Form OGC-1a

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

(Other instructions on reverse side)

CONFIDENTIAL

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. Lease Designation and Serial No.: U-57469

6. If Indian, Allottee or Tribe Name: N/A

7. Unit Agreement Name: N/A

8. Farm or Lease Name: Deadman Canyon Federal

9. Well No.: #2-20

10. Field and Pool, or Wildcat: ✓Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area: Sec. 20, T37S - R24E

1a. Type of Work: DRILL [XX] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well: Oil Well [XX] Gas Well [ ] Other Single Zone [XX] Multiple Zone [ ]

2. Name of Operator: Quintana Petroleum Corp. c/o PERMITCO INC. 303/322-7878

3. Address of Operator: P.O. Box 44065 Denver, CO 80201-4065

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 500' FSL and 780' FEL
At proposed prod. zone: SE SE

12. County or Parrish: San Juan 13. State: Utah

14. Distance in miles and direction from nearest town or post office*: 22 miles southeast of Blanding, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 500'

16. No. of acres in lease: 1,882.54

17. No. of acres assigned to this well: 40

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: 2000' approx.

19. Proposed depth: 6180'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 5606' GR

22. Approx. date work will start*: Immediately upon approva

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	9-5/8"	36#	2000'	760 sx or suffic. to circ to surf
8-3/4"	5-1/2"	15.5 & 17#	6180'	350 sx or suffic. to cover zones of interest.

Quintana Petroleum Corp. proposes to drill a well to 6180' to test the Ismay and Desert Creek formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

RECEIVED
JAN 05 1987
DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Signed: Lisa G. Green Title: Consultant for Quintana Petroleum Corp. Date: 1/2/87

(This space for Federal or State office use)

Permit No. 43-037-31303 Approval Date: APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

Approved by: Title:

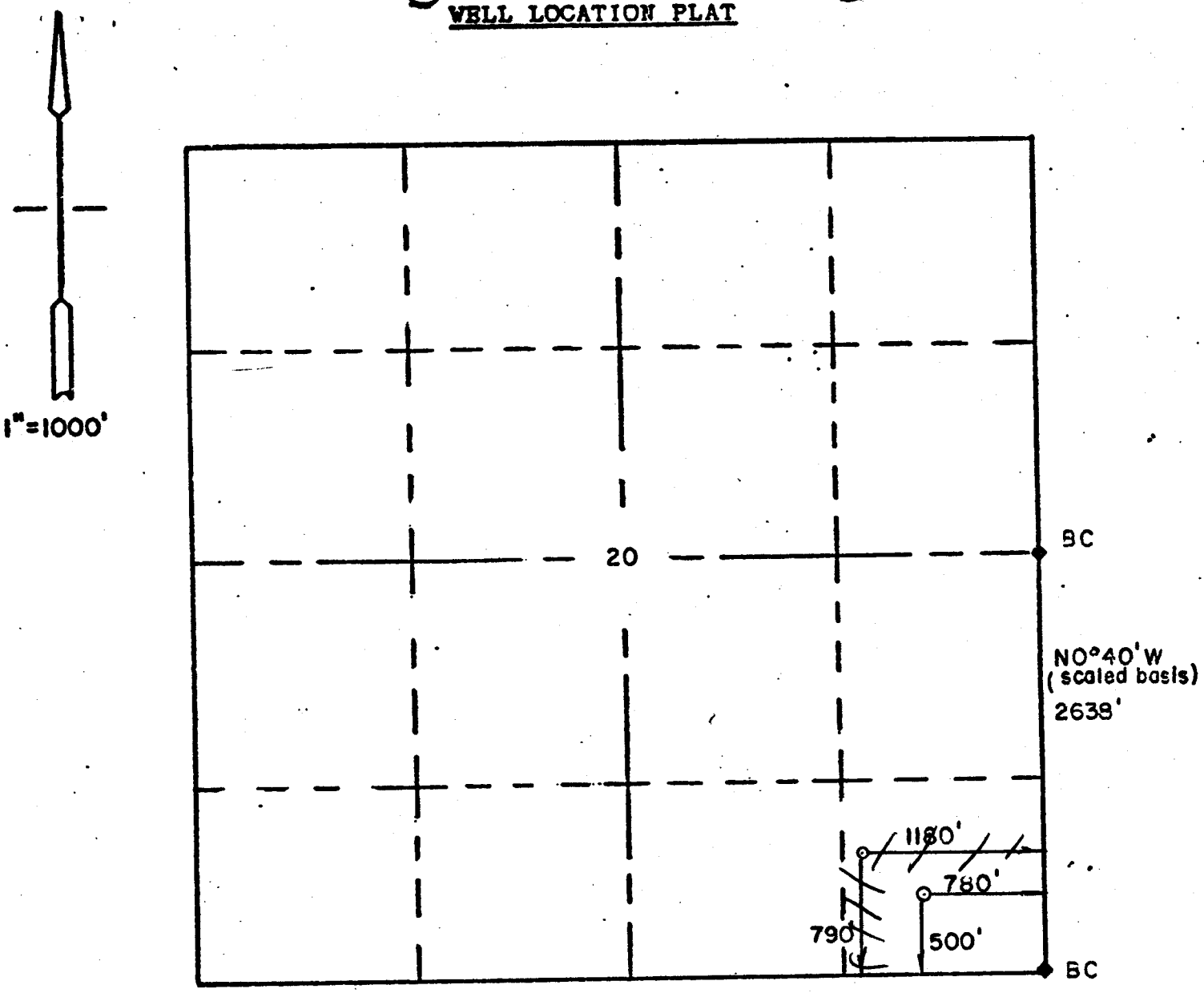
Conditions of approval, if any:

DATE: 1-8-87
BY: John R. Baza
WELL SPACING: 302

*See Instructions On Reverse Side

PLAT #1

WELL LOCATION PLAT



WELL LOCATION DESCRIPTION:

Quintana Petroleum
Deadman Canyon # 2-20
500' FSL & 780' FEL
Section 20, T.37 S., R.24 E., SLM
San Juan County, Utah
5606' grd. elevation
Alternate: 790' FSL & 1180' FEL, 5611' grd. elevation

The above plat is true and correct to my knowledge and belief.

12-28-'86

Gerald G. Huddleston, LS

REGISTERED LAND SURVEYOR
No. 5705
GERALD G. HUDDLESTON
STATE OF UTAH

QUINTANA PETROLEUM CORPORATION
1050 SEVENTEENTH STREET
SUITE 400
DENVER, COLORADO 80265
(303) 628-9211

December 31, 1986

Bureau of Land Management
P. O. Box 7
Monticello, UT 84535

Re: Deadman Canyon Federal #2-20
Deadman Canyon Federal #3-20
Deadman Canyon Federal #4-20
Section 20, T37S-R24E
San Juan County, Utah

Gentlemen:

This letter is to inform you that Permitco is authorized to act as Agent and to sign documents on behalf of Quintana Petroleum Corporation when necessary for filing county, state and federal permits including Onshore Order No. 1, Right-of-Way applications, etc. for the referenced wells.

It should be understood that Permitco is acting as Agent only in those matters stated above and is not responsible for drilling, completion, production or compliance with regulations.

Quintana Petroleum Corporation agrees to accept full responsibility for operations conducted in order to drill, complete and produce the above-mentioned wells.

Very truly yours,

E. Scott Kimbrough

E. Scott Kimbrough
District Operations Engineer

cc: Lisa Green, Permitco

jp

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JAN 05 198
DIVISION OF
OIL, GAS & MINING

ONSHORE OIL & GAS ORDER NO. 1

Approval of Operations on Onshore Federal and Indian Oil and Gas Leases

QUINTANA PETROLEUM CORP.
Deadman Canyon Federal #2-20
500' FSL and 780' FEL
Section 20, T37S - R24E
San Juan County, Utah

Prepared For:

QUINTANA PETROLEUM CORP.

By:

PERMITCO INC.
P.O. Box 44065
Denver, Colorado 80201-4065

Copies Sent To:

4 - BLM - Moab, Utah
1 - BLM - Monticello, Utah
1 - Div. of Oil, Gas & Mining - SLC, Utah
4 - Quintana Petroleum Corp. - Denver, CO

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Permitco Incorporated
A Petroleum Permitting Company

ONSHORE ORDER NO. 1
Quintana Petroleum Corp.
Deadman Canyon Federal 2-20
500' FSL and 780' FEL
Sec. 20, T37S - R24E
San Juan County, Utah

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

1. The surface formation and estimated formation tops to be encountered are as follows:

Formation	Depth	Subsea
Morrision	Surface	
Navajo	1010'	+4604'
Wingate	1583'	+4031'
Chinle	1853'	+3761'
Shinarump	2548'	+3066'
Hermosa	4692'	+ 922'
Ismay	5754'	- 140'
Hovenweep Shale	5959'	- 345'
Lower Ismay	5995'	- 381'
Gothic Shale	6039'	- 425'
Desert Creek	6064'	- 450'
Akah	6159'	- 545'
Salt	6177'	- 563'
T.D.	6180'	- 566'

2. The estimated depths at which oil, gas, water or other mineral bearing zones are expected to be encountered are as follows:

Substance	Formation	Anticipated Depth
Oil/Gas	Ismay	5754'
Oil/Gas	Desert Creek	6064'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth cased and cemented. All oil and gas shows will be tested to determine commercial potential.

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San Juan County, Utah

DRILLING PROGRAM

3. Pressure control equipment will consist of a 10", 3000# BOP. (See BOP Diagram attached.)

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. The San Juan Resource Area will be notified 1 day before pressure testing.

4. a. Casing

The proposed casing program is as follows:

Purpose	Depth	Hole Size	O.D.	Wt.	Grade	Type	New or Used
Conductor	0-40'	17-1/2"	16#	—			
Surface	0-2000'	12-1/4"	9-5/8"	36#	K-55	ST&C	New
Produc.	0-5400'	8-3/4"	5-1/2"	15.5#	K-55	LT&C	New
Produc.	5400-TD	8-3/4"	5-1/2"	17.0#	K-55	LT&C	New

b. Cement

The cementing program will be as follows:

Surface	Type and Amount
0-2000'	560 sx Lite w/2% $CaCl_2$ and 1/4# Cellophane flake, followed by 200 sx Class B w/2% $CaCl_2$ or sufficient to circulate to surface.

Production	Type and Amount
	350 sx Class H w/6% fluid loss additive or sufficient to cover zones of interest.

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DRILLING PROGRAM

Anticipated cement tops will be reported as to depth, not the expected number of sacks. The San Juan Resource Area will be notified one day prior to running casing strings and cement.

c. Auxiliary Equipment will be as follows:

1. Kelly cock.

2. Float above the bit.

3. A sub with a full opening valve will be on the floor when the kelly is not in use.

4. Monitoring of the system will be done visually.

5. Drilling fluid will be as follows:

Interval	Mud Type	Mud Wt.	Visc.	F/L	PH
0-2000'	Gel/Lime	8.4-8.6	28-35	N/C	-
2000-5000'	Gel/Lime	8.4-8.6	28-35	N/C	-
5000-T.D.	Dispersed	9.0-11.0	35-50	8-10cc	11.5

6. Coring, logging and testing programs are as follows:

a. No cores are anticipated.

b. The logging program will consist of the following: A Dual Induction or Dual Laterolog and BHC Sonic will be run from surface casing to T.D. A CNL Density will be run over zones of interest (minimum run) and a Dipmeter will be run (minimum run).

c. Drill Stem Tests will be run in the Ismay and Desert Creek formations if shows warrant.

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DRILLING PROGRAM

Whether the well is completed as a dry hole or as a producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. If requested, samples (cuttings, fluids, and/or gases) will be submitted when requested by the District Manager.

7. Abnormal conditions, bottom hole pressures and potential hazards.

a. The maximum bottom hole pressure to be expected is 3400 psi.

b. Quintana Petroleum Corp. plans to spud the Deadman Canyon Federal #2-20 immediately upon approval of this application and intends to complete the well within approximately one month after the well has reached T.D.

c. The operator will contact the San Juan Resource Area at 801/587-2141, 48 hours prior to beginning any dirt work on this location.

d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

e. The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours of spudding, reporting the spud date and time. The Sundry will be sent to the District Manager. If spudding is on a weekend or holiday, the Sundry will be submitted on the following regular work day.

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San Juan County, Utah

DRILLING PROGRAM

f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the Moab BLM District Office, P. O. Box 970, Moab, Utah 84532.

g. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

h. If a replacement rig is planned for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergencies, verbal approval can be given by the District Petroleum Engineer.

i. If the well is successfully completed for production, then the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five business days following the date on which the well is placed on production.

j. No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration.

k. Final abandonment will not be approved until surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the San Juan Area Manager or his representative, or the appropriate surface Manager.

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San Juan County, Utah

DRILLING PROGRAM

l. Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

m. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently beaded-on with a welding torch: Fed, Well number, location by 1/4 1/4 section, township and range, lease number.

n. A first production conference will be scheduled within 15 days after receipt of the first production notice. The San Juan Area Manager will schedule the conference.

o. The following may be inspected and/or witnessed:

1. The cementing and testing of surface casing, testing BOP's.

2. (Dry Hole) Setting and testing of surface casing shoe plug.

3. (Depleted Producer) The setting and testing of plugs across producing horizon and if applicable the surface casing shoe plug and/or annulus (casing to formation) squeeze jobs.

p. Notify the San Juan Resource area (Mike Wade) one day or (on a dry hole) as soon as possible prior to the above at (801) 587-2141 (W) or (801) 587-2026 (H). If unable to reach Mike, call Moab District Office - Greg Noble at (801) 259-6111 (W) or (801) 259-8811 (H).

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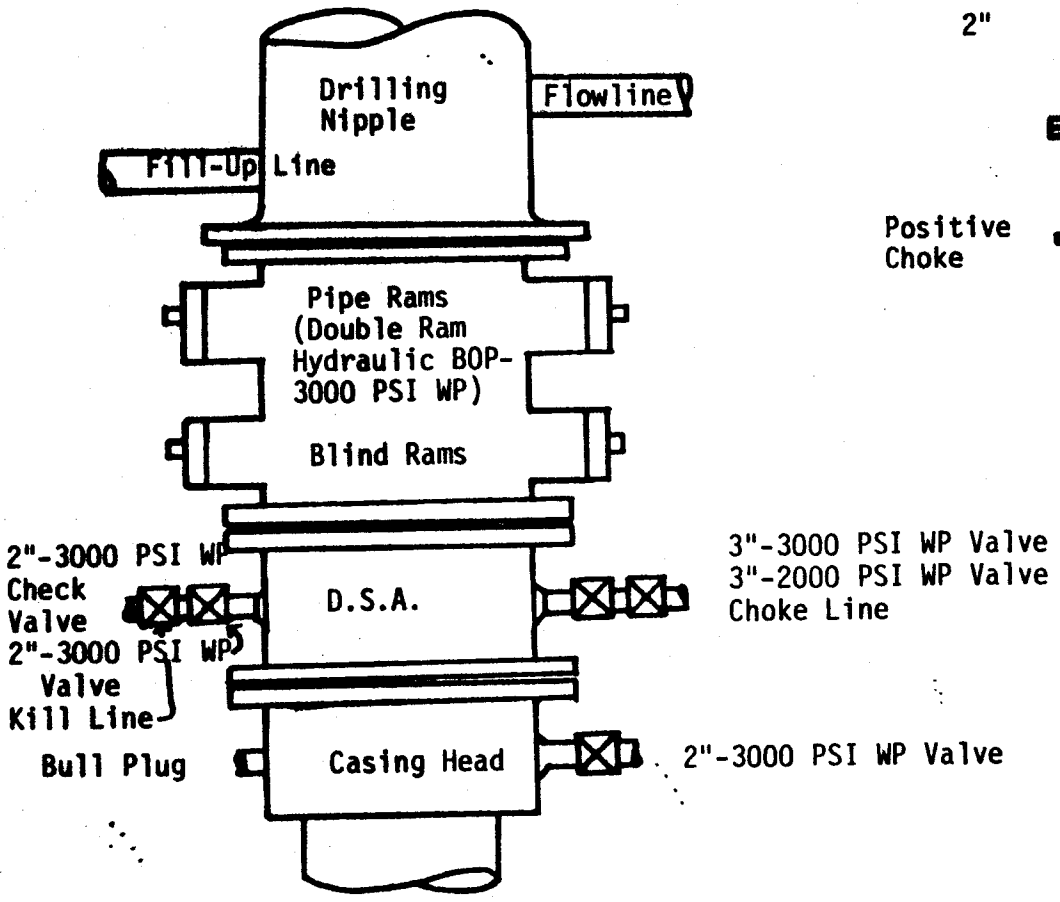
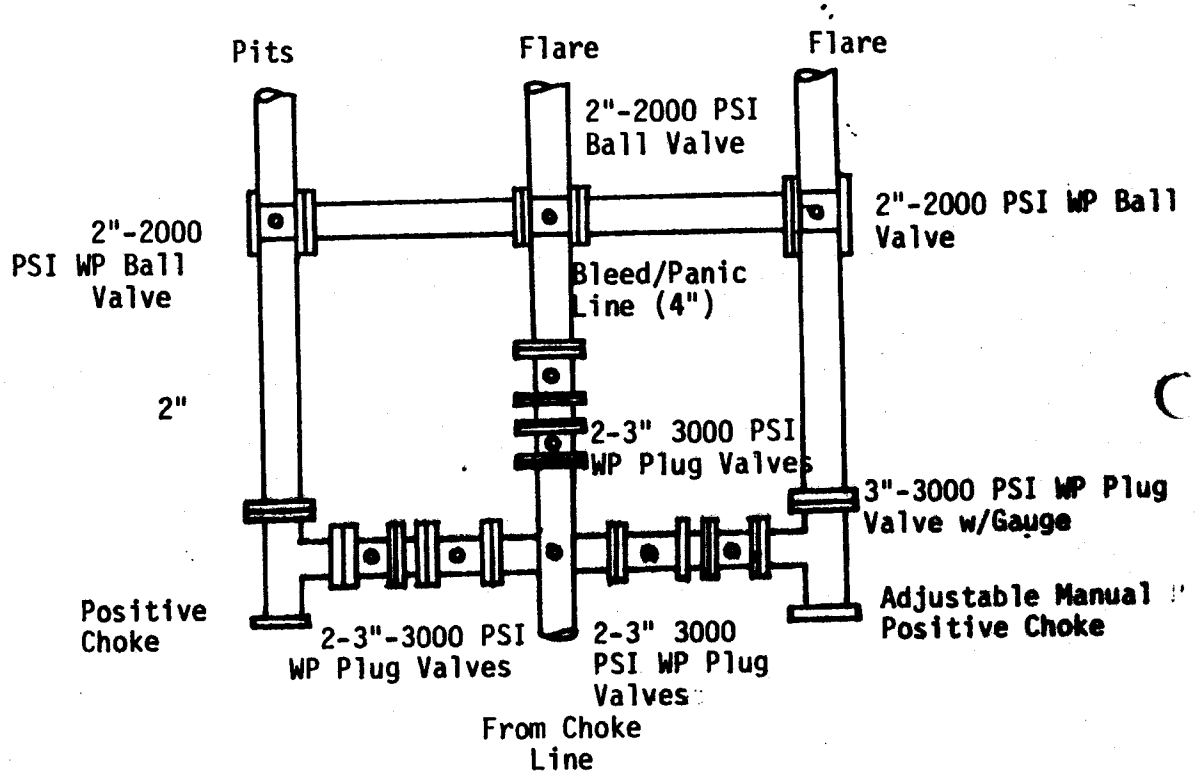


PLAIN VIEW-CHOKE MANIFOLD



The hydraulic clisng unit will be located in the parts house, 85' from the wellhead. Choke & bleed/panic lines will go to the pit and flare.

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San Juan County, Utah

SURFACE USE PLAN

ONSHORE OIL & GAS ORDER NO. 1

Thirteen Point Surface Use Plan

1. Existing Roads

   a. The proposed well site is located 22 miles east of Blanding, Utah.

   b. Directions to the location from Blanding are as follows:

      Go south on Highway 47 for 1.5 miles. Turn east onto the County Road and proceed 1.3 miles. Turn south on the County Road (Perkins #206) and proceed southwesterly for approximately 15 miles. Turn north onto County Road (Alkali #204) and proceed 2.7 miles. Turn right (east) onto the graded road leading to the Deadman Canyon #1-20 and proceed 3/4 mile Turn left and proceed north and east 1.0 miles. Before reaching the 1-20 wellpad, turn right and proceed on new access road (flagged) approximately 2300' to the location.

   c. The roads in the area are primarily county roads. See Maps #1 and #2.

   d. Improvement to the existing access will not be necessary.

   e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

   f. An encroachment permit will be obtained from the San Juan County Road Department, 801/587-2231, ext. 43.

2. Planned Access Roads

   a. The last 2300 feet will be new access. The road will be flat bladed initially during construction and upgraded if production is established.

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SURFACE USE PLAN

2. Planned Access Roads (cont.)

b. The maximum total disturbed width will be 30 feet.

c. The grade will be 4-5%.

d. Turnouts will be installed as needed. No culverts will be needed at this time.

e. Each fence which is crossed by the road will be braced as shown in Enclosure number 1, and tied off before cutting to prevent slackening of the wire. A gate or cattleguard which must be approved by BLM, will be installed.

f. If road construction cuts through natural topography which serves as a livestock barrier, a fence shall be constructed as shown in Enclusre 1.

g. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance by the San Juan Area Manager.

h. The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drilling rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.

i. The Class III Road Standards which ensure drainage control over the entire road through the use of natural, rolling topography; ditch turnouts; drainage dips; outsloping; crowning; low water crossings; and culverts will be determined at the appropriate field inspection.

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500' FSL and 780' FEL
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San Juan County, Utah

SURFACE USE PLAN

3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location. (See Map #3).

a. Water Wells - none

b. Injection or disposal wells - none

c. Producing Wells - one (#1-20 waiting on completion)

d. Drilling Wells - none

4. Location of Tank Batteries and Production Facilities.

a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be neutral to match the trees.

b. If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.

c. A central tank battery will be constructed at the Deadman Canyon Federal #1-20 location. If the Deadman Canyon Federal #2-20 is productive, a diagram will be submitted showing proposed facility layout.

d. All loading lines will be placed inside the berm surrounding the tank battery.

e. Any necessary pits will be properly fenced to prevent any wildlife entry. The production pit will be flagged overhead.

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SURFACE USE PLAN

4. Production Facilities (cont.)

f. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

g. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

h. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

i. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The San Juan Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Moab District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply

a. All water needed for drilling purposes will be obtained from a private source.

b. Water will be trucked to location over the county roads in the area.

c. No water well is to be drilled on this lease.

SURFACE USE PLAN

5. Water Supply (cont.)

d. Use of water for this operation will approved by obtaining a temporary use permit from the Utah State Engineer, 801/637-1303, and by receiving permission from the land owner of surface management agency to use the land containing the water source.

6. Source of Construction Material

a. Road surfacing material will be obtained from a commercial source. Pad construction material will be native.

b. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3. Construction material will be located on lease.

7. Methods for Handling Waste Disposal

a. The reserve pit will be lined with native clay or commercial bentonite sufficient to prevent seepage. At least half of the capacity will be in cut.

b. Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

c. A trash pit will be constructed near the mud tanks and dug at least six feet into solid, undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free. If a trash cage is used, its contents will be hauled to an approved landfill.

d. A burning permit is required for burning trash between May 1 and October 31. This will be obtained from the San Juan County Sheriff at (801) 587-2237 if operations should extend past May 1st.

SURFACE USE PLAN

7. Methods for Handling Waste Disposal (cont.)

e. Produced waste water will be confined to a lined pit for a period not to exceed 90 days after initial production. During the 90-day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

8. Ancillary Facilities

a. There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

9. Well Site Layout

a. See Diagram #1 for rig layout. See Diagram #2 for cross section of drill pad. See Diagram #3 for cuts and fills.

b. The location of mud tanks; reserve, burn and trash pits; pipe racks; living facilities and soil stockpiles will be shown on Diagram #1 and #3. The location will be laid out and constructed as discussed during the predrill conference.

c. The top 4-6 inches of soil material will be removed from the location and stockpiled separate from the trees on the south side of the location. Topsoil along the access will be reserved in place.

d. Access to the well pad will be from the west.

10. Reclamation

a. Immediately upon completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.

SURFACE USE PLAN

10. Reclamation of Surface (cont.)

b. The operator or his contractor will contact the San Juan Resource Area office in Monticello, Utah (801/587-2141) 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.

e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.

f. Water bars will be built as follows to control erosion.

Grade	Spacing
2%	Every 200 Feet
2-4%	Every 100 Feet
4-5%	Every 75 Feet
5+%	Every 50 Feet

g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.

4 lbs/acre Galleta (Hilaria jamesii)
6 lbs/acre Western wheatgrass (Agropyron smithii)
2 lbs/acre Desert bitterbrush (Purshia glandulosa)

h. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.

SURFACE USE PLAN

10. Reclamation of Surface (cont.)

i. The reserve pit and that portion of the location and access road not needed for production and production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

11. a. Surface Ownership

Federal

b. Mineral Ownership

Federal

12. Other Information

a. There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.

b. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

c. The dirt contractor will be provided with an approved copy of the surface use plan.

d. If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator that they are subject to prosecution for disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archeological sites will be done by a BLM approved archeologist only if damage occurs.

ONSHORE ORDER NO. 1
Quintana Petroleum Corp.
Deadman Canyon Federal 2-20
500' FSL and 780' FEL
Sec. 20, T37S - R24E
San Juan County, Utah

SURFACE USE PLAN

12. Other Information (cont.)

e. This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

f. An archeological study was conducted by LaPlata Archaeological Consultants. No significant cultural resources were found that cannot be avoided and clearance is recommended. A copy of this report will be submitted directly by LaPlata Archeological Consultants.

g. Your contact with the District Office is: Greg Nobel, 801/259-6111, P.O. Box 970, Moab, Utah 84532.

The Resource Area Manager's address is P.O. Box 7, Monticello, Utah 84532. Your contact is Richard McClure, 801/587-2141.

13. Lessee's or Operator's Representative and Certification

Permit Matters	Drilling & Completion Matters
Permitco Inc.	Quintana Petroleum Corp.
Lisa L. Green	1050-17th St.
P.O. Box 44065	Suite 400
Denver, CO 80201-4065	Denver, CO 80265
303/322-7878	303/628-9211 (W) -
	303/969-9468 (H) - Scott Kimbrough

Certification

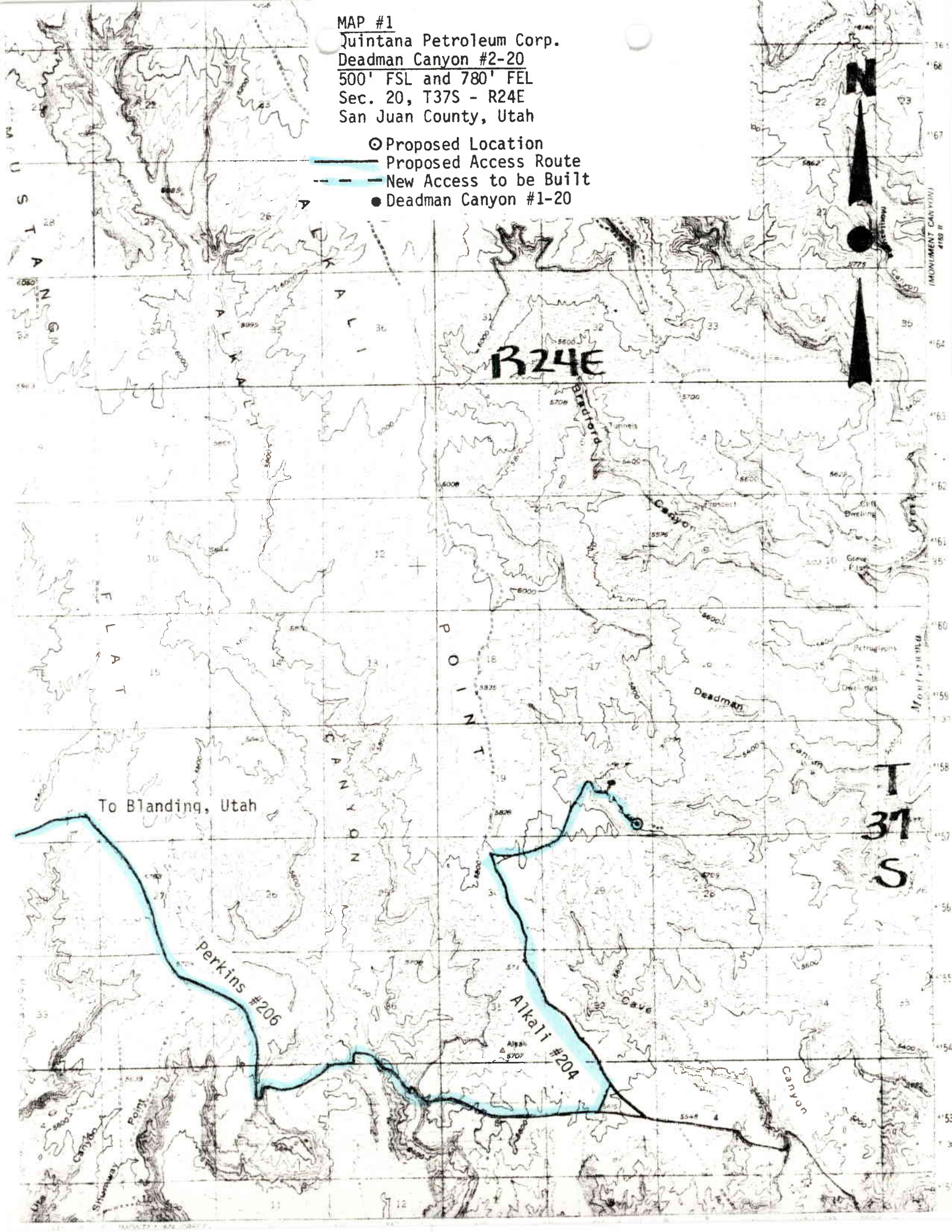
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Quintana Petroleum Corp. and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

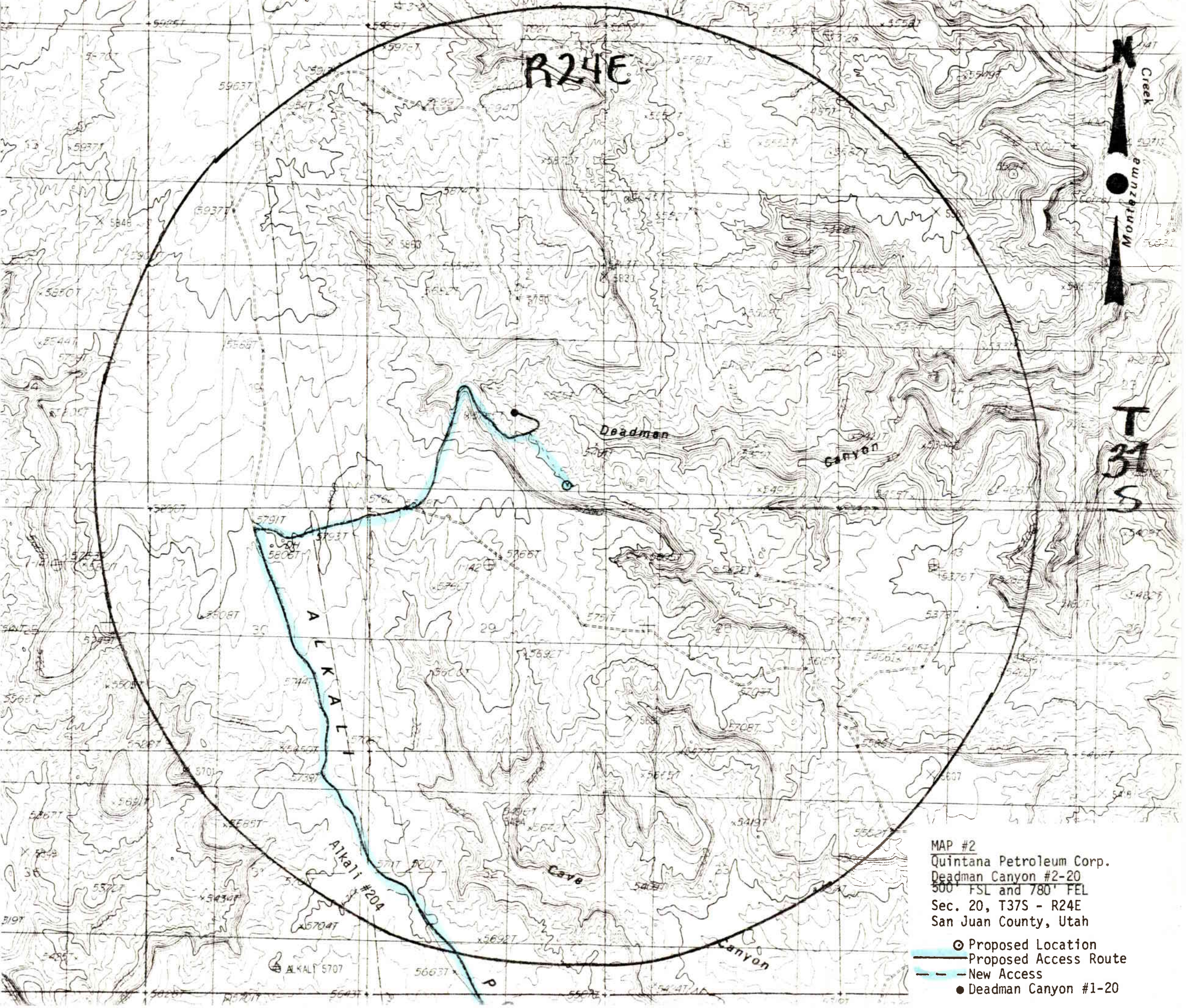
January 1, 1987
Date:

Lisa L. Green
Lisa L. Green - PERMITCO INC.
Authorized Agent for:
QUINTANA PETROLEUM CORP.

Permitco
Permitco Incorporated
A Petroleum Permitting Company

MAP #1
Quintana Petroleum Corp.
Deadman Canyon #2-20
500' FSL and 780' FEL
Sec. 20, T37S - R24E
San Juan County, Utah




R24E
T 37 S
N
Montezuma Creek
Deadman Canyon
ALKALI
Alkali #204
Cave Canyon
ALKALI 5707
MAP #2
Quintana Petroleum Corp.
Deadman Canyon #2-20
500' FSL and 780' FEL
Sec. 20, T37S - R24E
San Juan County, Utah
Proposed Location
Proposed Access Route
New Access
Deadman Canyon #1-20

MAP #3
Quintana Petroleum Corp.
Deadman Canyon #2-20
500' FSL and 780' FEL
Sec. 20, T37S - R24E
San Juan County, Utah

⊙ Proposed Location
● Deadman Canyon #1-20
(Waiting on Completion)

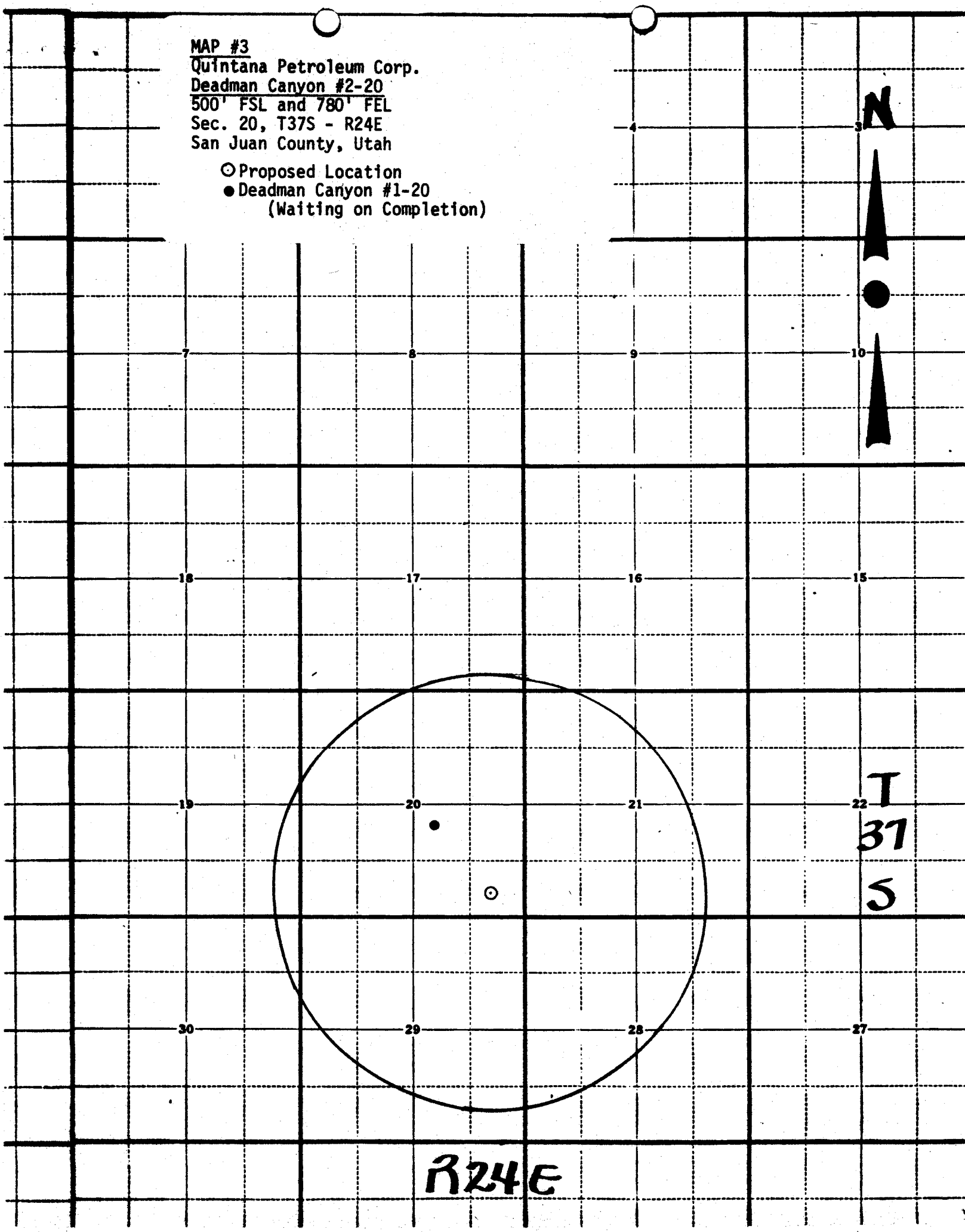
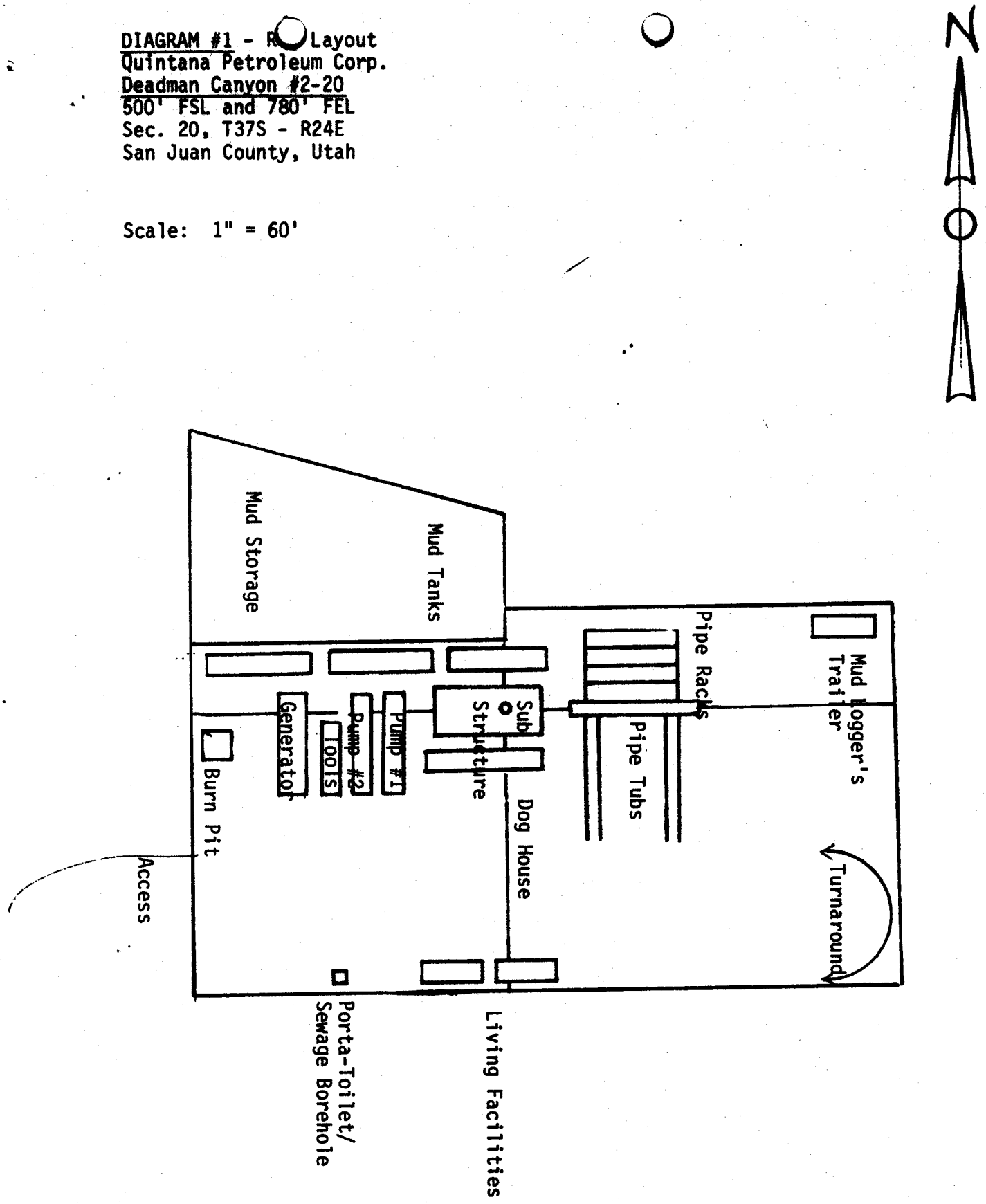


DIAGRAM #1 - R[illegible] Layout
Quintana Petroleum Corp.
Deadman Canyon #2-20
500' FSL and 780' FEL
Sec. 20, T37S - R24E
San Juan County, Utah

Scale: 1" = 60'

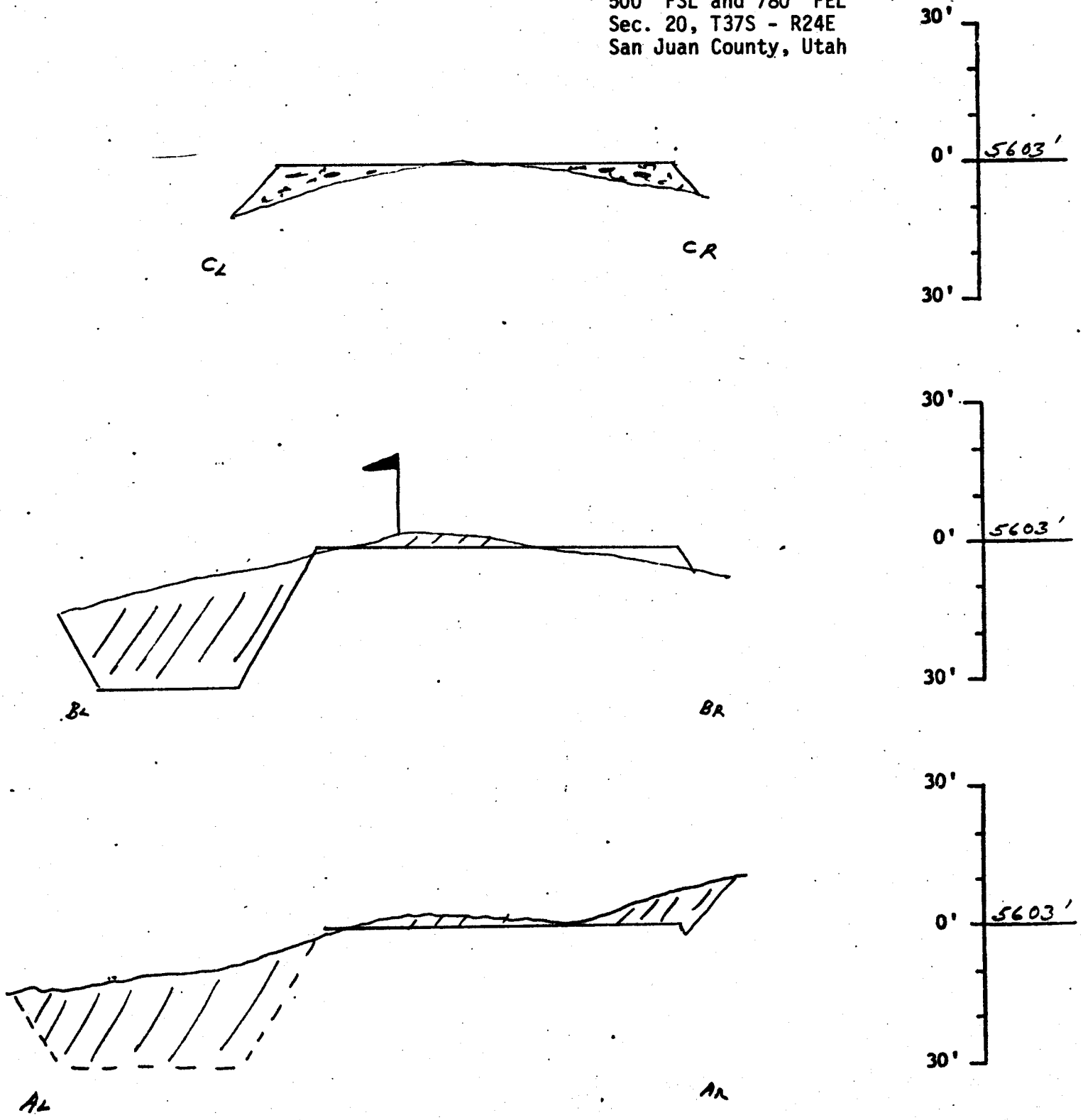


WELL PAD CROSS-SECTION

Cut /////
Fill

Scales: 1" = 60' H.
1"=30' V.

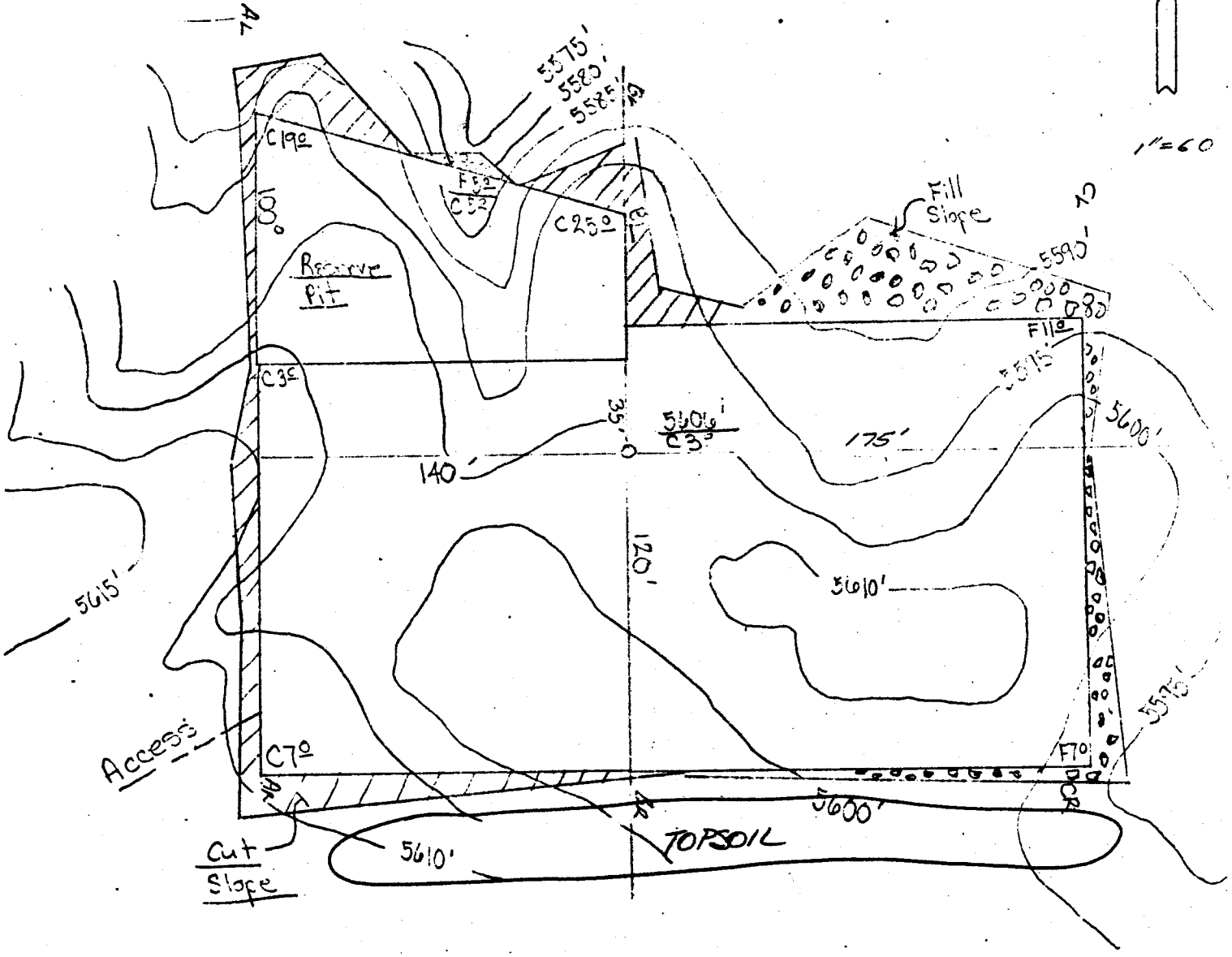
DIAGRAM #2
2-20 Deadman Canyon
Quintana Petroleum Corp.
500' FSL and 780' FEL
Sec. 20, T37S - R24E
San Juan County, Utah



WELL PAD PLAN VIEW

Well 2-20 DEADMAN CANYON

Diagram #3
Quintana Petroleum Corp.
Deadman Canyon #2-20
500' FSL and 780' FEL
Sec. 20, T37S - R24E
San Juan County, Utah



DUPLICATE COPIES OF WELL HISTORY INFORMATION

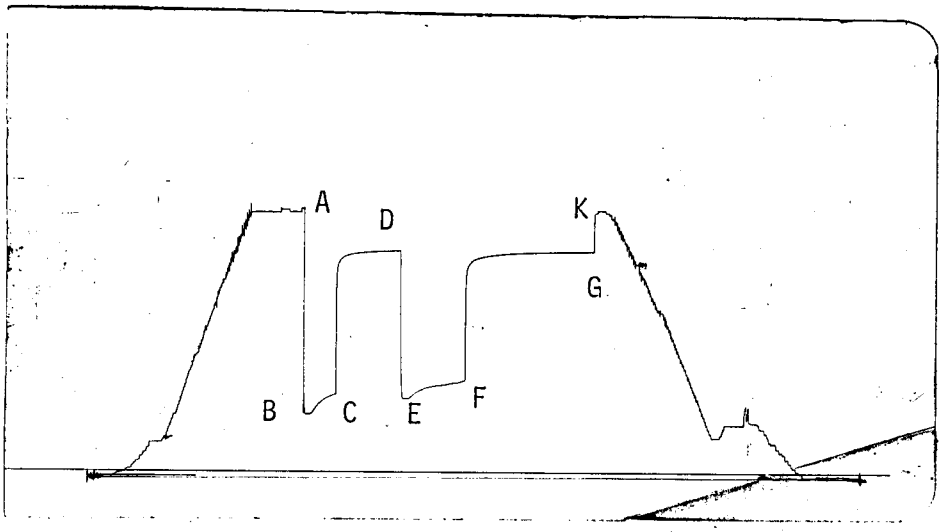
BAKER SERVICE TOOLS

TECHNICAL SERVICES, Security Life Bldg. • Suite 1350 • 1616 Glenarm • Denver, Colorado 80202 • Phone. (303) 573-8027

Contractor	Coleman	Top Choke	3/4"	Flow No. 1	30 Min.
Rig No.	#4	Bottom Choke	3/4"	Shut-in No. 1	60 Min.
Spot	--	Size Hole	8 3/4"	Flow No. 2	60 Min.
Sec.	20	Size Rat Hole	--	Shut-in No. 2	120 Min.
Twp.	37S	Size & Wt. D. P.	--	Flow No. 3	-- Min.
Rng.	24E	Size Wt. Pipe	--	Shut-in No. 3	-- Min.
Field	Cave Canyon	I. D. of D. C.	2¼"		
County	San Juan	Length of D. C.	710 ft	Bottom Hole Temp.	138°F
State	Utah	Total Depth	5815 ft	Mud Weight	9.5
Elevation	5619 ft	Interval Tested	5790-5815 ft	Gravity	--
Formation	Ismay	Type of Test	Bottom Hole Conventional	Viscosity	40

Tool opened @ 9:40 pm

Inside Recorder



PRD Make Kuster K-3
No. 7661 Cap. 4900 @ 5805'

Press		Corrected
Initial Hydrostatic	A	2852
Final Hydrostatic	K	2852
Initial Flow	B	686
Final Initial Flow	C	900
Initial Shut-in	D	2438
Second Initial Flow	E	849
Second Final Flow	F	1051
Second Shut-in	G	2427
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Farmington, NM
Our Tester: David Dolyniuk
Witnessed By: Ray Koehn

Operator: Quintana Petroleum
Address: 1050 17th Street, Suite 400, Denver, CO 80265
Well Name and No.: Deadman Canyon Federal #2-20
Ticket No.: 1319
Date: 2-3-87
DST No.: 1
No. Final Copies: 13

Did Well Flow – Gas Yes Oil No Water No Test was reverse circulated

RECOVERY IN PIPE:

820 ft. Condensate = 5.04 bbls.

Blow Description:

1st flow: Tool opened with 1 psi, gas to surface in 4 minutes, see gas volume report.

2nd flow: Tool opened with gas to surface in 1 minute, see gas volume report.

Comments: The test results indicate a mechanically successful test. The flow and shut-in curves suggest average permeability within the zone tested.

QUINTANA PETROLEUM
T#: 1
DEADMAN CANYON FEDERAL #2-20
5790 - 5815ft.

Location: 20-37S-24E
Test Type: BOTTOM HOLE CONVENTIONAL
Formation: ISMAY

Recorder Number: 7661
Recorder Depth: 5805 ft.

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P psi	PRESSURE psi	(T+dt)/dt ABSCISSA	PRESSURE SQUARED psi^2/10^6
A	INITIAL HYDROSTATIC	0.00		2852.0		
B	START OF 1st FLOW	0.00		686.0		
C	END OF 1st FLOW	30.00		900.0		
	1st SHUTIN PERIOD	0.00	0.0	900.0	0.0000	
		5.00	1457.0	2357.0	7.0000	
		10.00	1490.0	2390.0	4.0000	
		15.00	1505.0	2405.0	3.0000	
		20.00	1515.0	2415.0	2.5000	
		25.00	1521.0	2421.0	2.2000	
		30.00	1525.0	2425.0	2.0000	
		35.00	1530.0	2430.0	1.8571	
		40.00	1534.0	2434.0	1.7500*	
		45.00	1536.0	2436.0	1.6667*	
		50.00	1538.0	2438.0	1.6000*	
		55.00	1538.0	2438.0	1.5455*	
D	END OF 1st SHUTIN	60.00	1538.0	2438.0	1.5000*	
E	START OF 2nd FLOW	0.00		849.0		
F	END OF 2nd FLOW	60.00		1051.0		
	2nd SHUTIN PERIOD	0.00	0.0	1051.0	0.0000	
		5.00	1256.0	2307.0	19.0000	
		10.00	1300.0	2351.0	10.0000	
		15.00	1318.0	2369.0	7.0000	
		20.00	1331.0	2382.0	5.5000	
		25.00	1339.0	2390.0	4.6000	
		30.00	1347.0	2398.0	4.0000	
		35.00	1352.0	2403.0	3.5714	
		40.00	1358.0	2409.0	3.2500	
		45.00	1360.0	2411.0	3.0000	
		50.00	1362.0	2413.0	2.8000	
		55.00	1366.0	2417.0	2.6364*	
		60.00	1368.0	2419.0	2.5000*	
		65.00	1368.0	2419.0	2.3846*	
		70.00	1370.0	2421.0	2.2857*	
		75.00	1370.0	2421.0	2.2000*	
		80.00	1372.0	2423.0	2.1250*	
		85.00	1372.0	2423.0	2.0588*	
		90.00	1374.0	2425.0	2.0000*	

INTANA PETROLEUM
DST#: 1
DEADMAN CANYON FEDERAL #2-20
5790 - 5815ft.

Location: 20-37S-24E
Test Type: BOTTOM HOLE CONVENTIONAL
Formation: ISMAY

Recorder Number: 7661
Recorder Depth: 5805 ft.

TIME-PRESSURE LISTING

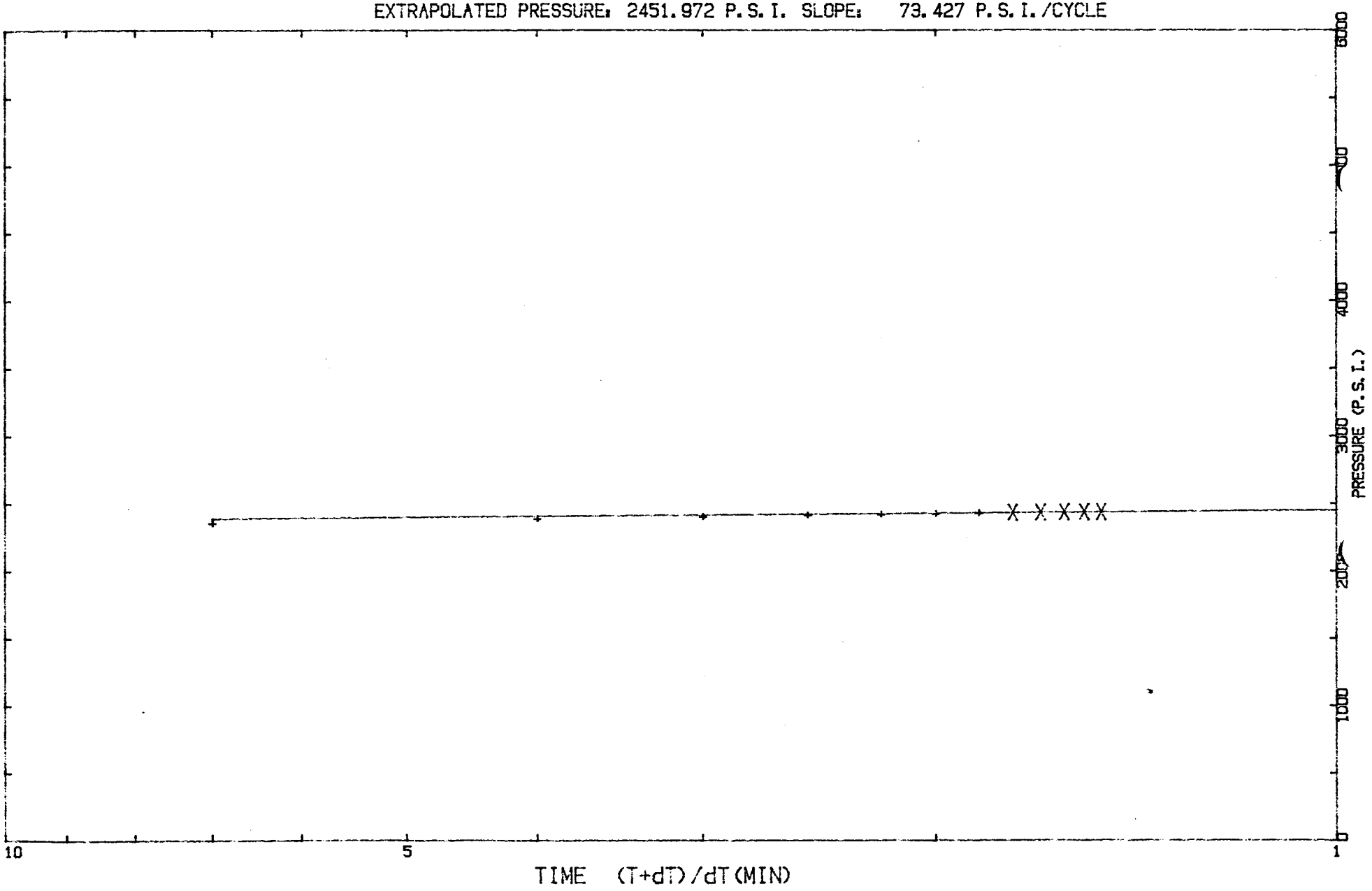
CHART LABEL	COMMENTS	TIME MIN.	DELTA P psi	PRESSURE psi	(T+dt)/dt ABSCISSA	PRESSURE SQUARED psi^2/10^6
		95.00	1374.0	2425.0	1.9474*	
		100.00	1374.0	2425.0	1.9000*	
		105.00	1374.0	2425.0	1.8571*	
		110.00	1376.0	2427.0	1.8182*	
		115.00	1376.0	2427.0	1.7826*	
G	END OF 2nd SHUTIN	120.00	1376.0	2427.0	1.7500*	
Q	FINAL HYDROSTATIC	0.00		2852.0		

* VALUES USED FOR EXTRAPOLATIONS

1st SHUT-IN:
HORNER EXTRAPOLATION 2451.97 PSI
HORNER SLOPE 73.43 psi/cycle

2nd SHUT-IN
HORNER EXTRAPOLATION 2441.71 PSI
HORNER SLOPE 58.73 psi/cycle

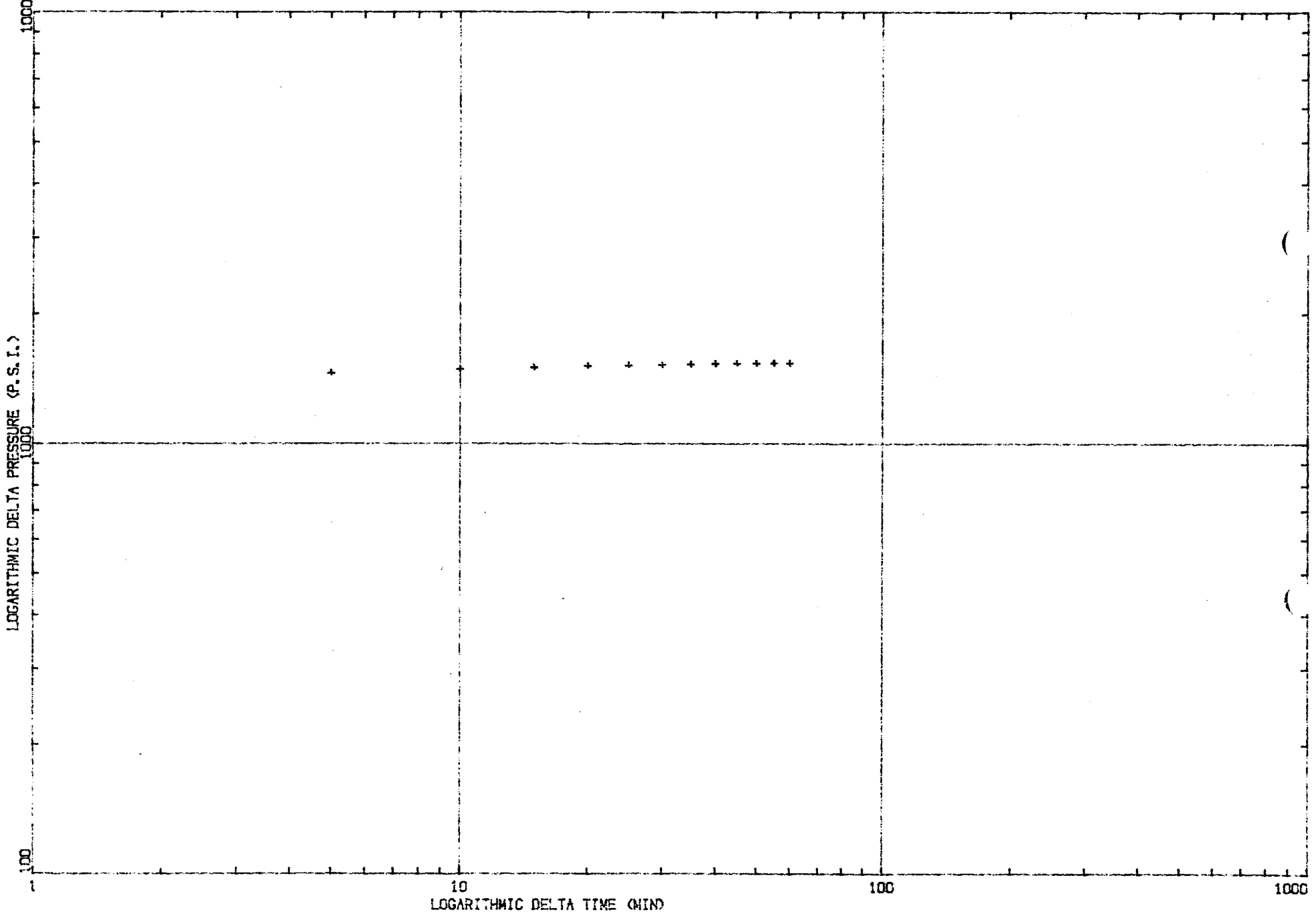
OPERATOR: QUINTANA PETROLEUM
WELL NAME: DEADMAN CANYON FEDERAL #2-20
LOCATION: 20-37S-24E DST #: 1
FIRST SHUT-IN
RECORDER: 7661 DEPTH: 5805 ft.
EXTRAPOLATED PRESSURE: 2451.972 P.S.I. SLOPE: 73.427 P.S.I./CYCLE



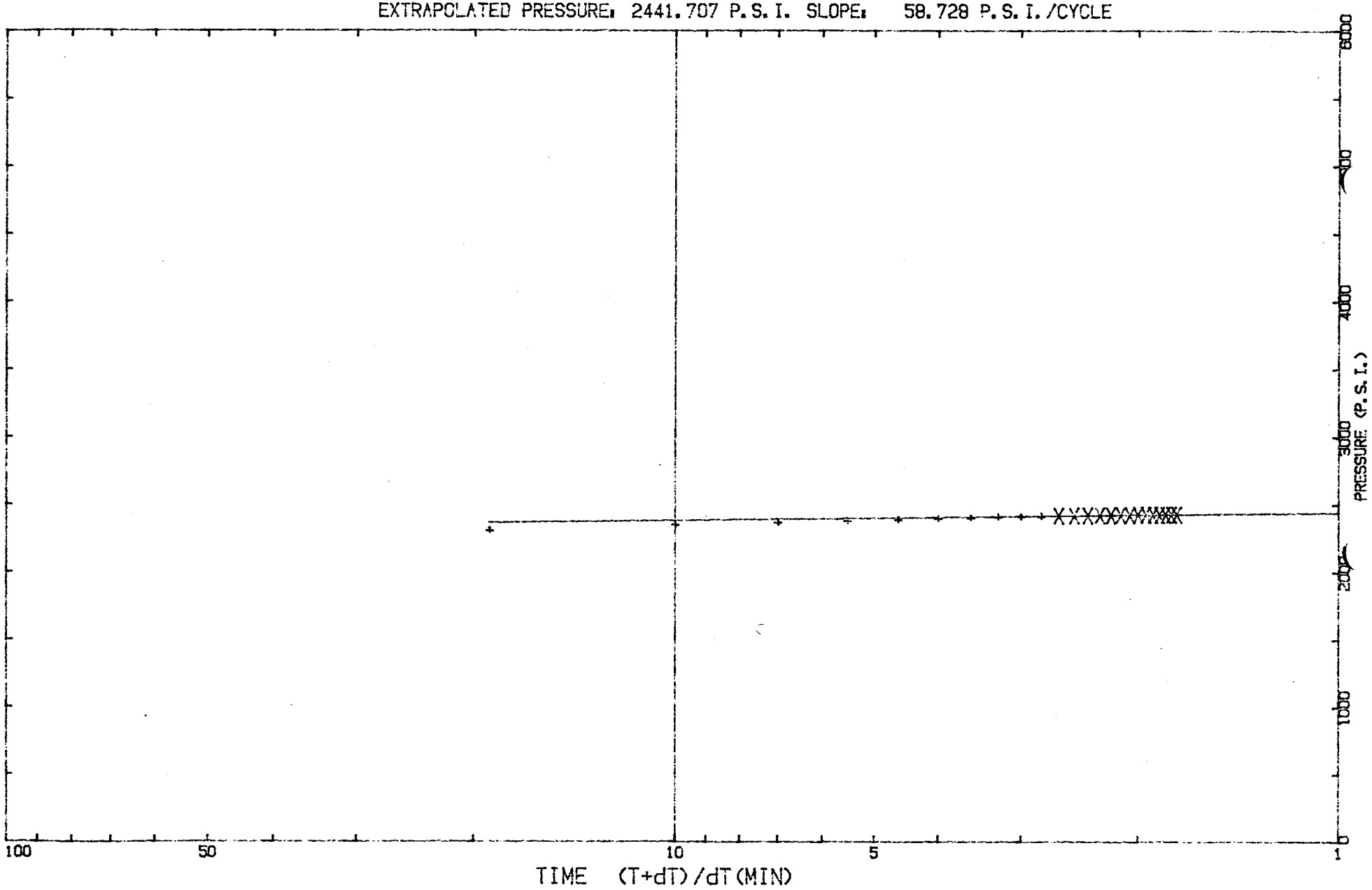
OPERATOR: QUINTANA PETROLEUM
LOCATION: 20-37S-24E
RECORDER: 7661

WELL NAME: DEADMAN CANYON FEDERAL #2-20
DST #: 1
DEPTH: 5805 ft.

FIRST SHUT-IN



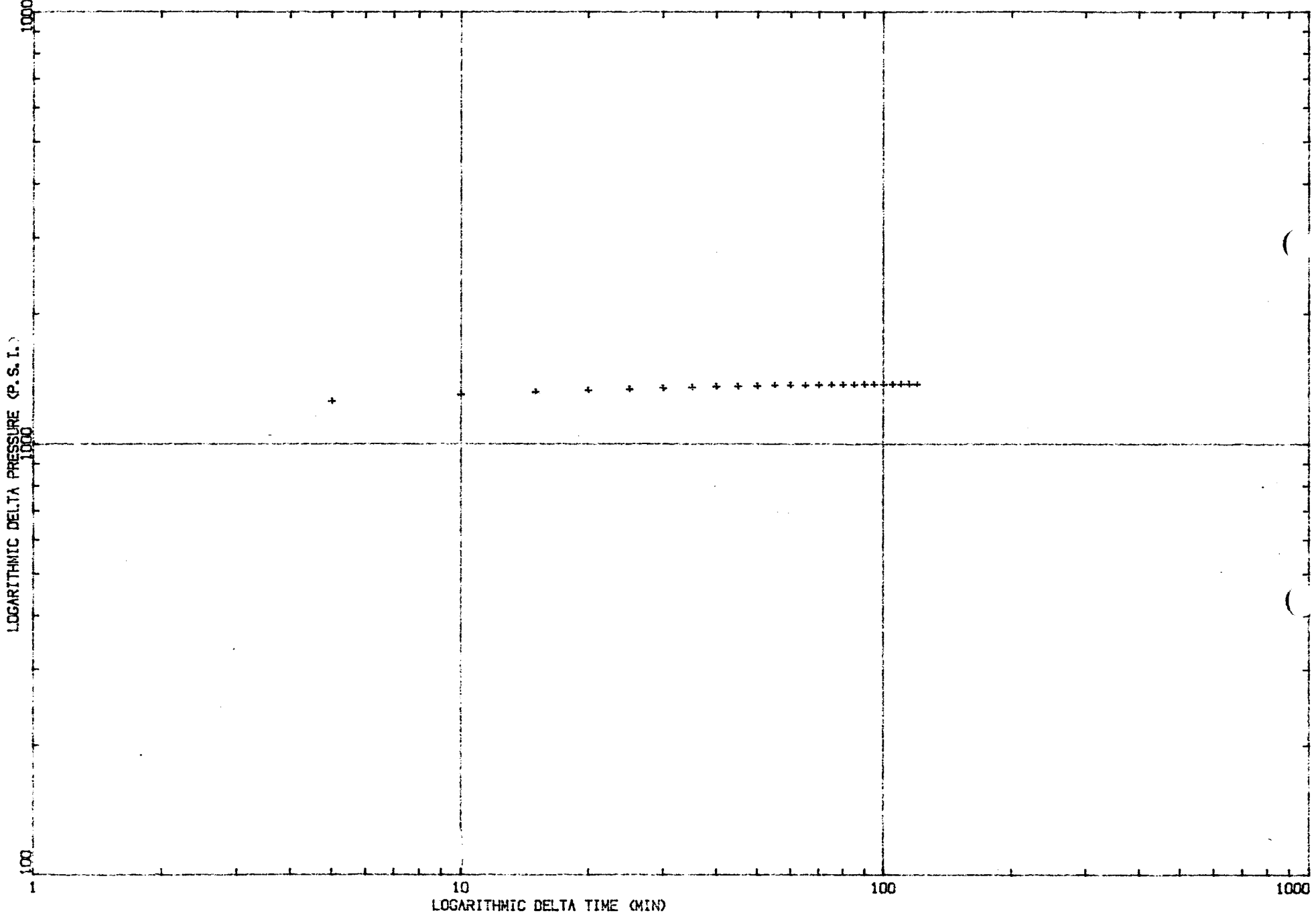
OPERATOR: QUINTANA PETROLEUM
WELL NAME: DEADMAN CANYON FEDERAL #2-20
LOCATION: 20-37S-24E DST #: 1
SECOND SHUT-IN
RECORDER: 7661 DEPTH: 5805 ft.
EXTRAPOLATED PRESSURE: 2441.707 P.S.I. SLOPE: 58.728 P.S.I./CYCLE



OPERATOR: QUINTANA PETROLEUM
LOCATION: 20-37S-24E
RECORDER: 7661

WELL NAME: DEADMAN CANYON FEDERAL #2-20
DST #: 1
DEPTH: 5805 ft.

SECOND SHUT-IN



MONTANA PETROLEUM
DST#: 1
DEADMAN CANYON FEDERAL #2-20
5790 - 5815ft.

Location: 20-37S-24E
Test Type: BOTTOM HOLE CONVENTIONAL
Formation: ISMAY

Recorder Number: 7661
Recorder Depth: 5805 ft.

SAMPLE DATA

SAMPLE CHAMBER:

Capacity of sample chamber	2100	cc
Volume of sample.....	100	cc
Pressure in sampler.....	50	psig
Where sampler was drained...	on location	

Sampler contained:

MUD 100 cc

RESISTIVITY DATA:

Top.....:	58 API GRAVITY CONDENSATE @ 65F
Middle.....:	58 API GRAVITY CONDENSATE @ 65F
Bottom.....:	58 API GRAVITY CONDENSATE @ 65F
Sampler.....:	
Mud pit.....:	9000 PPM NACL
Make-up Water..:	6900 PPM NACL

QUINTANA PETROLEUM
DST#: 1
DEADMAN CANYON FEDERAL #2-20
5790 - 5815ft.

GAS MEASUREMENTS
****

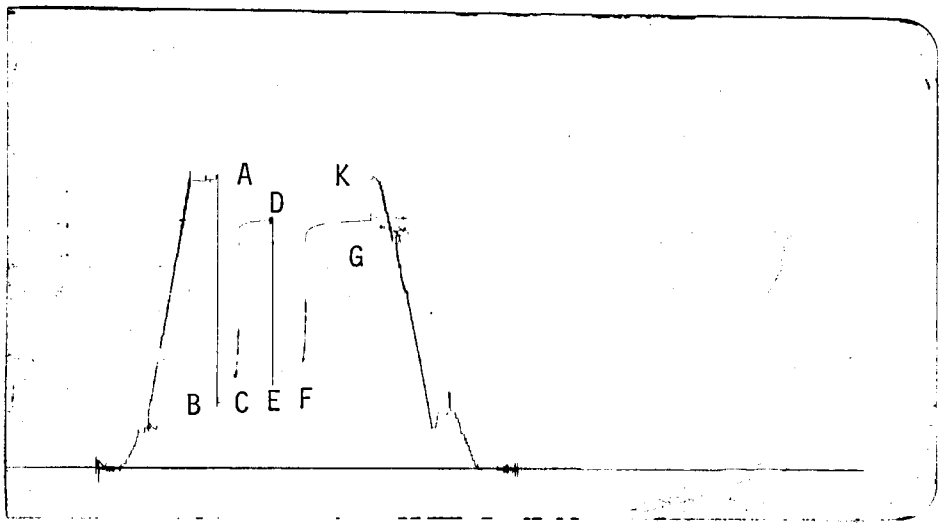
Device: FLOOR MANIFOLD Riser: 0.0 in. Bomb #:
Sent to:

FLOW #	TIME (min)	READING(psi)	CHOKE (in)	Mcf/d
1	4	80.0	.750	1377.4
1	5	100.0	.750	1667.4
1	10	160.0	.750	2537.0
1	15	200.0	.750	3117.0
1	20	235.0	.750	3625.0
1	25	250.0	.750	3842.0
1	30	260.0	.750	3987.0
2	1	40.0	.750	797.5
2	4	120.0	.750	1957.0
2	5	140.0	.750	2247.0
2	10	220.0	.750	3407.0
2	15	245.0	.750	3770.0
2	20	260.0	.750	3987.0
2	25	270.0	.750	4132.0
2	30	280.0	.750	4277.0
2	35	282.0	.750	4310.0
2	40	285.0	.750	4350.0
2	45	285.0	.750	4350.0
2	50	285.0	.750	4350.0
2	55	288.0	.750	4395.0
2	60	295.0	.750	4495.0

INTANA PETROLEUM
DST#: 1
DEADMAN CANYON FEDERAL #2-20
5790 - 5815ft.

PRESSURE RECORDER NUMBER : 24645

DEPTH : 5768.00ft. LOCATION : INSIDE
TYPE : K-3 CAPACITY : 4450.00psi

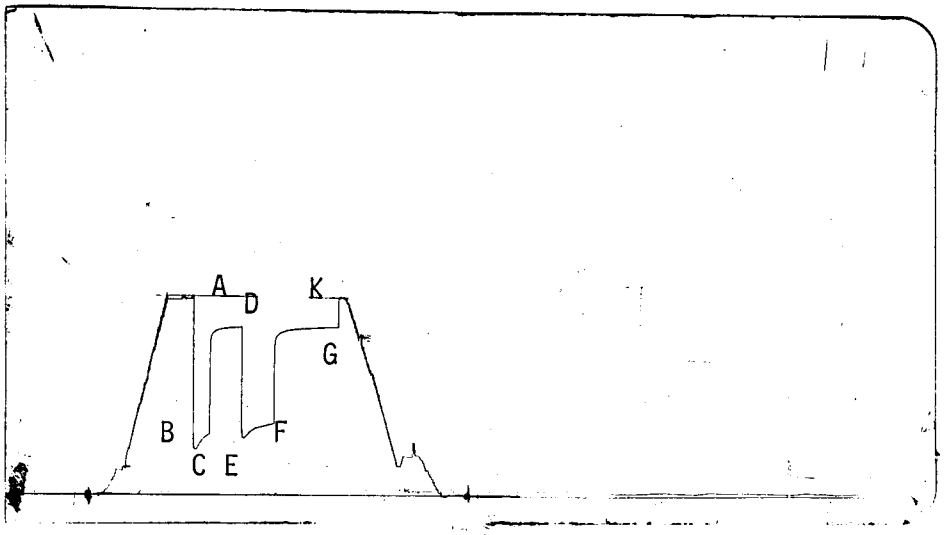


	PRESSURE psi
A)Initial Hydro :	2833.0
B)1st Flow Start:	650.0
C)1st Flow End :	898.0
D)END 1st Shutin:	2432.0
E)2nd Flow Start:	819.0
F)2nd Flow End :	1046.0
G)END 2nd Shutin:	2442.0
Q)Final Hydro. :	2833.0

TEST TIMES(MIN)
1st FLOW : 30
SHUTIN: 60
2nd FLOW : 60
SHUTIN: 120

PRESSURE RECORDER NUMBER : 24519

DEPTH : 5812.00ft. LOCATION : OUTSIDE
TYPE : K-3 CAPACITY : 6650.00psi



	PRESSURE psi
A)Initial Hydro :	2839.0
B)1st Flow Start:	656.0
C)1st Flow End :	879.0
D)END 1st Shutin:	2410.0
E)2nd Flow Start:	829.0
F)2nd Flow End :	1030.0
G)END 2nd Shutin:	2416.0
Q)Final Hydro. :	2839.0

~~CONFIDENTIAL~~

011324 - APD

112301 - Off Conf.

OPERATOR Quintana Petroleum Corp. DATE 1-7-87

WELL NAME Deadman Canyon Fed 2-20

SEC SE SE 20 T 37S R 24E COUNTY San Juan

43-037-31303	Fed.
API NUMBER	TYPE OF LEASE

CHECK OFF:

- [✓] PLAT
- [✓] BOND
- [✓] NEAREST WELL
- [✓] LEASE
- [✓] FIELD
- [✓] POTASH OR OIL SHALE

PROCESSING COMMENTS:
No other wells within 920'
Need water permit

APPROVAL LETTER:

SPACING: [ ] 203 _____ UNIT [✓] 302

[ ] _____ CAUSE NO. & DATE [ ] 302.1

STIPULATIONS:
1- Water

0218T

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

January 8, 1987

Quintana Petroleum Corporation
c/o Permitco Inc.
P. O. Box 44065
Denver, Colorado 80201-4065

Gentlemen:

Re: Deadman Canyon Federal 2-20 - SE SE Sec. 20, T. 37S, R. 24E
500' FSL, 780' FEL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule 302, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.

2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.

3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.

4. Compliance with the requirements and regulations of Rule 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.

5. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable State and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 533-6163.

6. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31303.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals
D. R. Nielson
8159T

012102

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-57469

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: Deadman Canyon Federal

9. WELL NO.: #2-20

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 20, T37S - R24E

1a. TYPE OF WORK: DRILL [XX] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [XX] GAS WELL [ ] OTHER SINGLE ZONE [XX] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Quintana Petroleum Corp. c/o PERMITCO INC. 303/322-7878

3. ADDRESS OF OPERATOR: P.O. Box 44065 Denver, CO 80201-4065

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 500' FSL and 780' FEL
At proposed prod. zone: SE SE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 22 miles southeast of Blanding, Utah

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 500'

16. NO. OF ACRES IN LEASE: 1,882.54

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 2000' approx.

19. PROPOSED DEPTH: 6180'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5606' GR

22. APPROX. DATE WORK WILL START*: Immediately upon approval

23. PROPOSED CASING AND CEMENTING PROGRAM

RECEIVED
JAN 13 1987
DIVISION OF
OIL, GAS & MINING

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED [signature] TITLE Consultant for Quintana Petroleum Corp. DATE 1/2/87

(This space for Federal or State office use)

PERMIT NO. 43-037-31303 APPROVAL DATE

APPROVED BY Kenneth V. Rhea TITLE Acting DISTRICT MANAGER DATE JAN 12 1987

CONDITIONS OF APPROVAL, IF ANY:

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

CONDITIONS OF APPROVAL ATTACHED

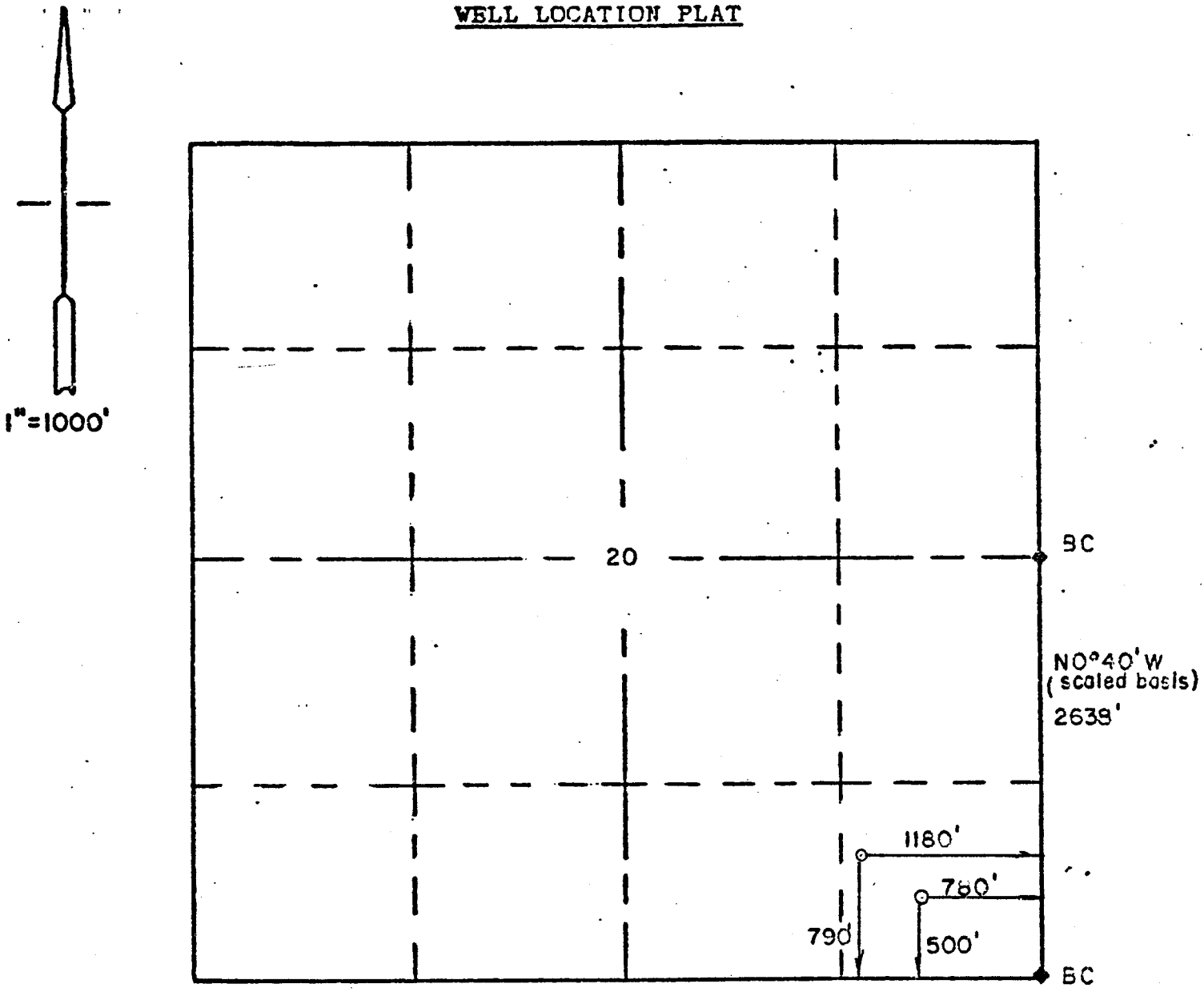
*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DOGM

PLAT #1

WELL LOCATION PLAT



WELL LOCATION DESCRIPTION:

Quintana Petroleum
Deadman Canyon # 2-20
500' FSL & 780' FEL
Section 20, T.37 S., R.24 E., SLM
San Juan County, Utah
5606' grd. elevation
Alternate: 790' FSL & 1180' FEL, 5611' grd. elevation

The above plat is true and correct to my knowledge and belief.

12-28-'86

Gerald G. Huddleston, LS

REGISTERED LAND SURVEYOR
No. 5705
GERALD G. HUDDLESTON
STATE OF UTAH

Quintana Petroleum Corporation
Well No. Deadman Canyon Federal 2-20
Sec. 20, T. 37 S., R. 24 E.
San Juan County, Utah
Lease U-57469

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Water Permit
09-1500
(T62247)

013001

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION API #43-037-31303

NAME OF COMPANY: QUINTANA PETROLEUM CORPORATION

WELL NAME: DEADMAN CANYON FEDERAL 2-20

SECTION SE SE 20 TOWNSHIP 37S RANGE 24E COUNTY San Juan

DRILLING CONTRACTOR Coleman

RIG # 4

SPUDDED: DATE 1-24-87

TIME

HOW Rotary

DRILLING WILL COMMENCE

REPORTED BY Jeannie Williams

TELEPHONE # (303) 628-9211

DATE 1-30-87 SIGNED AS

Form DOGC-4

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
533-5771

State Lease No. 012906
Federal Lease No. U-57469
Indian Lease No.
Fee & Pat.

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY San Juan FIELD/LEASE Deadman Canyon Fed.

The following is a correct report of operations and production (including drilling and producing wells) for the month of: January, 19 87.

Agent's Address: 1050 - 17th Street, Suite 400
Denver, Colorado 80265

Phone No. (303)628-9211

Company QUINTANA PETROLEUM CORPORATION
Signed J. Williams
Title Production Technician

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	API NUMBER/REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
Sec. 20 SE SE	37S	24E	#2-20							43-037-31303 SPUD 1/24/87. Now drilling at 1159' (a/o 1/26/87).

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GAS: (MCF)
Sold
Flared/Vented
Used On/Off Lease

OIL or CONDENSATE: (To be reported in Barrels)
On hand at beginning of month
Produced during month
Sold during month
Unavoidably lost
Reason:
On hand at end of month

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. *THIS REPORT MUST BE FILED IN DUPLICATE.*

Note: The API number must be listed on each well.

FILING FOR WATER IN THE STATE OF UTAH

030708

#21655

Rec. by SA
Fee Paid $ 15.00
Platted
Microfilmed
Roll #

APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

WATER USER CLAIM NO. 09 - 1500 APPLICATION NO. T62247

1. **PRIORITY OF RIGHT:** January 15, 1987 **FILING DATE:** January 15, 1987

2. **OWNER INFORMATION**
   Name: Quintana Petroleum Corporation(303-628-9211)
   Address: 1050 17th Street, Denver, CO 80265
   The land is not owned by the applicant(s), see explanatory.

3. **QUANTITY OF WATER:** 8.0 acre feet (Ac. Ft.)

4. **SOURCE:** Artesian Well **DRAINAGE:** San Juan River
   POINT(S) OF DIVERSION: **COUNTY:** San Juan
   (1) N. 531 feet, W. 1810 feet, from the W¼ Corner of Section 01, Township 38 S, Range 24 E, SLB&M
   Description of Diverting Works: inch diameter well.
   COMMON DESCRIPTION: 8 mi. No. Hatch Trading Post

5. **NATURE AND PERIOD OF USE**
   Oil Exploration From January 15 to January 15.

6. **PURPOSE AND EXTENT OF USE**
   Oil Exploratio: Oil well drilling

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EXPLANATORY

The land is owned by Richard and Debra Gore. A letter of permission will be sent to your office by Mrs. Gore.

This application is being submitted for the following wells:

√1) Deadman Canyon Federal #2-20 (SE4SE4): 43-037-31303 POW/15mY
N. 500 ft. & W. 780 ft. from SE Cor. Sec. 20, T37S, R24E,SLB&M.

√2) Deadman Canyon Federal #3-20 (SE4NW4): 43-037-31304 TA
S. 2380 ft. & E. 2180 ft. from NW Cor. Sec. 20, T37S, R24E, SLB&M.

3) Deadman Canyon Federal #4-20 (NW4NW4): 43-037-31305 Drl. Cont.
S. 660 ft. & E. 690 ft. from NW Cor. Sec. 20, T37S, R24E, SLB&M.

4) Deadman Canyon Federal #1-28 (NW4NW4): 43-037-31306 POW/15mY Cont.
S. 500 ft. & E. 500 ft. from NW Cor. Sec. 28, T37S, R24E, SLB&M.

The estimated period of time to drill each oil well is approx. 25 days. Spud date is pending approval of the Permit to Drill submitted to the BLM, however, we anticipate spudding the first location on approx. Jan. 20, 1987. The last location will be spud approx. April 1, 1987 due to a deer winter range stipulation imposed by the BLM.

Appropriate

****

The applicant hereby acknowledges he/they are a citizen(s) of the United States or intends to become such a citizen.

****

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

****

The undersigned hereby acknowledges that even though he/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained therein, at the time of filing, rests with the applicant(s).

_____

Signature of Applicant

STATE ENGINEER'S ENDORSEMENT

WATER RIGHT NUMBER: 09 - 1500 APPLICATION NO. T62247

1. January 15, 1987 Application received by MP.

2. January 16, 1987 Application designated for APPROVAL by MP and SG.

3. Comments:

Conditions:
This application is hereby APPROVED, dated January 30, 1987, subject to prior rights and this application will expire on January 30, 1988.

Robert L. Morgan, P.E.
State Engineer

FILING FOR WATER IN THE STATE OF UTAH

#21729
Rec. by SA
Fee Paid $ 15.00
Platted
Microfilmed
Roll #

APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

WATER USER CLAIM NO. 09 - 1504 APPLICATION NO. T62267

1. **PRIORITY OF RIGHT:** February 2, 1987 **FILING DATE:** February 2, 1987

2. **OWNER INFORMATION**
   Name: Quintana Petroleum Corporation
   phone (303) 628-9211
   Address: 1050-17th Street, Denver, CO 80265

   The land is not owned by the applicant(s), see explanatory.

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OIL, GAS & MINING

3. **QUANTITY OF WATER:** 8.0 acre feet (Ac. Ft.)

4. **SOURCE:** Two Springs **DRAINAGE:** San Juan River
   POINT(S) OF DIVERSION: **COUNTY:** San Juan
   (1) S. 2485 feet, E. 2125 feet, from the NW Corner of Section 20, Township 37 S, Range 24 E, SLB&M
   (2) S. 2510 feet, E. 2150 feet, from the NW Corner of Section 20, Township 37 S, Range 24 E, SLB&M
   Description of Diverting Works: Tank trucks
   COMMON DESCRIPTION: 10.5 mi. SE of Blanding

5. **NATURE AND PERIOD OF USE**
   Oil Exploration From January 15 to January 15.

6. **PURPOSE AND EXTENT OF USE**
   Oil Exploratio: Oil and gas drilling operations.

7. **PLACE OF USE**
   The water is used in all or parts of each of the following legal subdivisions.

			North East Quarter				North West Quarter				South West Quarter				South East Quarter			
TOWN	RANGE	SEC	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼
37 S	24 E	20						X		X								X
37 S	24 E	28						X										

All locations in Salt Lake Base and Meridian

EXPLANATORY

The land is owned by the BLM - Leased by Quintana for drilling purposes. Water may be supplemented by trucking water from pond in San Juan County located: See 09-1500 (T62247). N. 531 ft. & W. 1810 ft. from NW Cor. Sec. 1, T38S, R24E, SLB&M. Land owned by Richard & Debra Gore - Permit #7854.
Drillsite locations are as follows:
Deadman Canyon Fed. #2-20:
N. 500 ft. & W. 780 ft. from SE Cor. Sec. 20, T37S, R24E, SLB&M.
Deadman Canyon Fed. #3-20:

Appropriate

S. 2380 ft. & E. 2180 ft. from NW Cor. Sec. 20, T37S, R24E, SLB&M.
Deadman Canyon Fed. #4-20:
S. 1100 ft. & E. 820 ft. from NW Cor. Sec. 20, T37S, R24E, SLB&M.
Deadman Canyon Fed. #1-28:
S. 500 ft. & E. 500 ft. from NW Cor. Sec. 28, T37S, R24E, SLB&M.

****

The applicant hereby acknowledges he/they are a citizen(s) of the United States or intends to become such a citizen.

****

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

****

The undersigned hereby acknowledges that even though he/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained therein, at the time of filing, rests with the applicant(s).

_____
Signature of Applicant

STATE ENGINEER'S ENDORSEMENT

WATER RIGHT NUMBER: 09 - 1504 APPLICATION NO. T62267

1. February 2, 1987 Application received by MP.

2. February 2, 1987 Application designated for APPROVAL by MP and SG.

3. Comments:

Conditions:
This application is hereby APPROVED, dated February 18, 1987, subject to prior rights and this application will expire on February 18, 1988.

Robert L. Morgan, P.E.
State Engineer

Form DOGC-4

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
533-5771

State Lease No. .....
Federal Lease No. U-57469
Indian Lease No. .....
Fee & Pat. .....

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY San Juan FIELD/LEASE Deadman Canyon Fed.

The following is a correct report of operations and production (including drilling and producing wells) for the month of: FEBRUARY, 19 87.

Agent's Address 1050 - 17th Street, Suite 400
Denver, Colorado 80265
Phone No. (303)628-9211

Company QUINTANA PETROLEUM CORPORATION
Signed [signature]
Title Production Technician

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	API NUMBER/REMARKS (If drilling, depth; if shut down, caus date and result of test for gasoline content of gas)
ec. 20 SE SE	37S	24E	#2-20							43-037-31303 Drilled to 6182' (T.D.). Now swab and flow testing.

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GAS: (MCF)
Sold .....
Flared/Vented .....
Used On/Off Lease .....

OIL or CONDENSATE: (To be reported in Barrels)
On hand at beginning of month .....
Produced during month .....
Sold during month .....
Unavoidably lost .....
Reason: .....
On hand at end of month .....

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. *THIS REPORT MUST BE FILED IN DUPLICATE.*

Note: The API number must be listed on each well.

Form DOGC-4

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
533-5771

State Lease No. .....
Federal Lease No. U-57469
Indian Lease No. .....
Fee & Pat. .....

030229

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY San Juan FIELD/LEASE Deadman Canyon Fed.

The following is a correct report of operations and production (including drilling and producing wells) for the month of: FEBRUARY, 1987.

Agent's Address 1050 - 17th Street, Suite 400
Denver, Colorado 80265

Phone No. (303)628-9211

Company QUINTANA PETROLEUM CORPORATION
Signed [signature]
Title Production Technician

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	API NUMBER/REMARKS (If drilling, depth; if shut down, caus date and result of test for gasoline content of gas)
Sec. 20 SE SE	37S	24E	#2-20							43-037-31303 Drilled to 6182' (T.D.). Now swab and flow testing.

CONFIDENTIAL

RECEIVED
FEB 27 1987
DIVISION OF
OIL, GAS & MINING

GAS: (MCF)
Sold .....
Flared/Vented .....
Used On/Off Lease .....

OIL or CONDENSATE: (To be reported in Barrels)
On hand at beginning of month .....
Produced during month .....
Sold during month .....
Unavoidably lost .....
Reason: .....
On hand at end of month .....

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. *THIS REPORT MUST BE FILED IN DUPLICATE.*

Note: The API number must be listed on each well.

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DIVISION OF
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DEADMAN CANYON #2-20

QUINTANA PETROLEUM CORPORATION
Sec 20, T37S, R24E
SAN JUAN COUNTY, UTAH

TABLE OF CONTENTS

DEADMAN CANYON #2-20
SEC 20, T37S, R24E
SAN JUAN COUNTY, UTAH

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WELL DATA SUMMARY

WELL NAME:	DEADMAN CANYON #2-20
OPERATOR:	QUINTANA PETROLEUM CORPORATION
LOCATION:	SEC 20, T37S, R24E
COUNTY:	SAN JUAN COUNTY
STATE:	UTAH
AREA:	CAVE CANYON
DRILLING CONTRACTOR:	COLEMAN RIG #4
DRILLING ENGINEER:	RAY KOEHN
WELL SITE GEOLOGY:	DOUG REDMOND
ELEVATION: GL	5605'
KB	5619'
DEPTH LOGGED:	4600' to 6183'
DATE LOGGED:	1-28-87 to 2-05-87
TOTAL DEPTH:	6183'
HOLE SIZE:	12 1/4" to 2013', 8 3/4 " to 6183'
CASING PROGRAM:	9 5/8" to 2013', 5 1/2" to 6183'
D.S.T.:	BAKER SERVICE TOOLS, LYNES
MUDLOGGING:	ROCKY MOUNTAIN GEO-ENGINEERING
MECHANICAL LOGS:	WELEX GILLETTE WYOMING
WELL STATUS:	AWAITING COMPLETION

DAILY DRILLING SUMMARY

1987 DATE	DEPTH	PROGRESS	HOURS DRLG.	MUD WEIGHT	VISC.	W.L.	PH	ACTIVITY
1-26	2013'							Set surface casing
1-31	4363'	943'	22	8.3	28	H_2O		Drilling
2-01	5019'	656'	17 1/2	8.3	29	H_2O		Drilling
2-02	5543'	524'	23	9.2+	38	93.6	9.5	Drilling
2-03	5815'	272'	8	9.5	42	10.5	11.5	Drilling
2-04	5990'	175'	8 1/2	9.8	44	9.8	12	Drilling
2-05	6182'	182'	9	9.8	44	10.1	11.5	E-logs

FORMATION TOPS

ELEVATION: GL 5605'
KB 5619'

FORMATION	PROGNOSIS	ESTIMATED TOP	E-LOG	SUBSEA
NAVAJO	1010'			
WINGATE	1583'			
CHINLE	1853'	1893'	1894'	3725'
SHINARUMP	2548'			
HERMOSA	4692'	4690'	4692'	927'
UPPER ISMAY	5754'	5781'	5777'	- 158'
HOVENWEEP SHALE	5959'	5977'	5970'	- 351'
LOWER ISMAY	5995'	5998'	6000'	- 381'
GOTHIC SHALE	6039'	6044'	6042'	- 423'
DESERT CREEK	6064'	6076'	6069'	- 450'
AKAH	6159'	6165'	6161'	- 542'
SALT	6177'			

DEVIATION SURVEY

DEPTH	SURVEY	CHANGE
2013'	2°	
4820'	1°	+ 1°
5317'	3/4°	- 1/4°
5815'	3/4°	0
6183'	1 1/4°	+ 1/2°

BIT RECORD

OIL CO.: QUINTANA PETROLEUM CORPORATION WELL NAME: DEADMAN CANYON LOCATION NO.: 2-20

CONTRACTOR: COLEMAN DRILLING CO. RIG #: 4 AREA: CAVE CANYON COUNTY: SAN JUAN

RIG MAKE & MODEL: N-46 SKYTOP BREWSTER SURF CSG: 9 5/8" to 2013' INT. CSG: PROD CSG: 5 1/2" to 6083'

NO. 1 PUMP, MAKE & MODEL: OPI 700 HDL SPUD DATE: 1-24-87

NO. 2 PUMP, MAKE & MODEL: WILSON 600 T.D. DATE: 2-04-87

BIT NO.	SIZE	TYPE MAKE	JETS	BIT SER.N.	DEPTH OUT	FEET	HOURS	ACCUM HOURS	WOB	RPM	VERT DEV.	PUMP PRESS	MUD WT	MUD VIS	BIT.COND T	BIT.COND B	BIT.COND G	REMARKS
1	20	OWY	14-14-14	RR	48	48	2 1/2	2 1/2	ALL	120		700	water					
2	12 1/4	F-3	14-14-14	RR	1828	1780	34 1/2	37	45	80	1 1/2	1400	water					
3	12 1/4	F-3	13-13-13	RR	2013	137	5 1/2	42 1/2	45	80	1 3/4	1400	water					
4	8 3/4	F-27	10-10-B	EZ2491	4966	2953	65 1/2	108	45	70	1	1700	water					
5	8 3/4	V-537C	10-10-B	15561	5815	849			45	65	3/4	2000	9.6	40				
6	8 3/4	F-3	10-11-B	RR	6182	367	25		45	65	1 1/4	1500	9.8	50				

SHOW REPORT

WELL NAME: DEADMAN CANYON 2-20

AREA: CAVE CANYON COUNTY: SAN JUAN STATE: UTAH

SHOW No.: 1

FOOTAGE - from 5800' to 5815' Net ftg 15'

	DT	TOTAL GAS	CHROMATOGRAPH BREAKDOWN $C_{1(ppm)}$	C_2	C_3	C_{4I}	C_{4N}	other C_5
BEFORE	4.5	140	6,175	3,145	1,710	196	500	
DURING	1	930	100,700	80,750	41,800	3,920	8,730	masked by attenuation
AFTER	1	300	38,760	12,920	6,650	392	1,250	276

LITHOLOGY TYPE & DESCRIPTION: LS m brn,ltgy,wh,tan,vf-c micxln,foss,sm earthy app,tr anhy,dolo,v fri,frm

POROSITY Est.: 10-12% intrxln,tr vuggy

STAIN DESCRIPTION: m brn-dk asphaltic, live oil stn

FLUORESCENCE and CUT DESCRIPTION: bri yel-blu to grn-blu fluo, tr fast bri yel cut,pred pale,diffuse yel-blu

REMARKS: Upper Ismay first carbonate 5781'. Very poor samples due to anhydrite contamination

SHOW REPORT

WELL NAME: DEADMAN CANYON 2-20

AREA: CAVE CANYON **COUNTY:** SAN JUAN **STATE:** UTAH

SHOW No.: 2

FOOTAGE - from 5815' **to** 5877' **Net ftg** 62'

	DT	TOTAL GAS	CHROMATOGRAPH BREAKDOWN C_1 (ppm)	C_2	C_3	C_{4I}	C_{4N}	other C_5
BEFORE	1	300	58,760	12,920	6,650	392	1,250	276
DURING	1-1.5	670	90,000	38,000	22,500	9,000		TR
AFTER	1-2.5	150	17,000	8,000	7,000	3,500		TR

LITHOLOGY TYPE & DESCRIPTION: LS wh,ltgy,tan,crypt,vf-med micxln,chalky ip, foss,occ anhy,dolomitized bwn streaks, sucr,fri,frm

POROSITY Est.: 10-12%

STAIN DESCRIPTION: even brn-dk brn along porosity

FLUORESCENCE and CUT DESCRIPTION: bri yel to yel-blu fluo, 50-60% in sample, strmg mlky yel cut

REMARKS: C_{4I} and C_{4N} are added together, small trace of C_5

DRILL STEM TEST REPORT

WELL NAME: DEADMAN CANYON #2-20 DATE: 2-03-87

AREA: CAVE CANYON COUNTY: SAN JUAN STATE: UTAH

WITNESS: KOEHN, REDMOND

TEST NUMBER: 1 INTERVAL TESTED: 5790-5815'

TEST COMPANY AND TYPE OF TEST: LYNES, CONVENTIONAL DOUBLE PACKER

INITIAL FLOW: Open with 1#, GTS 3 min 80 PSI through 3/4" choke, 120# in 7 min., 140 PSI 9 min., 200# in 15 min., 235# in 20 min.- 250 # in 25 min., shut in with 260# at 30 min.

FINAL FLOW: Open with 1# on 3/4" choke, 40# in 1 min., 80# in 3 min., 200# in 9 min., 240# in 13 min., 260# in 20 min., 270# in 25 min., 280# in 30 min., 285# in 40 min., 285# in 50 min., shut in with 295# at 60 min.

	TIME	TOP CHART	BOTTOM CHART
IH:		2898	3089
IF:	30	696-900	633-853
ISI:	60	2462	2396
FF:	60	869-1053	798-1005
FSI:	120	2454	2390
FH:		2878	3075

BHT: 138 °

RECOVERY: 820'(8.2 BBLS) of oil, 58 Gravity at 65° condensate

SAMPLE CHAMBER: _____ cfg and 100 cc of oil and mud at 50 PSI

RESISTIVITIES: mud at pit .75 at 65°, 7500 ppm make up water 1 at 65°, 5000 ppm

REMARKS: Sample chamber malfunctioned

Final shut in gauged at 4.5 million+ cubic feet gas/day

GEOLOGIC SUMMARY

Deadman Canyon 2-20 offsets the discovery well, Deadman Canyon 1-20, to the southeast following the ancient shoreline trend. The drilling program was very similar to the 1-20 well. Surface casing was set to 2013', to protect the Navajo and Wingate Sandstone aquifers uphole. No major drilling problems were encountered. A two man mud-logging unit was used to evaluate samples and hydrocarbon shows from the Hermosa to TD. Electric logs included a dual laterolog, neutron, density, acoustic porosity logs, and stratigraphic dipmeter.

HERMOSA: 4692' - 5777'

This interval consisted of interbedded shales, siltstones, and limestones. Primarily it was clastics of continental deposition near the top, grading to marine limestones and marlstones closer to the base of the interval. A large amount of siliceous limestone and chert were drilled in the lower 500' of interval. No economic hydrocarbon shows were found.

UPPER ISMAY: 5777' - 5970'

This top was marked by 8' of anhydrite that was unmistakeable in the samples. This well had a carbonate section containing hydrocarbons that looked very similar to the productive interval of the discovery well. The carbonate was primarily a very clean, white, fossiliferous limestone with dolomitized streaks throughout. The porosity was both intercrystalline and vuggy. The vugs occasionally exhibited moldic forms of the leached fossil remains. The dolomitic streaks seemed to closely align with the highest density porosity on the E-logs. The drill stem test ran on 15' of the porous upper pay seened to confirm a gas cap. Analysis of samples taken should verify this assumption. It was obvious from the results that the interval will produce a great amount of gas and oil. The permiability was very high both horizontally and vertically. E-logs looked very good, showing high porosity and resistivity. At 5862', the F_R droped enough to cause concern about it being wet. The samples contained a large percentage of fluorescence. The strength and brightness of the chlorothene cut gradually diminished from there to 5892', where a dolomitic marlstone separated the two carbonate intervals. The interval from 5862' to 5892' will likely produce oil with some water. The carbonate below 5892' was porous, although tighter looking, and the shows were much weaker. Without doubt, the interval was water wet and non-productive.

HOVENWEEP SHALE AND LOWER ISMAY: 5970' - 6042'

The Hovenweep Shale was black, carbonaceous, calcareous, and firm. Following it was the Lower Ismay carbonate and massive anhydrite interval. No economic shows were found in the interval.

GOTHIC SHALE AND DESERT CREEK: 6042' - 6161'

The Gothic Shale was similar to the Hovenweep Shale. It was black, highly carbonaceous, firm, and gaseous. The Desert Creek top was chosen on a slight drilling penetration increase in a crystalline dolomitic siltstone. The sequence contained an anhydrite following the siltstone.

This was above another dolomitic mudstone and a second anhydrite. The second anhydrite was from the Lower Bench of the Desert Creek, and is usually considered the productive interval where the carbonate has been built up and dolomitized. A show was logged at this point, however no economic importance could be seen. The well was finished without touching the Paradox salt, to keep the drilling mud salinity down as low as possible.

SAMPLE DESCRIPTIONS

4600-4630		Very Poor Sample, drilling with water
	60%	Siltstone - brown, red, calcareous, micaceous, firm, brittle
	20%	Limestone - white, light gray, medium gray, red, cryptocrystalline, very finely microcrystalline, chalky, shaly, firm, medium hard, dense
	20%	Sandstone - white, clear, brown, orange, very fine grain, calcaroeus, arkosic, silty, angular, unconsolidated
4630-4660	60%	Limestone - light to medium gray, white, very finely microcrystalline, cryptocrystalline, sandy, firm, dense
	30%	Siltstone - brown, red, medium gray, calcareous, micaceous, brittle, platy, firm
	10%	Sandstone - as above, very fine to medium grain, arkosic, unconsolidated
4660-4690	80%	Siltstone - dark brown, brown to red, medium gray, calcareous, micaceous, brittle, firm
	20%	Limestone - as above
		Trace Sandstone
4690-4720	60%	Shale - medium gray, dark gray, marly, silty, medium hard to firm, blocky, dense
	40%	Limestone - white, light to medium gray, cryptocrystalline, very finely microcrystalline, cryptocrystalline, fossiliferous, marly, firm, medium hard, dense
4720-4750	50%	Siltstone - dark brown to gray, calcaroeus, micaceous, firm, brittle
	40%	Sandstone - clear, white, yellow, orange, very fine grain, medium grain, calcareous, slightly arkosic, siliceous, angular, unconsolidated, NFSOC
	10%	Shale - as above
		Trace Limestone
4750-4780	50%	Limestone - white, light gray, tan, cryptocrystalline, very finely microcrystalline, marly in part, siliceous, encrusted with pyrite, dense, tight, hard, firm
	30%	Shale - medium to dark gray, very marly, dense, tight, medium hard
	20%	Sandstone - as above
4780-4810	80%	Limestone - tan, white, light gray, cryptocrystalline, siliceous, pyritic, thinly laminated with shale, dense, tight, medium hard, hard
	20%	Shale - as above, dark gray, silty, marly, firm
4810-4840	50%	Limestone - light gray, tan, white, cryptocrystalline, sandy siliceous, dense, hard
	50%	Sandstone - clear, white, very fine to medium grain, calcareous, siliceous, quartzose, angular to subangular, predominately unconsolidated, hard, tight, NFSOC

4840-4900	80%	Limestone - white, light gray, tan, cryptocrystalline, some very finely microcrystalline, chalky in part, sandy, dense, firm, medium hard, tight
	10%	Sandstone - as above
	10%	Shale - dark gray, calcareous, silty, brittle, firm, blocky
4900-4930	60%	Limestone - white, light gray, tan, cryptocrystalline, translucent, dense, medium hard
	30%	Shale - dark reddish brown, medium to dark gray, calcareous, very silty, occasionally micaceous, brittle, firm, medium hard
	10%	Sandstone - as above, graded to siltstone
4930-4960	70%	Sandstone - white, clear, orange, very fine to fine grain, calcareous, slightly siliceous, arkosic, trace light blue clay included, angular, subangular, some unconsolidated, medium hard, firm, tight, NFSOC
	30%	Limestone - as above
		Trace Shale - as above
4960-4990	50%	Sandstone - as above, graded to siltstone
	40%	Limestone - medium gray, light gray, white, cryptocrystalline, marly, micaceous, silty, dense, medium hard
	10%	Shale - dark gray, dark brown to red, calcareous, brittle, medium hard
4990-5020	90%	Limestone - white, light gray, tan, cryptocrystalline, chalky in part, siliceous, dense, firm, medium hard to hard
	10%	Shale - as above
5020-5050	80%	Shale - dark red to brown, dark gray, calcareous, some very marly, sandy, very silty, blocky, medium hard
	20%	Limestone - medium gray, cryptocrystalline, marly and silty, dense, medium hard
		Trace Pyrite
5050-5080	50%	Shale - medium to dark gray, graded to marlsotne, silty, micaceous, blocky, firm, medium hard
	30%	Siltstone - dark red to brown, medium gray, calcareous, micaceous, very finely sandy, brittle, firm
	20%	Limestone - as above, some light gray, dense
		Trace Chert
5080-5110	60%	Limestone - light gray, white, tan, cryptocrystalline, siliceous, marly, dense, medium hard
	30%	Sandstone - clear, light gray, white, yellow, slightly calcareous
	10%	Shale - dark gray, marly, firm
		Trace Chert, Pyrite
5110-5140	70%	Limestone - medium gray, light gray, light gray, white, tan, cryptocrystalline to very finely microcrystalline, fossiliferous, predominately marly, sandy, occasionally siliceous, dense, medium hard
	30%	Shale - dark gray, dark red to brown, calcareous, graded to siltstone, firm, medium hard
5140-5170	60%	Limestone - as above, becoming white, chalky, fossiliferous
	40%	Shale - as above, red brown, graded to siltstone

5170-5200	50%	Limestone - white, tan, light to medium gray, cryptocrystalline to very finely microcrystalline, siliceous, marly, micaceous, firm, medium hard, dense
	50%	Shale - as above
5200-5230	70%	Shale - medium to dark gray, calcareous, silty, graded to marlstone, finely disseminated mica included, some fissile, firm
	20%	Limestone - medium gray, light gray, cryptocrystalline to very finely microcrystalline, marly, dense, firm, medium hard
	10%	Siltstone - medium to dark brown, dark gray, calcareous, firm
5230-5260	80%	Limestone - light to medium gray, off white, tan, cryptocrystalline, occasionally very finely microcrystalline, siliceous in part, lithic in part, dense, firm to hard
	20%	Shale - as above, very marly Trace Chert - tan, translucent
5260-5290	60%	Limestone - medium gray, light gray, some white, cryptocrystalline, marly, fossiliferous in part, some siliceous, dense, medium hard, firm Trace Chert - clear, translucent
	40%	Shale - medium to dark gray, silty, graded to marlstone, micaceous, blocky, medium hard
5290-5320	80%	Limestone - tan, off white, light to medium gray, translucent, cryptocrystalline, occasionally very finely microcrystalline, siliceous, some marly, slightly dolomitic, dense, hard, medium hard
	20%	Shale - as above Trace Chert - 5%, tan, clear, translucent
5320-5350	80%	Shale - dark gray, some medium gray, very calcareous to marly, silty, blocky, fissile in part, medium hard, hard
	20%	Limestone - as above Trace Chert - tan, translucent, occasionally slightly calcareous
5350-5380	60%	Limestone - medium gray, tan, light gray, cryptocrystalline, marly and argillaceous in part, siliceous, occasionally micaceous, dense, hard
	40%	Shale - as above, medium gray, very marly, hard Trace Chert - tan, slightly calcareous
5380-5410	50%	Limestone - as above, medium to dark gray, medium hard
	50%	Shale - as above, dark gray, black, silty, marly
5410-5440	90%	Limestone - white, tan, light to medium gray, cryptocrystalline, slightly marly and argillaceous, siliceous, occasionally chalky, fossiliferous, dense, firm to hard
	10%	Shale - dark gray, calcareous, silty, fissile, firm Trace Chert - tan, translucent
5440-5470	70%	Shale - as above, dark gray, medium gray, silty, calcareous, marly in part, fissile in part, firm to medium hard
	30%	Limestone - as above
5470-5500	60%	Limestone - white to light gray, tan, medium gray to brown, cryptocrystalline, siliceous, lithic, chalky in part, medium hard, firm, dense

5470-5500 (continued)	40%	Shale - as above Trace Chert - tan, translucent
5500-5530	70%	Shale - medium gray, dark gray, calcareous, very marly, silty, firm, blocky
	30%	Limestone - medium gray, light gray, white, cryptocrystalline, chalky, fossiliferous, some silty and marly, dense, medium hard, firm
5530-5560	80%	Shale - as above
	20%	Limestone - as above Trace Chert
5560-5590	80%	Limestone - tan, light to medium gray, white, cryptocrystalline to very finely microcrystalline, siliceous, cherty, marly and argillaceous in part, chalky, dense, firm
	20%	Shale - as above Trace Chert - dark gray
5590-5620	90%	Limestone - as above, very marly, increased medium gray color
	10%	Shale - as above Trace Chert - dark brown, translucent
5620-5650	90%	Limestone - tan, light to medium gray, white, cryptocrystalline, very finely microcrystalline, micaceous, siliceous, slightly argillaceous in part, occasionally fossiliferous, slightly sucrosic, dense, tight, medium hard to hard
	10%	Shale - as above Trace Chert
5650-5680	80%	Shale - dark gray, black, calcareous, slightly carbonaceous, some marly, very finely micaceous, slightly fissile, brittle, predominately blocky, firm to medium hard
	20%	Limestone - as above, medium gray, argillaceous
5680-5710	80%	Limestone - medium gray, tan, brown, white, cryptocrystalline, siliceous, argillaceous, chalky in part, firm, medium hard to hard
	10%	Shale - as above
	10%	Chert - tan to dark brown, translucent
5710-5740	90%	Limestone - as above
	10%	Shale - as above Trace Chert - 5%, dark brown, translucent
5740-5760	80%	Limestone - medium gray, off white, light gray, cryptocrystalline, very fine to medium grain, argillaceous and marly in part, pyritic, medium hard, dense
	20%	Shale - dark gray, medium gray, marly, argillaceous, blocky, firm, medium hard
5760-5770	60%	Limestone - as above
	40%	Shale - medium gray, dark gray, calcareous, marly, very slightly carbonaceous, silty, blocky, firm
5770-5780	60%	Shale - dark gray, medium gray, calcareous, carbonaceous, trace coal, silty, fissile, firm
	40%	Limestone - as above

5780-5790		Very Poor Sample
	50%	Shale - as above
	30%	Anhydrite - white, soft, slightly calcareous
	20%	Limestone - as above
5790-5800		Very Poor Sample
	50%	Anhydrite - as above
	30%	Shale - as above
	20%	Limestone - as above
		Abundant cavings
5800-5810		Very Poor Sample
	50%	Shale - as above
	30%	Anhydrite - white, soft
	20%	Limestone - white, medium gray, light gray, tan, brown, cryptocrystalline to finely microcrystalline, fossiliferous, dolomitic streaks of Ø, trace anhydritic, sucrosic, friable, firm, pin point vuggy to intercrystalline Ø, even brown stain along Ø faces, bright yellow fluorescence, very light yellow diffuse cut
5810-5820	40%	Limestone - as above
	30%	Anhydrite - as above
	30%	Shale - as above
		Abundant Cavings
5820-5830	90%	Limestone - white, light gray, cryptocrystalline, very finely microcrystalline, fossiliferous, chalky appearance, dolomitic, firm, medium hard, good vuggy Ø where it is slightly dolomitized, light yellow-blue fluorescence, fast streaming yellow cut, good live brown staining along Ø faces
	10%	Dolomite - light to medium gray, brown, very fine grain, limy sucrosic, friable, firm, good vuggy and intercrystalline Ø, light yellow-blue cut, fast streaming yellow cut, good live even staining along Ø faces
5830-5850	100%	Limestone - white, light gray, tan, cryptocrystalline very fine to finely microcrystalline, dolomitic in part, fossiliferous, chalky in part, friable in part, firm, medium hard, show as above, increase of Ø, fluorescence, and staining
5850-5860	80%	Limestone - white, tan, light gray, cryptocrystalline, very finely microcrystalline, dolomitic in part, chalky in part, fossiliferous, friable in part, firm, medium hard, show as above, 30-40% in sample
	20%	Dolomite - medium brown, tan, very fine to finely microcrystalline, limy, sucrosic, friable, firm, good vuggy and intercrystalline Ø, even live oil staining, bright yellow-blue fluorescence, fast moderately strong yellow streaming cut
5860-5870	100%	Limestone - white, tan, light gray, cryptocrystalline, very fine to finely microcrystalline, dolomitic, chalky in part, very fossiliferous, friable firm, show as above, tighter appearance than above, more diffuse cut
5870-5880	100%	Limestone - as above, slight decrease of visible oil staining, yellow-blue fluorescence, cut is becoming yellow-blue and diffuse

5880-5890	90%	Limestone - white, light gray, tan, medium gray, cryptocrystalline, very finely microcrystalline, fossiliferous, marly in part, chalky to argillaceous in part, firm, some visible vuggy Ø, trace oil staining, light yellow-blue fluorescence, no cut
	10%	Shale - medium gray, very marly, blocky, medium hard
5890-5900	60%	Limestone - as above, tan, marly in part, cryptocrystalline, tight appearance, dull yellow-blue fluorescence, no cut, no oil staining
	40%	Shale - as above, some dark gray, very marly
5900-5920	100%	Limestone - white, light gray, tan, cryptocrystalline to very finely microcrystalline, some finely microcrystalline, chalky, slightly dolomitic, trace anhydritic void fill, fossiliferous, slightly friable, firm, medium hard, trace visible Ø, no oil staining, light yellow-blue fluorescence, weak diffuse yellow cut
5920-5950	100%	Limestone - as above, slightly more dolomitic, slightly shaly, tight appearance, predominately intercrystalline Ø, probable low permiability, show in samples is decreasing in amount and percentage
5950-5970	100%	Limestone - white, tan, light gray, cryptocrystalline, very finely microcrystalline, slightly siliceous, slightly dolomitic, very anhydritic, chalky in part, fossiliferous, firm, medium hard, predominately tight, no sample show Trace Crinoid fossil casts
5970-5980	90%	Limestone - as above
	10%	Shale - dark gray, calcareous, silty, firm
5980-6000	70%	Shale - medium to dark gray, black, calcareous to limy and marly, silty, blocky, firm, medium hard
	30%	Limestone - as above
6000-6010	60%	Shale - black, dark to medium gray, calcareous, carbonaceous in part, marly in part, firm, blocky
	40%	Limestone - as above
6010-6020	90%	Limestone - light to medium gray, white, cryptocrystalline, very finely microcrystalline, anhydritic, dolomitic in part, slightly marly in part, firm, medium hard, dense
	10%	Shale - as above Trace Anhydrite
6020-6030	70%	Limestone - as above
	30%	Anhydrite - white, soft
6030-6040	50%	Anhydrite - white, soft
	50%	Limestone - as above
6040-6050	70%	Limestone - medium gray, light gray, cryptocrystalline, very finely microcrystalline, marly, slightly dolomitic, dense, tight, medium hard, NFSOC
	20%	Anhydrite - as above
	10%	Shale - medium gray, marly, firm

6050-6060	80%	Shale - black, calcareous, carbonaceous, silty, firm, platy
	10%	Limestone - as above, medium gray, very dolomitic
	10%	Anhydrite - white, soft
6060-6070	90%	Shale - as above
	10%	Limestone - as above
6070-6080	50%	Dolomite - medium gray, cryptocrystalline, marly, limy, silty, firm, medium hard
	30%	Shale - as above
	20%	Limestone - medium gray, cryptocrystalline, marly, firm
6080-6090	40%	Dolomite - as above, very marly
	40%	Shale - medium to dark gray, dolomitic, calcareous, marly, firm, blocky, graded to mudstone
	20%	Anhydrite - white, soft
6090-6100	70%	Shale - medium gray, graded to mudstone, dolomitic, marly, anhydritic, dense, medium hard, blocky
	30%	Anhydrite - white, soft
6100-6110	90%	Shale - as above
	10%	Anhydrite - as above
6110-6120	70%	Shale - medium gray, dark gray, dolomitic, marly, medium hard, firm
	30%	Anhydrite - white, soft, slightly calcareous
6120-6130	60%	Shale - as above
	30%	Dolomite - medium gray, dark gray, cryptocrystalline to very finely microcrystalline, anhydritic, marly, dense, predominately tight, firm, medium hard, trace pin point Ø, trace to 5% dull green fluorescence, diffuse light yellow cut, no staining
	10%	Anhydrite - as above
6130-6140	60%	Dolomite - as above, no show, slightly sucrosic and friable
	30%	Shale - as above
	10%	Anhydrite - as above
6140-6150	100%	Dolomite - medium gray to brown, cryptocrystalline to very finely microcrystalline, slightly marly, slightly sucrosic, predominately dense, medium hard, trace pin point vuggy Ø, trace brown oil stain, no fluorescence or cut Trace Anhydrite
6150-6160	90%	Shale - black, dark gray, calcareous, silty, carbonaceous, firm, fissile
	10%	Dolomite - as above Trace Anhydrite
6160-6170	80%	Shale - as above
	20%	Limestone - light gray, white, medium gray, very finely microcrystalline, cryptocrystalline, very dolomitic, marly, sucrosic, firm, dense, NFSOC Trace Anhydrite
6170-6182	70%	Limestone - medium gray, marly, graded to marlstone
	30%	Shale - as above Trace Anhydrite

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: QUINTANA PETROLEUM CORPORATION (303)682-9211

3. ADDRESS OF OPERATOR: 1050 - 17th Street, Suite 400, Denver, Colorado 80265

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 500' FSL & 780' FEL (SE SE Section 20)
At top prod. interval reported below: Same
At total depth: Same

5. LEASE DESIGNATION AND SERIAL NO.: U-57469
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A 052611
7. UNIT AGREEMENT NAME: N/A
8. FARM OR LEASE NAME: DEADMAN CANYON FEDERAL
9. WELL NO.: #2-20
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 20, T37S-R24E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-037-31303	1/8/87	San Juan	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
1/24/87	2/4/87	2/20/87	5605' GR, 5619' KB	5605'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6182'	5957' PBTD		→	0'-6182'	N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Information held confidential

2-13-87
2-20-87
2-23-87

LITHOLOGY
CEMENT EVALUATION
SPECTRAL DENSITY DSN II LOG
ACOUSTIC VELOCITY LOG
MUD LOG

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL; LDT/CNL; BHC Sonic; Dipmeter; CBL/VDL/GR/CCL

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	40# & 36#	2013.46'	12¼"	560 sxs Lite & 200 sxs "B"	None
5 1/2"	15.5# & 17#	6012.54	8 3/4"	320 sxs "H"	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	5861.25'	5862.25'

31. PERFORATION RECORD (Interval, size and number)
Information held confidential

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION: I.P. test to be run when facilities installed.
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump):
WELL STATUS (Producing or shut-in):

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Joe Williams TITLE Production Technician DATE 5/18/87

CC: Utah DOGM

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
NO CORES. DST - Being held confidential			

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
	LOG TOPS	
Shinarump	2583'	
Hermosa	4664'	
Gothic Shale	6042'	
Desert Creek	6066'	
Akah	6161'	

RECEIVED
MAY 20 1987
DIVISION OF
OIL, GAS & MINING

BAKER SERVICE TOOLS

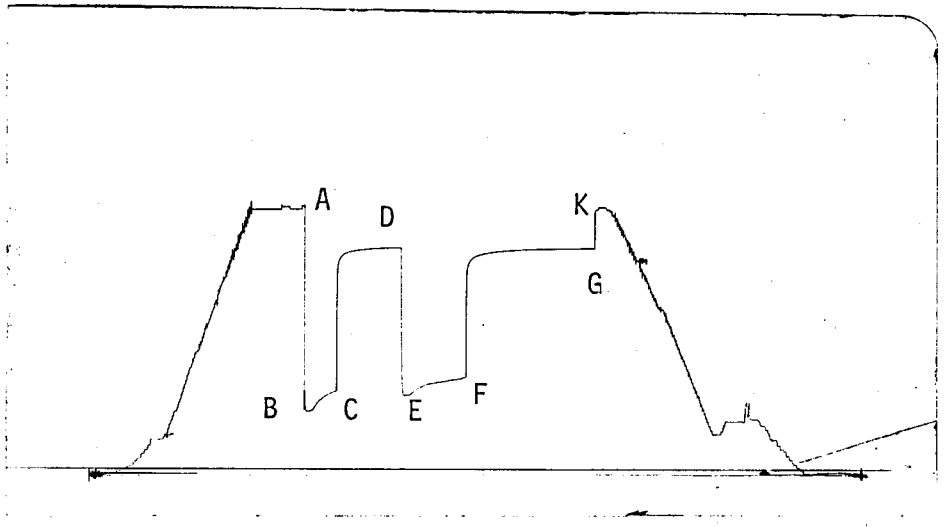
022905

TECHNICAL SERVICES, Security Life Bldg. • Suite 1350 • 1616 Glenarm • Denver, Colorado 80202 • Phone. (303) 573-8027

Contractor	Coleman	Top Choke	3/4"	Flow No. 1	30 Min.
Rig No.	#4	Bottom Choke	3/4"	Shut-in No. 1	60 Min.
Spot	--	Size Hole	8 3/4"	Flow No. 2	60 Min.
Sec.	20	Size Rat Hole	--	Shut-in No. 2	120 Min.
Twp.	37S	Size & Wt. D. P.	--	Flow No. 3	-- Min.
Rng.	24E	Size Wt. Pipe	--	Shut-in No. 3	-- Min.
Field	Cave Canyon	I. D. of D. C.	2¼"		
County	San Juan	Length of D. C.	710 ft	Bottom Hole Temp.	138°F
State	Utah	Total Depth	5815 ft	Mud Weight	9.5
Elevation	5619 ft	Interval Tested	5790-5815 ft	Gravity	--
Formation	Ismay	Type of Test	Bottom Hole Conventional	Viscosity	40

Tool opened @ 9:40 pm

Inside Recorder



PRD Make Kuster K-3
No. 7661 Cap. 4900 @ 5805'

		Press	Corrected
Initial Hydrostatic	A		2852
Final Hydrostatic	K		2852
Initial Flow	B		686
Final Initial Flow	C		900
Initial Shut-in	D		2438
Second Initial Flow	E		849
Second Final Flow	F		1051
Second Shut-in	G		2427
Third Initial Flow	H		--
Third Final Flow	I		--
Third Shut-in	J		--

Lynes Dist.: Farmington, NM
Our Tester: David Dolyniuk
Witnessed By: Ray Koehn

Operator: Quintana Petroleum
Address: 1050 17th Street, Suite 400, Denver, CO 80265
Well Name and No.: Deadman Canyon Federal #2-20
Ticket No.: 1319
Date: 2-3-87
DST No.: 1
No. Final Copies: 13

Did Well Flow – Gas Yes Oil No Water No Test was reverse circulated

RECOVERY IN PIPE:

820 ft. Condensate = 5.04 bbls.

Blow Description:

1st flow: Tool opened with 1 psi, gas to surface in 4 minutes, see gas volume report.

2nd flow: Tool opened with gas to surface in 1 minute, see gas volume report.

Comments: The test results indicate a mechanically successful test. The flow and shut-in curves suggest average permeability within the zone tested.

QUINTANA PETROLEUM
T#: 1
DEADMAN CANYON FEDERAL #2-20
5790 - 5815ft.

Location: 20-37S-24E
Test Type: BOTTOM HOLE CONVENTIONAL
Formation: ISMAY

Recorder Number: 7661
Recorder Depth: 5805 ft.

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P psi	PRESSURE psi	(T+dt)/dt ABSCISSA	PRESSURE SQUARED psi^2/10^6
A	INITIAL HYDROSTATIC	0.00		2852.0		
B	START OF 1st FLOW	0.00		686.0		
C	END OF 1st FLOW	30.00		900.0		
	1st SHUTIN PERIOD	0.00	0.0	900.0	0.0000	
		5.00	1457.0	2357.0	7.0000	
		10.00	1490.0	2390.0	4.0000	
		15.00	1505.0	2405.0	3.0000	
		20.00	1515.0	2415.0	2.5000	
		25.00	1521.0	2421.0	2.2000	
		30.00	1525.0	2425.0	2.0000	
		35.00	1530.0	2430.0	1.8571	
		40.00	1534.0	2434.0	1.7500*	
		45.00	1536.0	2436.0	1.6667*	
		50.00	1538.0	2438.0	1.6000*	
		55.00	1538.0	2438.0	1.5455*	
D	END OF 1st SHUTIN	60.00	1538.0	2438.0	1.5000*	
E	START OF 2nd FLOW	0.00		849.0		
F	END OF 2nd FLOW	60.00		1051.0		
	2nd SHUTIN PERIOD	0.00	0.0	1051.0	0.0000	
		5.00	1256.0	2307.0	19.0000	
		10.00	1300.0	2351.0	10.0000	
		15.00	1318.0	2369.0	7.0000	
		20.00	1331.0	2382.0	5.5000	
		25.00	1339.0	2390.0	4.6000	
		30.00	1347.0	2398.0	4.0000	
		35.00	1352.0	2403.0	3.5714	
		40.00	1358.0	2409.0	3.2500	
		45.00	1360.0	2411.0	3.0000	
		50.00	1362.0	2413.0	2.8000	
		55.00	1366.0	2417.0	2.6364*	
		60.00	1368.0	2419.0	2.5000*	
		65.00	1368.0	2419.0	2.3846*	
		70.00	1370.0	2421.0	2.2857*	
		75.00	1370.0	2421.0	2.2000*	
		80.00	1372.0	2423.0	2.1250*	
		85.00	1372.0	2423.0	2.0588*	
		90.00	1374.0	2425.0	2.0000*	

INTANA PETROLEUM
DST#: 1
DEADMAN CANYON FEDERAL #2-20
5790 - 5815ft.

Location: 20-37S-24E
Test Type: BOTTOM HOLE CONVENTIONAL
Formation: ISMAY

Recorder Number: 7661
Recorder Depth: 5805 ft.

TIME-PRESSURE LISTING

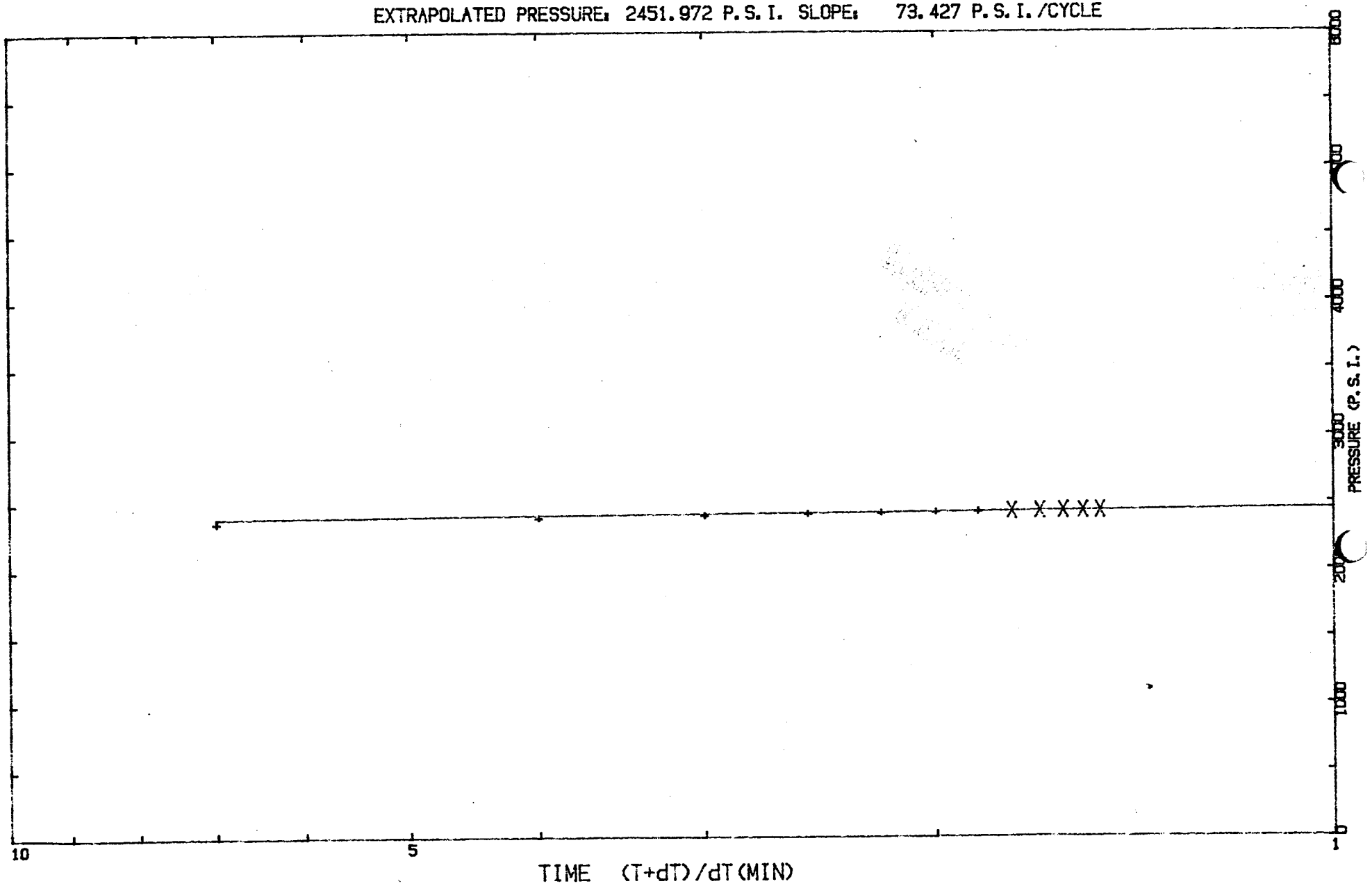
CHART LABEL	COMMENTS	TIME MIN.	DELTA P psi	PRESSURE psi	(T+dt)/dt ABSCISSA	PRESSURE SQUARED psi^2/10^6
		95.00	1374.0	2425.0	1.9474*	
		100.00	1374.0	2425.0	1.9000*	
		105.00	1374.0	2425.0	1.8571*	
		110.00	1376.0	2427.0	1.8182*	
		115.00	1376.0	2427.0	1.7826*	
G	END OF 2nd SHUTIN	120.00	1376.0	2427.0	1.7500*	
Q	FINAL HYDROSTATIC	0.00		2852.0		

* VALUES USED FOR EXTRAPOLATIONS

1st SHUT-IN:
HORNER EXTRAPOLATION 2451.97 PSI
HORNER SLOPE 73.43 psi/cycle

2nd SHUT-IN
HORNER EXTRAPOLATION 2441.71 PSI
HORNER SLOPE 58.73 psi/cycle

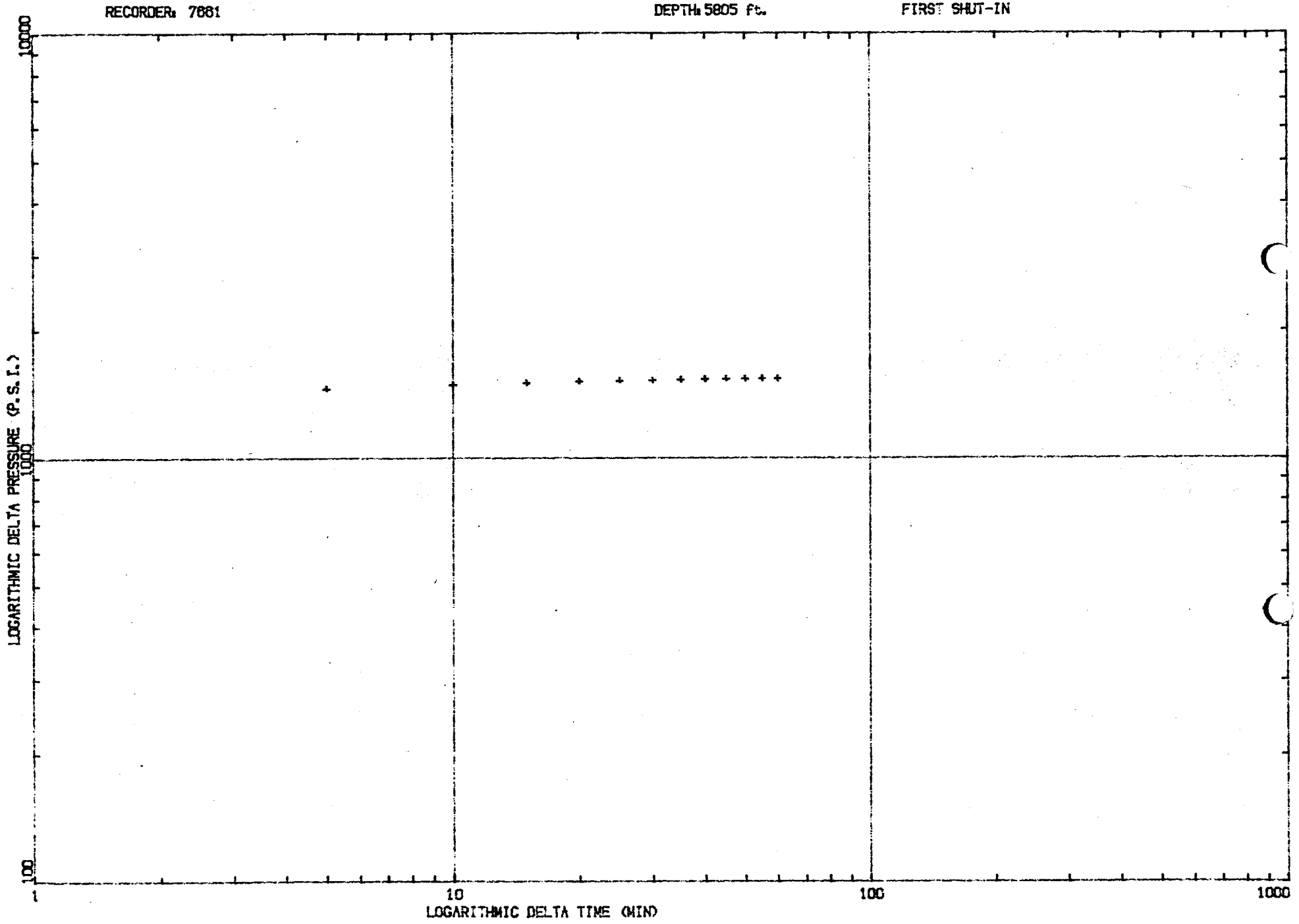
OPERATOR: QUINTANA PETROLEUM
WELL NAME: DEADMAN CANYON FEDERAL #2-20
LOCATION: 20-37S-24E DST #: 1
FIRST SHUT-IN
RECORDER: 7661 DEPTH: 5805 ft.
EXTRAPOLATED PRESSURE: 2451.972 P.S.I. SLOPE: 73.427 P.S.I./CYCLE



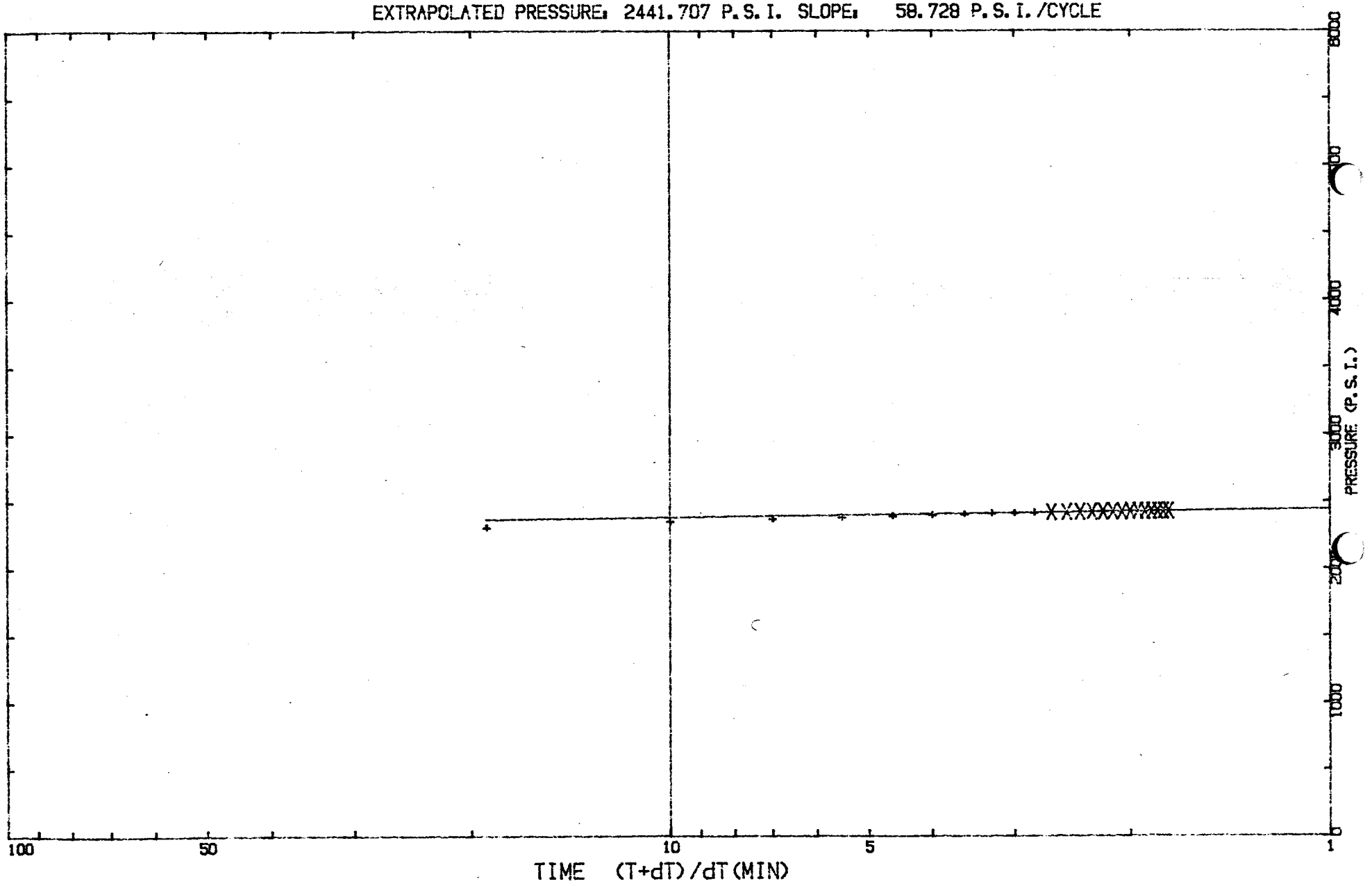
OPERATOR: QUINTANA PETROLEUM
LOCATION: 20-37S-24E
RECORDER: 7881

WELL NAME: DEADMAN CANYON FEDERAL #2-20
DST #: 1
DEPTH: 5805 ft.

FIRST SHUT-IN



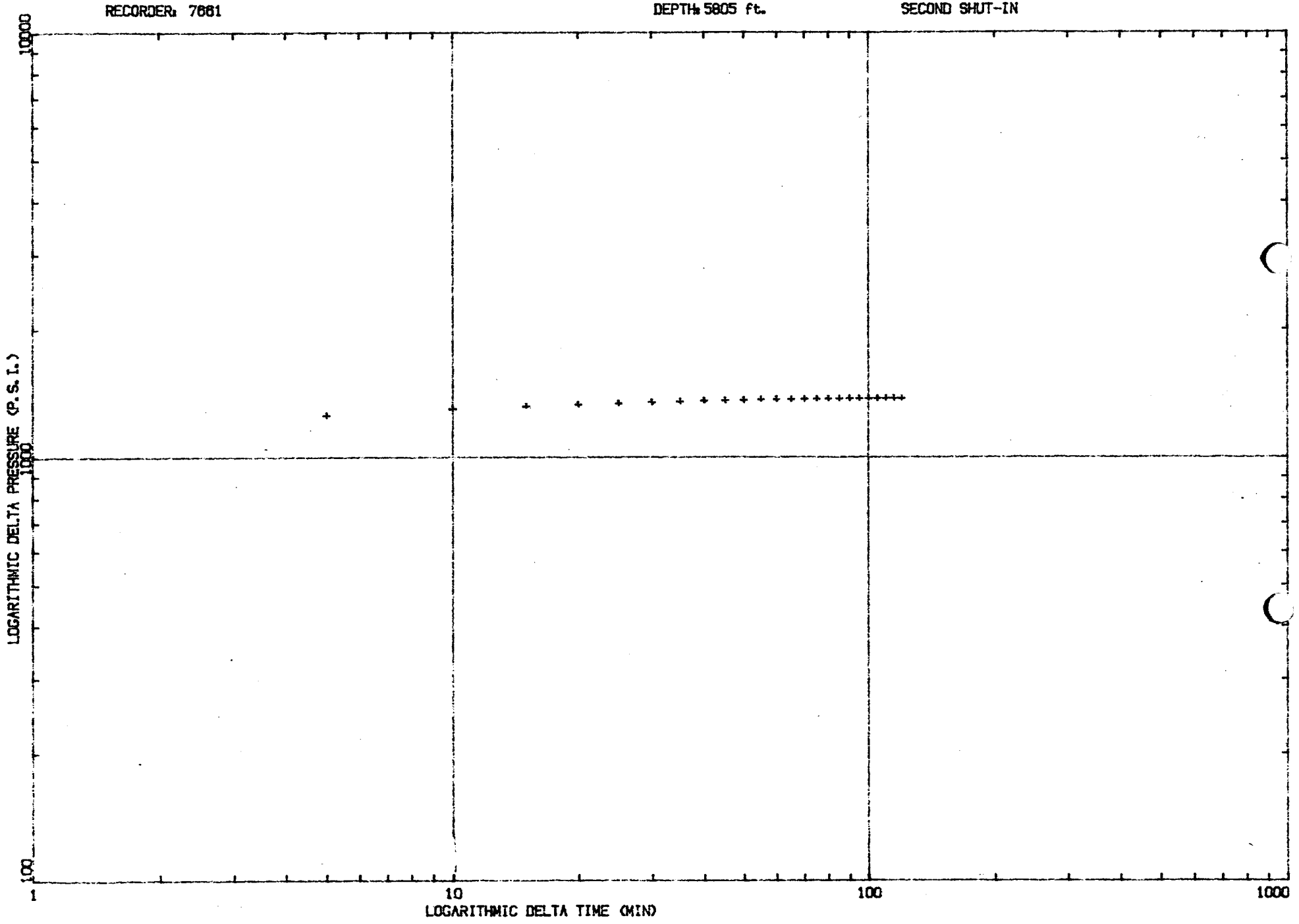
OPERATOR: QUINTANA PETROLEUM
WELL NAME: DEADMAN CANYON FEDERAL #2-20
LOCATION: 20-37S-24E DST #: 1
SECOND SHUT-IN
RECORDER: 7661 DEPTH: 5805 ft.
EXTRAPOLATED PRESSURE: 2441.707 P.S.I. SLOPE: 58.728 P.S.I./CYCLE



OPERATOR: QUINTANA PETROLEUM
LOCATION: 20-37S-24E
RECORDER: 7661

WELL NAME: DEADMAN CANYON FEDERAL #2-20
DST #: 1
DEPTH: 5805 ft.

SECOND SHUT-IN



MONTANA PETROLEUM
DST#: 1
DEADMAN CANYON FEDERAL #2-20
5790 - 5815ft.

Location: 20-37S-24E
Test Type: BOTTOM HOLE CONVENTIONAL
Formation: ISMAY

Recorder Number: 7661
Recorder Depth: 5805 ft.

SAMPLE DATA
****

SAMPLE CHAMBER:
****

Capacity of sample chamber	2100	cc
Volume of sample.....	100	cc
Pressure in sampler.....	50	psig
Where sampler was drained...	on location	

Sampler contained:

MUD 100 cc

RESISTIVITY DATA:
****

Top.....:	58 API GRAVITY CONDENSATE @ 65F
Middle.....:	58 API GRAVITY CONDENSATE @ 65F
Bottom.....:	58 API GRAVITY CONDENSATE @ 65F
Sampler.....:	
Mud pit.....:	9000 PPM NACL
Make-up Water..:	6900 PPM NACL

QUINTANA PETROLEUM
DST#: 1
DEADMAN CANYON FEDERAL #2-20
5790 - 5815ft.

GAS MEASUREMENTS
****

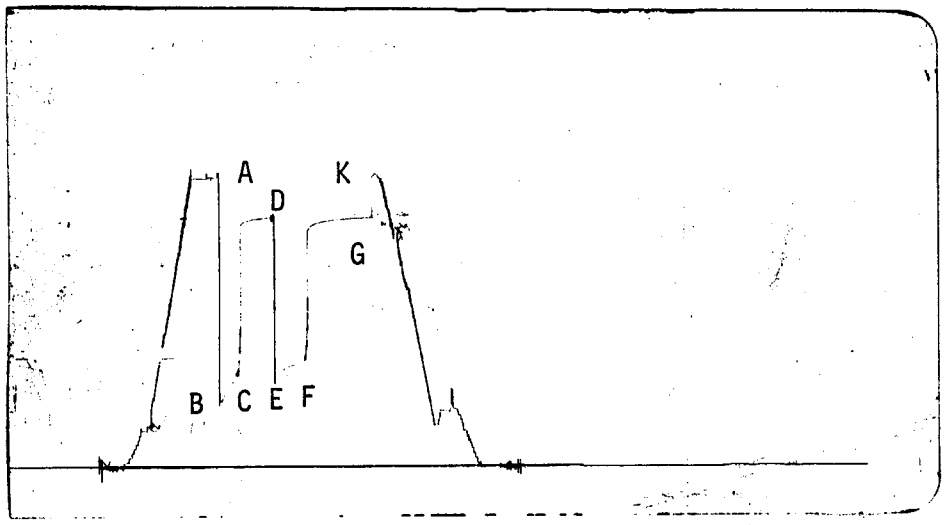
Device: FLOOR MANIFOLD Riser: 0.0 in. Bomb #:
Sent to:

FLOW #	TIME (min)	READING(psi)	CHOKE (in)	Mcf/d
1	4	80.0	.750	1377.4
1	5	100.0	.750	1667.4
1	10	160.0	.750	2537.0
1	15	200.0	.750	3117.0
1	20	235.0	.750	3625.0
1	25	250.0	.750	3842.0
1	30	260.0	.750	3987.0
2	1	40.0	.750	797.5
2	4	120.0	.750	1957.0
2	5	140.0	.750	2247.0
2	10	220.0	.750	3407.0
2	15	245.0	.750	3770.0
2	20	260.0	.750	3987.0
2	25	270.0	.750	4132.0
2	30	280.0	.750	4277.0
2	35	282.0	.750	4310.0
2	40	285.0	.750	4350.0
2	45	285.0	.750	4350.0
2	50	285.0	.750	4350.0
2	55	288.0	.750	4395.0
2	60	295.0	.750	4495.0

INTANA PETROLEUM
DST#: 1
DEADMAN CANYON FEDERAL #2-20
5790 - 5815ft.

PRESSURE RECORDER NUMBER : 24645

DEPTH : 5768.00ft. LOCATION : INSIDE
TYPE : K-3 CAPACITY : 4450.00psi

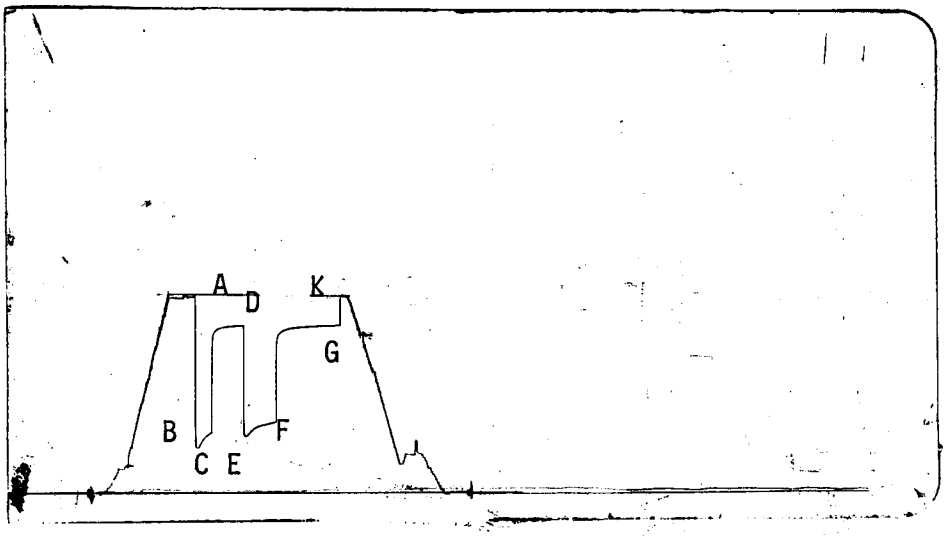


	PRESSURE psi
A)Initial Hydro :	2833.0
B)1st Flow Start:	650.0
C)1st Flow End :	898.0
D)END 1st Shutin:	2432.0
E)2nd Flow Start:	819.0
F)2nd Flow End :	1046.0
G)END 2nd Shutin:	2442.0
Q)Final Hydro. :	2833.0

TEST TIMES(MIN)
1st FLOW : 30
SHUTIN: 60
2nd FLOW : 60
SHUTIN: 120

PRESSURE RECORDER NUMBER : 24519

DEPTH : 5812.00ft. LOCATION : OUTSIDE
TYPE : K-3 CAPACITY : 6650.00psi



	PRESSURE psi
A)Initial Hydro :	2839.0
B)1st Flow Start:	656.0
C)1st Flow End :	879.0
D)END 1st Shutin:	2410.0
E)2nd Flow Start:	829.0
F)2nd Flow End :	1030.0
G)END 2nd Shutin:	2416.0
Q)Final Hydro. :	2839.0

RECEIVED
MAR 05 1987
DIVISION OF
OIL, GAS & MINING

DEADMAN CANYON #2-20

QUINTANA PETROLEUM CORPORATION
Sec 20, T37S, R24E
SAN JUAN COUNTY, UTAH

030604

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DEADMAN CANYON #2-20
SEC 20, T37S, R24E
SAN JUAN COUNTY, UTAH

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WELL DATA SUMMARY

WELL NAME:	DEADMAN CANYON #2-20
OPERATOR:	QUINTANA PETROLEUM CORPORATION
LOCATION:	SEC 20, T37S, R24E
COUNTY:	SAN JUAN COUNTY
STATE:	UTAH
AREA:	CAVE CANYON
DRILLING CONTRACTOR:	COLEMAN RIG #4
DRILLING ENGINEER:	RAY KOEHN
WELL SITE GEOLOGY:	DOUG REDMOND
ELEVATION: GL	5605'
KB	5619'
DEPTH LOGGED:	4600' to 6183'
DATE LOGGED:	1-28-87 to 2-05-87
TOTAL DEPTH:	6183'
HOLE SIZE:	12 1/4" to 2013', 8 3/4 " to 6183'
CASING PROGRAM:	9 5/8" to 2013', 5 1/2" to 6183'
D.S.T.:	BAKER SERVICE TOOLS, LYNES
MUDLOGGING:	ROCKY MOUNTAIN GEO-ENGINEERING
MECHANICAL LOGS:	WELEX GILLETTE WYOMING
WELL STATUS:	AWAITING COMPLETION

DAILY DRILLING SUMMARY

1987 DATE	DEPTH	PROGRESS	HOURS DRLG.	MUD WEIGHT	VISC.	W.L.	PH	ACTIVITY
1-26	2013'							Set surface casing
1-31	4363'	943'	22	8.3	28	H_2O		Drilling
2-01	5019'	656'	17 1/2	8.3	29	H_2O		Drilling
2-02	5543'	524'	23	9.2+	38	93.6	9.5	Drilling
2-03	5815'	272'	8	9.5	42	10.5	11.5	Drilling
2-04	5990'	175'	8 1/2	9.8	44	9.8	12	Drilling
2-05	6182'	182'	9	9.8	44	10.1	11.5	E-logs

FORMATION TOPS

ELEVATION: GL 5605'
KB 5619'

FORMATION	PROGNOSIS	ESTIMATED TOP	E-LOG	SUBSEA
NAVAJO	1010'			
WINGATE	1583'			
CHINLE	1853'	1893'	1894'	3725'
SHINARUMP	2548'			
HERMOSA	4692'	4690'	4692'	927'
UPPER ISMAY	5754'	5781'	5777'	- 158'
HOVENWEEP SHALE	5959'	5977'	5970'	- 351'
LOWER ISMAY	5995'	5998'	6000'	- 381'
GOTHIC SHALE	6039'	6044'	6042'	- 423'
DESERT CREEK	6064'	6076'	6069'	- 450'
AKAH	6159'	6165'	6161'	- 542'
SALT	6177'			

DEVIATION SURVEY

DEPTH	SURVEY	CHANGE
2013'	2°	
4820'	1°	+ 1°
5317'	3/4°	- 1/4°
5815'	3/4°	0
6183'	1 1/4°	+ 1/2°

BIT RECORD

OIL CO.: QUINTANA PETROLEUM CORPORATION WELL NAME: DEADMAN CANYON LOCATION NO.: 2-20

CONTRACTOR: COLEMAN DRILLING CO. RIG #: 4 AREA: CAVE CANYON COUNTY: SAN JUAN

RIG MAKE & MODEL: N-46 SKYTOP BREWSTER SURF CSG: 9 5/8" to 2013' INT. CSG: PROD CSG: 5 1/2" to 6083'

NO. 1 PUMP, MAKE & MODEL: OPI 700 HDL SPUD DATE: 1-24-87

NO. 2 PUMP, MAKE & MODEL: WILSON 600 T.D. DATE: 2-04-87

BIT NO.	SIZE	TYPE MAKE	JETS	BIT SER.N.	DEPTH OUT	FEET	HOURS	ACCUM HOURS	WOB	RPM	VERT DEV.	PUMP PRESS	MUD WT	MUD VIS	BIT.COND T	BIT.COND B	BIT.COND G	REMARKS
1	20	OWY	14-14-14	RR	48	48	2 1/2	2 1/2	ALL	120		700	water					
2	12 1/4	F-3	14-14-14	RR	1828	1780	34 1/2	37	45	80	1 1/2	1400	water					
3	12 1/4	F-3	13-13-13	RR	2013	137	5 1/2	42 1/2	45	80	1 3/4	1400	water					
4	8 3/4	F-27	10-10-B	EZ2491	4966	2953	65 1/2	108	45	70	1	1700	water					
5	8 3/4	V-537C	10-10-B	15561	5815	849			45	65	3/4	2000	9.6	40				
6	8 3/4	F-3	10-11-B	RR	6182	367	25		45	65	1 1/4	1500	9.8	50				

SHOW REPORT

WELL NAME: DEADMAN CANYON 2-20

AREA: CAVE CANYON COUNTY: SAN JUAN STATE: UTAH

SHOW No.: 1

FOOTAGE - from 5800' to 5815' Net ftg 15'

	DT	TOTAL GAS	CHROMATOGRAPH BREAKDOWN $C_{1(ppm)}$	C_2	C_3	C_{4I}	C_{4N}	other C_5
BEFORE	4.5	140	6,175	3,145	1,710	196	500	
DURING	1	930	100,700	80,750	41,800	3,920	8,730	masked by attenuation
AFTER	1	300	38,760	12,920	6,650	392	1,250	276

LITHOLOGY TYPE & DESCRIPTION: LS m brn,ltgy,wh,tan,vf-c micxln,foss,sm earthy app,tr anhy,dolo,v fri,frm

POROSITY Est.: 10-12% intrxln,tr vuggy

STAIN DESCRIPTION: m brn-dk asphaltic, live oil stn

FLUORESCENCE and CUT DESCRIPTION: bri yel-blu to grn-blu fluo, tr fast bri yel cut,pred pale,diffuse yel-blu

REMARKS: Upper Ismay first carbonate 5781'. Very poor samples due to anhydrite contamination

SHOW REPORT

WELL NAME: DEADMAN CANYON 2-20

AREA: CAVE CANYON **COUNTY:** SAN JUAN **STATE:** UTAH

SHOW No.: 2

FOOTAGE - from 5815' **to** 5877' **Net ftg** 62'

	DT	TOTAL GAS	CHROMATOGRAPH BREAKDOWN C_1 (ppm)	C_2	C_3	C_{4I}	C_{4N}	other C_5
BEFORE	1	300	58,760	12,920	6,650	392	1,250	276
DURING	1-1.5	670	90,000	38,000	22,500	9,000		TR
AFTER	1-2.5	150	17,000	8,000	7,000	3,500		TR

LITHOLOGY TYPE & DESCRIPTION: LS wh,ltgy,tan,crypt,vf-med micxln,chalky ip, foss,occ anhy,dolomitized bwn streaks, sucr,fri,frm

POROSITY Est.: 10-12%

STAIN DESCRIPTION: even brn-dk brn along porosity

FLUORESCENCE and CUT DESCRIPTION: bri yel to yel-blu fluo, 50-60% in sample, strmg mlky yel cut

REMARKS: C_{4I} and C_{4N} are added together, small trace of C_5

DRILL STEM TEST REPORT

WELL NAME: DEADMAN CANYON #2-20 DATE: 2-03-87

AREA: CAVE CANYON COUNTY: SAN JUAN STATE: UTAH

WITNESS: KOEHN, REDMOND

TEST NUMBER: 1 INTERVAL TESTED: 5790-5815'

TEST COMPANY AND TYPE OF TEST: LYNES, CONVENTIONAL DOUBLE PACKER

INITIAL FLOW: Open with 1#, GTS 3 min 80 PSI through 3/4" choke, 120# in 7 min., 140 PSI 9 min., 200# in 15 min., 235# in 20 min.- 250 # in 25 min., shut in with 260# at 30 min.

FINAL FLOW: Open with 1# on 3/4" choke, 40# in 1 min., 80# in 3 min., 200# in 9 min., 240# in 13 min., 260# in 20 min., 270# in 25 min., 280# in 30 min., 285# in 40 min., 285# in 50 min., shut in with 295# at 60 min.

	TIME	TOP CHART	BOTTOM CHART
IH:		2898	3089
IF:	30	696-900	633-853
ISI:	60	2462	2396
FF:	60	869-1053	798-1005
FSI:	120	2454	2390
FH:		2878	3075

BHT: 138 °

RECOVERY: 820'(8.2 BBLS) of oil, 58 Gravity at 65° condensate

SAMPLE CHAMBER: _____ cfg and 100 cc of oil and mud at 50 PSI

RESISTIVITIES: mud at pit .75 at 65°, 7500 ppm make up water 1 at 65°, 5000 ppm

REMARKS: Sample chamber malfunctioned

Final shut in gauged at 4.5 million+ cubic feet gas/day

GEOLOGIC SUMMARY

Deadman Canyon 2-20 offsets the discovery well, Deadman Canyon 1-20, to the southeast following the ancient shoreline trend. The drilling program was very similar to the 1-20 well. Surface casing was set to 2013', to protect the Navajo and Wingate Sandstone aquifers uphole. No major drilling problems were encountered. A two man mud-logging unit was used to evaluate samples and hydrocarbon shows from the Hermosa to TD. Electric logs included a dual laterolog, neutron, density, acoustic porosity logs, and stratigraphic dipmeter.

HERMOSA: 4692' - 5777'

This interval consisted of interbedded shales, siltstones, and limestones. Primarily it was clastics of continental deposition near the top, grading to marine limestones and marlstones closer to the base of the interval. A large amount of siliceous limestone and chert were drilled in the lower 500' of interval. No economic hydrocarbon shows were found.

UPPER ISMAY: 5777' - 5970'

This top was marked by 8' of anhydrite that was unmistakeable in the samples. This well had a carbonate section containing hydrocarbons that looked very similar to the productive interval of the discovery well. The carbonate was primarily a very clean, white, fossiliferous limestone with dolomitized streaks throughout. The porosity was both intercrystalline and vuggy. The vugs occasionally exhibited moldic forms of the leached fossil remains. The dolomitic streaks seemed to closely align with the highest density porosity on the E-logs. The drill stem test ran on 15' of the porous upper pay seened to confirm a gas cap. Analysis of samples taken should verify this assumption. It was obvious from the results that the interval will produce a great amount of gas and oil. The permiability was very high both horizontally and vertically. E-logs looked very good, showing high porosity and resistivity. At 5862', the F_R droped enough to cause concern about it being wet. The samples contained a large percentage of fluorescence. The strength and brightness of the chlorothene cut gradually diminished from there to 5892', where a dolomitic marlstone separated the two carbonate intervals. The interval from 5862' to 5892' will likely produce oil with some water. The carbonate below 5892' was porous, although tighter looking, and the shows were much weaker. Without doubt, the interval was water wet and non-productive.

HOVENWEEP SHALE AND LOWER ISMAY: 5970' - 6042'

The Hovenweep Shale was black, carbonaceous, calcareous, and firm. Following it was the Lower Ismay carbonate and massive anhydrite interval. No economic shows were found in the interval.

GOTHIC SHALE AND DESERT CREEK: 6042' - 6161'

The Gothic Shale was similar to the Hovenweep Shale. It was black, highly carbonaceous, firm, and gaseous. The Desert Creek top was chosen on a slight drilling penetration increase in a crystalline dolomitic siltstone. The sequence contained an anhydrite following the siltstone.

This was above another dolomitic mudstone and a second anhydrite. The second anhydrite was from the Lower Bench of the Desert Creek, and is usually considered the productive interval where the carbonate has been built up and dolomitized. A show was logged at this point, however no economic importance could be seen. The well was finished without touching the Paradox salt, to keep the drilling mud salinity down as low as possible.

SAMPLE DESCRIPTIONS

4600-4630		Very Poor Sample, drilling with water
	60%	Siltstone - brown, red, calcareous, micaceous, firm, brittle
	20%	Limestone - white, light gray, medium gray, red, cryptocrystalline, very finely microcrystalline, chalky, shaly, firm, medium hard, dense
	20%	Sandstone - white, clear, brown, orange, very fine grain, calcaroeus, arkosic, silty, angular, unconsolidated
4630-4660	60%	Limestone - light to medium gray, white, very finely microcrystalline, cryptocrystalline, sandy, firm, dense
	30%	Siltstone - brown, red, medium gray, calcareous, micaceous, brittle, platy, firm
	10%	Sandstone - as above, very fine to medium grain, arkosic, unconsolidated
4660-4690	80%	Siltstone - dark brown, brown to red, medium gray, calcareous, micaceous, brittle, firm
	20%	Limestone - as above
		Trace Sandstone
4690-4720	60%	Shale - medium gray, dark gray, marly, silty, medium hard to firm, blocky, dense
	40%	Limestone - white, light to medium gray, cryptocrystalline, very finely microcrystalline, cryptocrystalline, fossiliferous, marly, firm, medium hard, dense
4720-4750	50%	Siltstone - dark brown to gray, calcaroeus, micaceous, firm, brittle
	40%	Sandstone - clear, white, yellow, orange, very fine grain, medium grain, calcareous, slightly arkosic, siliceous, angular, unconsolidated, NFSOC
	10%	Shale - as above
		Trace Limestone
4750-4780	50%	Limestone - white, light gray, tan, cryptocrystalline, very finely microcrystalline, marly in part, siliceous, encrusted with pyrite, dense, tight, hard, firm
	30%	Shale - medium to dark gray, very marly, dense, tight, medium hard
	20%	Sandstone - as above
4780-4810	80%	Limestone - tan, white, light gray, cryptocrystalline, siliceous, pyritic, thinly laminated with shale, dense, tight, medium hard, hard
	20%	Shale - as above, dark gray, silty, marly, firm
4810-4840	50%	Limestone - light gray, tan, white, cryptocrystalline, sandy siliceous, dense, hard
	50%	Sandstone - clear, white, very fine to medium grain, calcareous, siliceous, quartzose, angular to subangular, predominately unconsolidated, hard, tight, NFSOC

4840-4900	80%	Limestone - white, light gray, tan, cryptocrystalline, some very finely microcrystalline, chalky in part, sandy, dense, firm, medium hard, tight
	10%	Sandstone - as above
	10%	Shale - dark gray, calcareous, silty, brittle, firm, blocky
4900-4930	60%	Limestone - white, light gray, tan, cryptocrystalline, translucent, dense, medium hard
	30%	Shale - dark reddish brown, medium to dark gray, calcareous, very silty, occasionally micaceous, brittle, firm, medium hard
	10%	Sandstone - as above, graded to siltstone
4930-4960	70%	Sandstone - white, clear, orange, very fine to fine grain, calcareous, slightly siliceous, arkosic, trace light blue clay included, angular, subangular, some unconsolidated, medium hard, firm, tight, NFSOC
	30%	Limestone - as above Trace Shale - as above
4960-4990	50%	Sandstone - as above, graded to siltstone
	40%	Limestone - medium gray, light gray, white, cryptocrystalline, marly, micaceous, silty, dense, medium hard
	10%	Shale - dark gray, dark brown to red, calcareous, brittle, medium hard
4990-5020	90%	Limestone - white, light gray, tan, cryptocrystalline, chalky in part, siliceous, dense, firm, medium hard to hard
	10%	Shale - as above
5020-5050	80%	Shale - dark red to brown, dark gray, calcareous, some very marly, sandy, very silty, blocky, medium hard
	20%	Limestone - medium gray, cryptocrystalline, marly and silty, dense, medium hard Trace Pyrite
5050-5080	50%	Shale - medium to dark gray, graded to marlsotne, silty, micaceous, blocky, firm, medium hard
	30%	Siltstone - dark red to brown, medium gray, calcareous, micaceous, very finely sandy, brittle, firm
	20%	Limestone - as above, some light gray, dense Trace Chert
5080-5110	60%	Limestone - light gray, white, tan, cryptocrystalline, siliceous, marly, dense, medium hard
	30%	Sandstone - clear, light gray, white, yellow, slightly calcareous
	10%	Shale - dark gray, marly, firm Trace Chert, Pyrite
5110-5140	70%	Limestone - medium gray, light gray, light gray, white, tan, cryptocrystalline to very finely microcrystalline, fossiliferous, predominately marly, sandy, occasionally siliceous, dense, medium hard
	30%	Shale - dark gray, dark red to brown, calcareous, graded to siltstone, firm, medium hard
5140-5170	60%	Limestone - as above, becoming white, chalky, fossiliferous
	40%	Shale - as above, red brown, graded to siltstone

5170-5200	50%	Limestone - white, tan, light to medium gray, cryptocrystalline to very finely microcrystalline, siliceous, marly, micaceous, firm, medium hard, dense
	50%	Shale - as above
5200-5230	70%	Shale - medium to dark gray, calcareous, silty, graded to marlstone, finely disseminated mica included, some fissile, firm
	20%	Limestone - medium gray, light gray, cryptocrystalline to very finely microcrystalline, marly, dense, firm, medium hard
	10%	Siltstone - medium to dark brown, dark gray, calcareous, firm
5230-5260	80%	Limestone - light to medium gray, off white, tan, cryptocrystalline, occasionally very finely microcrystalline, siliceous in part, lithic in part, dense, firm to hard
	20%	Shale - as above, very marly
		Trace Chert - tan, translucent
5260-5290	60%	Limestone - medium gray, light gray, some white, cryptocrystalline, marly, fossiliferous in part, some siliceous, dense, medium hard, firm
		Trace Chert - clear, translucent
	40%	Shale - medium to dark gray, silty, graded to marlstone, micaceous, blocky, medium hard
5290-5320	80%	Limestone - tan, off white, light to medium gray, translucent, cryptocrystalline, occasionally very finely microcrystalline, siliceous, some marly, slightly dolomitic, dense, hard, medium hard
	20%	Shale - as above
		Trace Chert - 5%, tan, clear, translucent
5320-5350	80%	Shale - dark gray, some medium gray, very calcareous to marly, silty, blocky, fissile in part, medium hard, hard
	20%	Limestone - as above
		Trace Chert - tan, translucent, occasionally slightly calcareous
5350-5380	60%	Limestone - medium gray, tan, light gray, cryptocrystalline, marly and argillaceous in part, siliceous, occasionally micaceous, dense, hard
	40%	Shale - as above, medium gray, very marly, hard
		Trace Chert - tan, slightly calcareous
5380-5410	50%	Limestone - as above, medium to dark gray, medium hard
	50%	Shale - as above, dark gray, black, silty, marly
5410-5440	90%	Limestone - white, tan, light to medium gray, cryptocrystalline, slightly marly and argillaceous, siliceous, occasionally chalky, fossiliferous, dense, firm to hard
	10%	Shale - dark gray, calcareous, silty, fissile, firm
		Trace Chert - tan, translucent
5440-5470	70%	Shale - as above, dark gray, medium gray, silty, calcareous, marly in part, fissile in part, firm to medium hard
	30%	Limestone - as above
5470-5500	60%	Limestone - white to light gray, tan, medium gray to brown, cryptocrystalline, siliceous, lithic, chalky in part, medium hard, firm, dense

5470-5500 (continued)	40%	Shale - as above Trace Chert - tan, translucent
5500-5530	70%	Shale - medium gray, dark gray, calcareous, very marly, silty, firm, blocky
	30%	Limestone - medium gray, light gray, white, cryptocrystalline, chalky, fossiliferous, some silty and marly, dense, medium hard, firm
5530-5560	80%	Shale - as above
	20%	Limestone - as above Trace Chert
5560-5590	80%	Limestone - tan, light to medium gray, white, cryptocrystalline to very finely microcrystalline, siliceous, cherty, marly and argillaceous in part, chalky, dense, firm
	20%	Shale - as above Trace Chert - dark gray
5590-5620	90%	Limestone - as above, very marly, increased medium gray color
	10%	Shale - as above Trace Chert - dark brown, translucent
5620-5650	90%	Limestone - tan, light to medium gray, white, cryptocrystalline, very finely microcrystalline, micaceous, siliceous, slightly argillaceous in part, occasionally fossiliferous, slightly sucrosic, dense, tight, medium hard to hard
	10%	Shale - as above Trace Chert
5650-5680	80%	Shale - dark gray, black, calcareous, slightly carbonaceous, some marly, very finely micaceous, slightly fissile, brittle, predominately blocky, firm to medium hard
	20%	Limestone - as above, medium gray, argillaceous
5680-5710	80%	Limestone - medium gray, tan, brown, white, cryptocrystalline, siliceous, argillaceous, chalky in part, firm, medium hard to hard
	10%	Shale - as above
	10%	Chert - tan to dark brown, translucent
5710-5740	90%	Limestone - as above
	10%	Shale - as above Trace Chert - 5%, dark brown, translucent
5740-5760	80%	Limestone - medium gray, off white, light gray, cryptocrystalline, very fine to medium grain, argillaceous and marly in part, pyritic, medium hard, dense
	20%	Shale - dark gray, medium gray, marly, argillaceous, blocky, firm, medium hard
5760-5770	60%	Limestone - as above
	40%	Shale - medium gray, dark gray, calcareous, marly, very slightly carbonaceous, silty, blocky, firm
5770-5780	60%	Shale - dark gray, medium gray, calcareous, carbonaceous, trace coal, silty, fissile, firm
	40%	Limestone - as above

5780-5790		Very Poor Sample
	50%	Shale - as above
	30%	Anhydrite - white, soft, slightly calcareous
	20%	Limestone - as above
5790-5800		Very Poor Sample
	50%	Anhydrite - as above
	30%	Shale - as above
	20%	Limestone - as above
		Abundant cavings
5800-5810		Very Poor Sample
	50%	Shale - as above
	30%	Anhydrite - white, soft
	20%	Limestone - white, medium gray, light gray, tan, brown, cryptocrystalline to finely microcrystalline, fossiliferous, dolomitic streaks of Ø, trace anhydritic, sucrosic, friable, firm, pin point vuggy to intercrystalline Ø, even brown stain along Ø faces, bright yellow fluorescence, very light yellow diffuse cut
5810-5820	40%	Limestone - as above
	30%	Anhydrite - as above
	30%	Shale - as above
		Abundant Cavings
5820-5830	90%	Limestone - white, light gray, cryptocrystalline, very finely microcrystalline, fossiliferous, chalky appearance, dolomitic, firm, medium hard, good vuggy Ø where it is slightly dolomitized, light yellow-blue fluorescence, fast streaming yellow cut, good live brown staining along Ø faces
	10%	Dolomite - light to medium gray, brown, very fine grain, limy sucrosic, friable, firm, good vuggy and intercrystalline Ø, light yellow-blue cut, fast streaming yellow cut, good live even staining along Ø faces
5830-5850	100%	Limestone - white, light gray, tan, cryptocrystalline very fine to finely microcrystalline, dolomitic in part, fossiliferous, chalky in part, friable in part, firm, medium hard, show as above, increase of Ø, fluorescence, and staining
5850-5860	80%	Limestone - white, tan, light gray, cryptocrystalline, very finely microcrystalline, dolomitic in part, chalky in part, fossiliferous, friable in part, firm, medium hard, show as above, 30-40% in sample
	20%	Dolomite - medium brown, tan, very fine to finely microcrystalline, limy, sucrosic, friable, firm, good vuggy and intercrystalline Ø, even live oil staining, bright yellow-blue fluorescence, fast moderately strong yellow streaming cut
5860-5870	100%	Limestone - white, tan, light gray, cryptocrystalline, very fine to finely microcrystalline, dolomitic, chalky in part, very fossiliferous, friable firm, show as above, tighter appearance than above, more diffuse cut
5870-5880	100%	Limestone - as above, slight decrease of visible oil staining, yellow-blue fluorescence, cut is becoming yellow-blue and diffuse

5880-5890	90%	Limestone - white, light gray, tan, medium gray, cryptocrystalline, very finely microcrystalline, fossiliferous, marly in part, chalky to argillaceous in part, firm, some visible vuggy Ø, trace oil staining, light yellow-blue fluorescence, no cut
	10%	Shale - medium gray, very marly, blocky, medium hard
5890-5900	60%	Limestone - as above, tan, marly in part, cryptocrystalline, tight appearance, dull yellow-blue fluorescence, no cut, no oil staining
	40%	Shale - as above, some dark gray, very marly
5900-5920	100%	Limestone - white, light gray, tan, cryptocrystalline to very finely microcrystalline, some finely microcrystalline, chalky, slightly dolomitic, trace anhydritic void fill, fossiliferous, slightly friable, firm, medium hard, trace visible Ø, no oil staining, light yellow-blue fluorescence, weak diffuse yellow cut
5920-5950	100%	Limestone - as above, slightly more dolomitic, slightly shaly, tight appearance, predominately intercrystalline Ø, probable low permiability, show in samples is decreasing in amount and percentage
5950-5970	100%	Limestone - white, tan, light gray, cryptocrystalline, very finely microcrystalline, slightly siliceous, slightly dolomitic, very anhydritic, chalky in part, fossiliferous, firm, medium hard, predominately tight, no sample show Trace Crinoid fossil casts
5970-5980	90%	Limestone - as above
	10%	Shale - dark gray, calcareous, silty, firm
5980-6000	70%	Shale - medium to dark gray, black, calcareous to limy and marly, silty, blocky, firm, medium hard
	30%	Limestone - as above
6000-6010	60%	Shale - black, dark to medium gray, calcareous, carbonaceous in part, marly in part, firm, blocky
	40%	Limestone - as above
6010-6020	90%	Limestone - light to medium gray, white, cryptocrystalline, very finely microcrystalline, anhydritic, dolomitic in part, slightly marly in part, firm, medium hard, dense
	10%	Shale - as above Trace Anhydrite
6020-6030	70%	Limestone - as above
	30%	Anhydrite - white, soft
6030-6040	50%	Anhydrite - white, soft
	50%	Limestone - as above
6040-6050	70%	Limestone - medium gray, light gray, cryptocrystalline, very finely microcrystalline, marly, slightly dolomitic, dense, tight, medium hard, NFSOC
	20%	Anhydrite - as above
	10%	Shale - medium gray, marly, firm

6050-6060	80%	Shale - black, calcareous, carbonaceous, silty, firm, platy
	10%	Limestone - as above, medium gray, very dolomitic
	10%	Anhydrite - white, soft
6060-6070	90%	Shale - as above
	10%	Limestone - as above
6070-6080	50%	Dolomite - medium gray, cryptocrystalline, marly, limy, silty, firm, medium hard
	30%	Shale - as above
	20%	Limestone - medium gray, cryptocrystalline, marly, firm
6080-6090	40%	Dolomite - as above, very marly
	40%	Shale - medium to dark gray, dolomitic, calcareous, marly, firm, blocky, graded to mudstone
	20%	Anhydrite - white, soft
6090-6100	70%	Shale - medium gray, graded to mudstone, dolomitic, marly, anhydritic, dense, medium hard, blocky
	30%	Anhydrite - white, soft
6100-6110	90%	Shale - as above
	10%	Anhydrite - as above
6110-6120	70%	Shale - medium gray, dark gray, dolomitic, marly, medium hard, firm
	30%	Anhydrite - white, soft, slightly calcareous
6120-6130	60%	Shale - as above
	30%	Dolomite - medium gray, dark gray, cryptocrystalline to very finely microcrystalline, anhydritic, marly, dense, predominately tight, firm, medium hard, trace pin point Ø, trace to 5% dull green fluorescence, diffuse light yellow cut, no staining
	10%	Anhydrite - as above
6130-6140	60%	Dolomite - as above, no show, slightly sucrosic and friable
	30%	Shale - as above
	10%	Anhydrite - as above
6140-6150	100%	Dolomite - medium gray to brown, cryptocrystalline to very finely microcrystalline, slightly marly, slightly sucrosic, predominately dense, medium hard, trace pin point vuggy Ø, trace brown oil stain, no fluorescence or cut Trace Anhydrite
6150-6160	90%	Shale - black, dark gray, calcareous, silty, carbonaceous, firm, fissile
	10%	Dolomite - as above Trace Anhydrite
6160-6170	80%	Shale - as above
	20%	Limestone - light gray, white, medium gray, very finely microcrystalline, cryptocrystalline, very dolomitic, marly, sucrosic, firm, dense, NFSOC Trace Anhydrite
6170-6182	70%	Limestone - medium gray, marly, graded to marlstone
	30%	Shale - as above Trace Anhydrite

RON,

HERE'S QUINTANA'S RESPONSE TO THE RECENT "CONFIDENTIAL" ISSUE.

THE ARE APPARENTLY WILLING TO PROVIDE THE REPORT, BUT HAVE CHOSEN TO WITHOLD INFO REQUIRED BY THE REPORT.

THEY HAVE PROVIDED LOGS

ACTION, IF ANY?

6-2-87

Ron retained a copy of this and the WCR.

6-3-87

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

16

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED DEC 3 1987 DIVISION OF OIL, GAS & MINING

120839

5. LEASE DESIGNATION AND SERIAL NO. U-57469 POW-Ismy
6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
7. UNIT AGREEMENT NAME N/A
8. FARM OR LEASE NAME DEADMAN CANYON FEDERAL
9. WELL NO. #2-20
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Section 20, T37S-R24E

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR QUINTANA PETROLEUM CORPORATION (303) 68[illegible]

3. ADDRESS OF OPERATOR 1050 - 17th Street, Suite 400, Denver, Colorado 80265

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 500' FSL & 780' FEL (SE SE Section 20)
At top prod. interval reported below Same
At total depth Same

CONFIDENTIAL

14. PERMIT NO. 43-037-31303 DATE ISSUED 1/8/87
12. COUNTY OR PARISH San Juan 13. STATE Utah

15. DATE SPUDDED 1/24/87 16. DATE T.D. REACHED 2/4/87 17. DATE COMPL. (Ready to prod.) 2/20/87 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5605' GR, 5619' KB 19. ELEV. CASINGHEAD 5605'

20. TOTAL DEPTH, MD & TVD 6182' 21. PLUG, BACK T.D., MD & TVD 5957' PBTD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY → ROTARY TOOLS 0'-6182' CABLE TOOLS N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5878'-5887' Ismay fm.

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL; LDT/CNL; BHC Sonic; Dipmeter; CBL/VDL/GR/CCL 2-20-87 2-23-87 LITHICAL CEMENT EVALUATION SPECTRAL DENSITY DSN II LOG COMPENSATED ACOUSTIC VELOCITY MUD LOG 2-13-87

27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	40# & 36#	2013.46'	12¼"	560 sxs Lite & 200 sxs "B"	None
5 1/2"	15.5# & 17#	6012.54	8 3/4"	320 sxs "H"	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5861.25'	5862.25'

31. PERFORATION RECORD (Interval, size and number)
5878'-5887', 4" casing gun, 4 jspf

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION flow test 2/21/87 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) SI - WO facilities

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2/24/87	1	12/64"	→	11.7	17.2	.3	1470

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
740	--	→	281 BOPD	413 MCFD	7.2 BWPD	58.28°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold (gas vented during test)

TEST WITNESSED BY R. C. Lynch

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J. Williams TITLE Production Technician DATE 5/18/87 amended 5/28/87 J. Williams

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
NO CORES.			
DST #1: 5790'-5815' (Times: 30/60/60/120) IHP 3089 FHP 3075 IFP 633-853 FFP 798-1005 ISIP 2396 FSIP 2390 BHT 138°F DP recovery: 820' condensate, 58° gravity at 65°F. Sampler: No recovery			IF: Opened w/strong blow, GTS in 4 min, press steadily incr to 260 psi on 3/4" ck for full flow period.* FF: Opened w/strong blow, press steadily incr to 295 psi in 60 min. Est 4.5 MMCFPD. *Est 3.9 MMCFPD

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
	LOG TOPS	
Shinarump	2583'	
Hermosa	4664'	
Gothic Shale	6042'	
Desert Creek	6066'	
Akah	6161'	

RECEIVED AUG 12 1988 DIVISION OF OIL, GAS & MINING

RECEIVED AUG 12 1988 DIVISION OF OIL, GAS & MINING

(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: U-57469

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: DEADMAN CANYON FEDERAL

9. WELL NO.:

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 20, T37S-R24E

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

OIL WELL ☐ GAS WELL ☐ OTHER CENTRAL TANK BATTERY

2. NAME OF OPERATOR: QUINTANA PETROLEUM CORPORATION (303)628-9211

3. ADDRESS OF OPERATOR: 1050 - 17th Street, Suite 400, Denver, Colorado 80265

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface

Central Tank Battery located in Section 20, T37S-R24E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.):

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) NTL-2B	X			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

In accordance with NTL-2B, Quintana Petroleum Corporation requests permission to store produced water from the Deadman Canyon wells (Deadman Canyon Fed. #1-20, #2-20 & #1-28) in two tanks at the central battery location and dispose of the water at an approved disposal site. An average of ±120 barrels of water is produced monthly by these wells. A water analysis is being done and will be forwarded when available.

Note: To date, four loads of produced water have been removed from the tanks as follows:

Date	Amount	Hauled By	Disposal Pit
4/25/88	200 bbls	Wrightway Trucking Fluids Division	Hatch Disposal Hatch, Utah
5/29/88	210 bbls	Same	Same
7/14/88	120 bbls	Same	Same
8/9/88	60 bbls	Same	Same

Copies of the tickets can be provided if required.

18. I hereby certify that the foregoing is true and correct

SIGNED J. Williams TITLE Production Technician DATE 8/10/88

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Federal Approval of this Action Is Necessary

Accepted by the State of Utah Division of Oil, Gas and Mining
Date: 8-16-88
By: [illegible]

cc: State of Utah - DOGM

Federal Approval of this Action is Necessary

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR QUINTANA PETROLEUM

ADDRESS P. O. BOX 3331
HOUSTON, TEXAS 77253

OPERATOR ACCT. NO. N 9485

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
D	10695	11010	43-037-31303	DEADMAN CYN FED. 2-20	SESE	20	37S	24E	SAN JUAN	1-24-87	
WELL 1 COMMENTS:											
D	10714	11010	43-037-31306	DEADMAN CYN FED. 1-28	NWNW	28	37S	24E	SAN JUAN	4-10-87	
WELL 2 COMMENTS: DEADMAN (UPPER ISMAY) UNIT EFFECTIVE AUGUST 1, 1989. THESE TWO WELLS ARE NOW A PART OF THE UNIT. ENTITY CHANGE EFFECTIVE AUGUST 1, 1989. QUINTANA IS GOING TO REPORT THE PRODUCTION OF THESE WELLS UNDER THE NEW ENTITY 11010.											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

**BOB RITCHIE NOTIFIED OF NEW ENTITY.

LCR
Signature

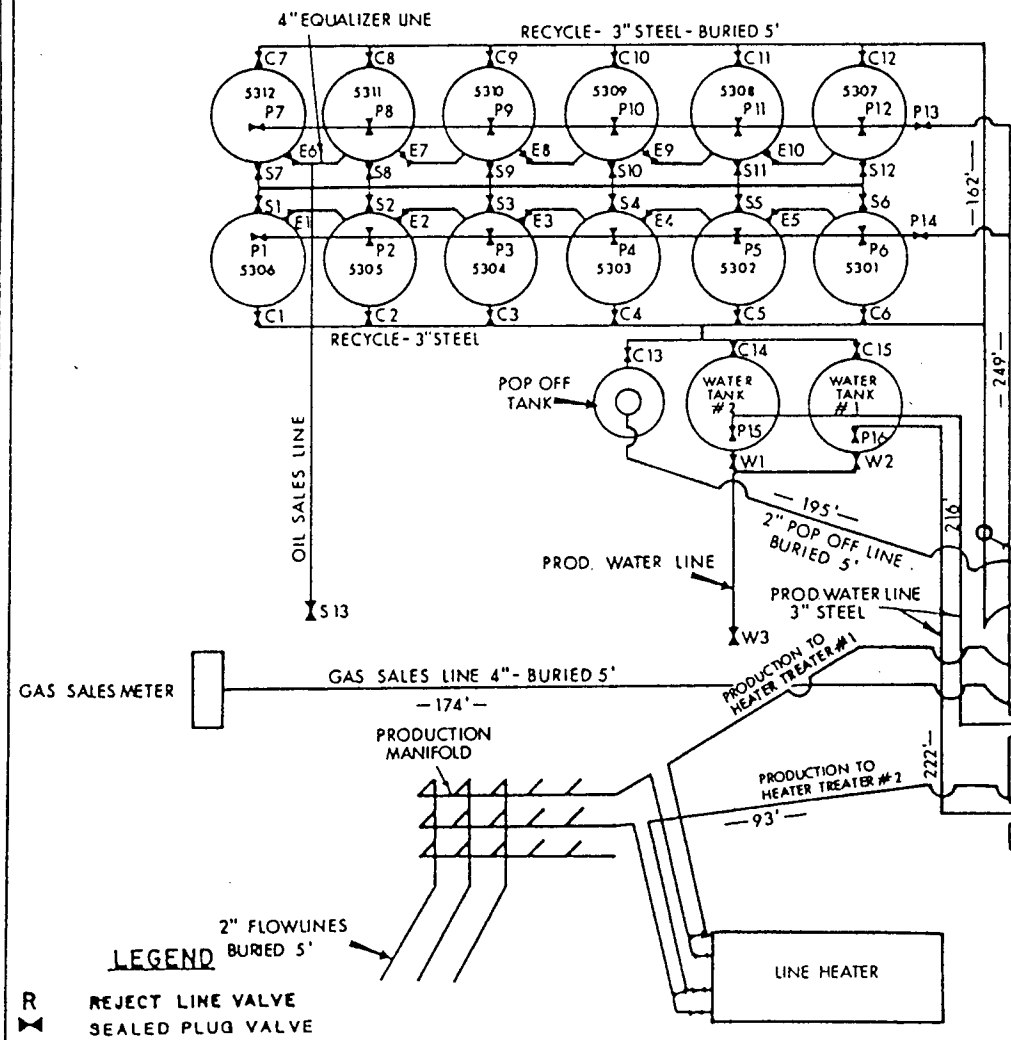
ADMIN. ANALYST
Title

9-25-89
Date

Phone No. (713) 651-8812

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)



VALVE STATUS

CLOSED SYSTEM

IN PRODUCTION MODE:
- Open valves include P14, P15, P16, P1, E1 through E10.
- Closed valves include P2 through P13, C1 through C18, S1 through S13, W1 through W3
- This reflects valve position in production mode for Tank #5306. Similar valve positions would exist under production mode for other tanks

IN SALES MODE:
- Open valves include P14, P1, E1 through E10, S1, S13, P15 and P16
- Closed valves include P2 through P13, C1 through C18, S2 through S12, W1 through W3.
- This reflects valve position in sales mode for Tank #5306. Similar valve positions would exist under sales mode for other tanks.

IN CIRCULATING MODE:
- Open valves include all production mode open valves, C1, C16 through C18.
- Closed valves include all closed valves in production mode.
- This reflects valve position in circulating mode for Tank #5306. Similar valve positions would exist under circulating mode for other tanks

IN WATER DISPOSAL MODE:
- Open valves include all production mode open valves [illegible] or W2, W3.
- Closed valves include all closed valves in the production mode

LEGEND

R	REJECT LINE VALVE
⋈	SEALED PLUG VALVE
P	PRODUCTION VALVE
C	CIRCULATING OR DRAIN VALVE
E	EQUALIZING VALVE
S	SALES VALVE

Quintana
1050 17th St #400
Denver, Colorado
80265

DEADMAN CANYON FIELD
Site Security Diagram For Production Facility

Section 20 T 37S R 24 E
San Juan Co., Utah
Lease #UTU-57469

Deadman Canyon Federal
37 S 24 E Sec 20

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

JEANNIE SNIDER
QUINTANA PETROLEUM CORP
1325 S COLORADO BLVD B411
DENVER CO 80222

UTAH ACCOUNT NUMBER: N9485

REPORT PERIOD (MONTH/YEAR): 11 / 94

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
NORTH CHAPITA FED. 1-36 4304731795	10745	08S 22E 36	MVRD			U-56960	(Badlands Unit)	BLM Aprv. 1-25-95
LITTLE BONANZA 1-4 4304731854	10937	09S 24E 4	NESE WSTC			U-54017	(C.A. UTU71692)	BLM Aprv. 1-25-95
BADLANDS FEDERAL 1-31 4304731857	10960	08S 23E 31	MVRD			U-61401	(Badlands Unit)	BLM Aprv. 1-25-95
CABALLO UNIT 1-15 4303731403	10994	36S 23E 15	ISMY			U-62953	(Caballo Unit)	"
DEADMAN CANYON FEDERAL #2-20 4303731303	11010	37S 24E 20	ISMY			U-57469	(Deadman Unit)	"
DEADMAN CANYON 3-20 4303731304	11010	37S 24E 20				U-57469	(Deadman Unit)	"
DEADMAN CANYON FED #1-28 4303731306	11010	37S 24E 28	ISMY			U-49678	(Deadman Unit)	"
BADLANDS FED #1-32 4304731869	11627	08S 23E 32	MVRD			U-56965	(Badlands Unit)	BLM Aprv. 1-25-95
Deadman Cyn. 1-20 *4303731293	10696	37S 24E 20	Ismy	GIW		U-57469	(Deadman Unit)	"
					TOTALS			

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date:

Name and Signature:

Telephone Number:

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

RECEIVED
DEC - 3 1995
DIV OF OIL, GAS & MINING

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
UTU58818A

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
DEADMAN CANYON FED. #2-20

2. Name of Operator
Ballard & Associates

9. API Well No.
43-037-31303

3. Address and Telephone No.
518 - 17th Street, Suite 1180, Denver, CO 80202 (303)595-8515

10. Field and Pool, or Exploratory Area
Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
500' FSL & 780' FEL
SE SE Section 20, T37S-R24E

11. County or Parish, State
San Juan County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[XX] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Change of Operator	[ ] Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Effective 7:00 a.m. December 1, 1994, the Operator of this well will change from Quintana Petroleum Corporation to:

Ballard & Associates
518 - 17th Street, Suite 1180
Denver, Colorado 80202

Effective December 1, 1994, Ballard & Associates is responsible under the terms and conditions of the lease for operations conducted on the leased lands or a portion threrof under Bureau of Land Management Bond UT1005 issued by Norwest Bank Billings letter of credit.

Seller/Owner/Lessee Name: QUINTANA PETROLEUM CORPORATION
Date: December 7, 1994
Signed: [signature]

cc: Utah DOGM

14. I hereby certify that the foregoing is true and correct
Signed H. J. Kagie Title Vice President Acquisitions Date 12/19/94

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

RECEIVED
JAN 6 1995
DIV OF OIL, GAS & MINING

IN REPLY REFER TO:
UT-922

January 25, 1995

Ballard & Associates, Inc.
518 17th Street, Suite 1180
Denver, Colorado 80202

Re: Deadman (Upper Ismay) Unit
San Juan County, Utah

Gentlemen:

On January 23, 1995, we received an indenture dated December 1, 1994, whereby Quintana Petroleum Corporation resigned as Unit Operator and Ballard & Associates, Inc. was designated as Successor Unit Operator for the Deadman (Upper Ismay) Unit, San Juan County, Utah.

The instrument is hereby approved effective January 25, 1995. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Deadman (Upper Ismay) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 1005 will be used to cover all operations within the Deadman (Upper Ismay) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Moab (w/enclosure)
Division of Oil, Gas & Mining
Branch of Mineral Leasing Adjudication
File - Deadman (Upper Ismay) Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

** INSPECTION ITEM UTU58818A DEADMAN CANYON (UPPER ISMAY)

UTU58818A	430373129300S1	1-20	NWSE	20	37S	24E	GIW	UTU57469	QUINTANA PETROLEUM CORPOR
UTU58818A	430373130600S1	1-28	NWNW	28	37S	24E	POW	UTU49678	QUINTANA PETROLEUM CORPOR
UTU58818A	430373130300S1	2-20	SESE	20	37S	24E	POW	UTU57469	QUINTANA PETROLEUM CORPOR
UTU58818A	430373130401S1	3-20 ST	SENW	20	37S	24E	TA	UTU57469	QUINTANA PETROLEUM CORPOR

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

JAN 6 1995
DIV OF OIL, GAS & MINING

IN REPLY REFER TO:
UT-922

January 25, 1995

Ballard & Associates, Inc.
518 17th Street, Suite 1180
Denver, Colorado 80202

Re: Caballo Unit
San Juan County, Utah

Gentlemen:

On January 23, 1995, we received an indenture dated December 1, 1994, whereby Quintana Petroleum Corporation resigned as Unit Operator and Ballard & Associates, Inc. was designated as Successor Unit Operator for the Caballo Unit, San Juan County, Utah.

The instrument is hereby approved effective January 25, 1995. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Caballo Unit Agreement.

Your statewide (Utah) oil and gas bond No. 1005 will be used to cover all operations within the Caballo Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Moab (w/enclosure)
Division of Oil, Gas & Mining
Branch of Mineral Leasing Adjudication
File - Caballo Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

U-922:TAThompson:tt:01-25-95

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

RECEIVED
JAN 26 1995
DIV OF OIL, GAS & MINING

IN REPLY REFER TO:
UT-922

January 25, 1995

Ballard & Associates, Inc.
518 17th Street, Suite 1180
Denver, Colorado 80202

Re: Successor of Operator
Communitization Agreement (CA)
UTU71692
Uintah County, Utah

Gentlemen:

On January 23, 1995, we received an indenture dated December 1, 1994, whereby Quintana Petroleum Corporation resigned as Operator and Ballard & Associates, Inc. was designated as Successor Operator for CA UTU71692, Uintah County, Utah.

The instrument is hereby approved effective January 25, 1995. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under CA UTU71692.

Your statewide (Utah) oil and gas bond No. 1005 will be used to cover all operations within CA UTU71692.

It is requested that you notify all interested parties of the change in operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Vernal (w/enclosure)
[redacted]
File - CA UTU71692 (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

U-922:TAThompson:tt:01-25-95

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

RECEIVED
JAN 26 1995
DIV OF OIL, GAS & MINING

IN REPLY REFER TO:
UT-922

January 25, 1995

Ballard & Associates, Inc.
518 17th Street, Suite 1180
Denver, Colorado 80202

Re: Badlands Unit
Uintah County, Utah

Gentlemen:

On January 23, 1995, we received an indenture dated December 1, 1994, whereby Quintana Petroleum Corporation resigned as Unit Operator and Ballard & Associates, Inc. was designated as Successor Unit Operator for the Badlands Unit, Uintah County, Utah.

The instrument is hereby approved effective January 25, 1995. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Badlands Unit Agreement.

Your statewide (Utah) oil and gas bond No. 1005 will be used to cover all operations within the Badlands Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Vernal (w/enclosure)
Division of Oil, Gas & Mining
Branch of Mineral Leasing Adjudication
File - Badlands Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

U-922:TAThompson:tt:01-25-95

BALLARD & ASSOCIATES, INC.

P. O. Box 20174
Billings, Montana 59104
(406) 259-8790

W. W. Ballard
President

518 17th St., Suite #1180
Denver, Colorado 80202
(303) 595-8515

H. J. Kagie
Vice President

December 29, 1994

State of Utah
Division of Oil, Gas & Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, UT 84180-1204

Re: Change of Operator

Dear Sir/Madam:

Enclosed please find Sundry Notices and Reports on Wells submitted to the Bureau of Land Management to change operator from Quintana Petroleum Corporation to Ballard & Associates, Inc.

If you require additional information please contact me at (303) 595-8515.

Sincerely,

Jodie Sundquist

Jodie Sundquist
Production/Operation Technician

/jls

Enclosure

RECEIVED
- 3 1995
DIV OF OIL, GAS & MINING

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:
1- LEC ✓ 6-AH
2- LWP 7-PL
3- BJS 8-SJ ✓
4- VLC 9-FILE
5- RJF ✓
6- LWP

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XXX Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 12-1-94)

TO (new operator) BALLARD & ASSOCIATES INC
(address) 518 - 17TH ST STE 1180
DENVER CO 80202
JODIE SUNDQUIST
phone (303) 595-8515
account no. N 0895 (1-30-95)

FROM (former operator) QUINTANA PETROLEUM CORP
(address) 1325 S COLORADO BLVD B411
DENVER CO 80222
JEANNIE SNIDER
phone (303) 629-9559
account no. N 9485

Well(s) (attach additional page if needed):

Name	API	Entity	Sec	Twp	Rng	Lease Type
SEE ATTACHED	037-31303					

OPERATOR CHANGE DOCUMENTATION

Yes 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 1-3-95)

Yes 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 1-3-95)

Yes 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes) no ____ If yes, show company file number: #172063

Yes 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.

Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (1-30-95)

Yes 6. Cardex file has been updated for each well listed above. 2-9-95

Yes 7. Well file labels have been updated for each well listed above. 2-9-95

Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (1-30-95)

Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

OVER

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

Yes/N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

____ 2. A copy of this form has been placed in the new and former operators' bond files.

____ 3. The former operator has requested a release of liability from their bond (yes/no) ____. Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

2/9/95 DTS

N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

FILMING

✓ 1. All attachments to this form have been microfilmed. Date: February 21 19 95

FILING

____ 1. Copies of all attachments to this form have been filed in each well file.

____ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

Bhm Aprv. eff. 1-25-95

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

KRISTI A STOVER
BALLARD & ASSOCIATES INC
518 17TH ST STE 400
DENVER CO 80202

UTAH ACCOUNT NUMBER: N0895

REPORT PERIOD (MONTH/YEAR): 3 / 97

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name API Number Entity Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
✓NORTH CHAPITA FED. 1-36 4304731795 10745 08S 22E 36	MVRD			U56960	Badlands Unit	
✓BADLANDS FEDERAL 1-31 4304731857 10960 08S 23E 31	MVRD			U61401	"	
✓CABALLO UNIT 1-15 4303731403 10994 36S 23E 15	ISMY			U62953	Caballo Unit	
✓DEADMAN CANYON FEDERAL 2-20 4303731303 11010 37S 24E 20	ISMY			U57469	Deadman (Upper Ismay) Unit	
✓DEADMAN CANYON 3-20 4303731304 11010 37S 24E 20				U57469	"	
✓DEADMAN CANYON FED 1-28 4303731306 11010 37S 24E 28	ISMY			U49678	"	
✓BADLANDS FEDERAL 1-32 4304731869 11627 08S 23E 32	MVRD			U56965	Badlands Unit	
✓Deadman Cyn Fed. 1-20 4303731293 10696 37S 24E 20	ISMY / GIW			U57469	Deadman (Upper Ismay) Unit	
			TOTALS			

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge. Date:

Name and Signature: Telephone Number:

(12/93)

Return recorded cop.
to:
Welborn Sullivan Me
& Tooley, P.C.
1775 Sherman Street
Suite 1800
Denver CO 80203

AFFIDAVIT OF CONVERSION AND MERGERS

STATE OF COLORADO)
) SS
CITY AND COUNTY OF DENVER)

KNOW ALL MEN BY THESE PRESENTS, on this date personally appeared before me H. J. Kagie, who, being first duly sworn, did depose and say:

1. I am Senior Vice President of Ballard and Associates, Inc., a Montana corporation (herein "BAI"), whose principal place of business is 845 12th Street West, Billings, Montana 59102. I am over the age of 18 years and have personal knowledge of all the matters set forth in this Affidavit.

2. BAI is sole Manager or sole General Partner of the following entities as set forth in the table:

Name of Entity	Jurisdiction of Organization	Form of Entity	Manager or General Partner
Ballard Petroleum LLC	Montana	limited liability company	Manager
Ballard Energy (Delaware) LLC	Delaware	limited liability company	Manager
Ballard Energy (Delaware) LP	Delaware	limited partnership	General Partner
Ballard Energy 1992 Limited Partnership	Montana	limited partnership	General Partner

3. Effective March 19, 1997, Ballard Energy 1992 Limited Partnership (herein "BELP") was merged with and into Ballard Energy (Delaware) LP (herein "Ballard Delaware" and, together with BELP, the "Constituent LP's"), pursuant to that certain Agreement and Plan of Merger dated March 19, 1997 among the Constituent LP's (the "LP Merger Agreement"), and Section 17-211 of the Delaware Revised Uniform Limited Partnership Act and Sections 35-10-641 through 643, inclusive, of the Montana Code Annotated (the "LP Merger"). The LP Merger Agreement was duly authorized, approved, executed and delivered by each LP Constituent in accordance with its governing documents and applicable law. Attached hereto as Exhibit A is a true and correct copy of the Certificate of Merger as filed in the Office of the Secretary of State, State of Delaware, at 2:30 p.m. on March 19, 1997, evidencing the LP Merger.

4. Effective March 19, 1997, Ballard Delaware was converted into Ballard Energy (Delaware) LLC (herein "Delaware LLC" and, together with Ballard Delaware, the "Conversion Constituents"), pursuant to Section 17-219 of the Delaware Revised Uniform Limited Partnership Act and Section 18-214 of the Delaware Limited Liability Company Act (the Conversion"). The Conversion was duly authorized and approved by each Conversion Constituent in accordance with its governing documents and applicable law. Attached hereto as Exhibit B is a true and correct copy of the Certificate of Conversion as filed in the Office of the Secretary of State, State of Delaware, at 2:35 p.m. on March 19, 1997, evidencing the Conversion.

5. Effective March 20, 1997, Ballard Energy (Delaware) LLC (herein "Delaware LLC") was merged with and into Ballard Petroleum LLC (herein "Ballard Petroleum" and, together with Delaware LLC, the "Constituent LLC's"), pursuant to that certain Agreement and Plan of Merger dated March 20, 1997 among the Constituent LLC's (the "LLC Merger Agreement"), and Section 18-209 of the Delaware Limited Liability Company Act and Section 35-8-1201 of the Montana Code Annotated (the "LLC Merger"). The LLC Merger Agreement was duly authorized, approved, executed and delivered by each

LLC Constituent in accordance with its governing documents and applicable law. Attached hereto as Exhibit C is a true and correct copy of the Certificate of Merger as filed in the Office of the Secretary of State, State of Delaware, at 1:30 p.m. on March 20, 1997, evidencing the LP Merger.

6. Complete copies of the foregoing merger and conversion documents may be requested in writing from Ballard and Associates, Inc., 845 12th Street West, Billings, Montana 59102; Attention: W. W. Ballard.

7. Where necessary for recording purposes, Exhibit D is attached hereto to describe properties located within those states requiring such descriptions and owned by BELP immediately prior to the described conversion and mergers and which, as a result thereof, are owned by Ballard Petroleum LLC, effective as of March 20, 1997, at 1:30 p.m., the effective date of the LLC Merger.

Dated March 21, 1997.

H. J. Kagie

H. J. Kagie

WITNESSES:

Mary Morris-Stacy

Mary Morris-Stacy

Barbara Woods

Barbara Woods

BE IT REMEMBERED that the undersigned, a Notary Public duly qualified, commissioned, sworn and acting in and for the County and State aforesaid, hereby certifies that, on this 21st day of March, 1997, there appeared before me H. J. Kagie, and that:

[COLORADO, OKLAHOMA, UTAH, WYOMING]

The foregoing instrument was acknowledged before me on this date by H. J. Kagie and at the same time the Affiant was duly sworn to the foregoing affidavit.

[MONTANA, NORTH DAKOTA]

On this day before me, a Notary Public of said State, duly commissioned and sworn, personally appeared such person, known to me, and, being duly sworn to the foregoing instrument, acknowledged to me that he executed the within instrument.

Given under my hand and official seal this 21st day of March, 1997.

My Commission Expires: My Commission Expires March 22, 1999

Jacquie Myers

Notary Public

JACQUIE MYERS NOTARY PUBLIC STATE OF COLORADO

BALLARD PETROLEUM LLC

W. W. Ballard
President, Director

Billings, Montana

621 17th Street,
Suite 1800
Denver, Colorado 80293

(303) 675-0300 Office
(303) 675-0400 Facsimile

H. J. Kagie
Sr. Vice President, Director

Denver, Colorado

FAX TRANSMITTAL

****
The information contained in this facsimile message is legally privileged and confidential information intended solely for the use of the persons or entities named below. If you are not such persons or entities, you are hereby notified that any distribution, dissemination or reproduction of this facsimile message is strictly prohibited. If you have received this message in error, please immediately call us collect at (303) 595-8515.
****

TO: Lisha Cordoba

FAX: 801-359-3940

FROM: Bill Donovan

FAX: 303-675-0400

NUMBER OF PAGES INCLUDING THIS SHEET: 3

COMMENTS:

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

In Reply Refer To:
3100
U-20544 et al
(UT-932)

APR 7 1997

NOTICE

Ballard Petroleum LLC 1050 Seventeenth Street, Suite 2500 Denver, CO 80265	: : :	Oil and Gas

Mergers Recognized

Acceptable evidence has been filed in this office concerning the merger of Ballard Energy 1992 Limited Partnership into Ballard Energy (Delaware) LP. Subsequently, Ballard Energy (Delaware) LP was converted to Ballard Energy (Delaware) LLC. Finally, Ballard Energy (Delaware) LLC merged into Ballard Petroleum LLC with Ballard Petroleum LLC being the surviving entity.

For our purposes, the final merger is recognized effective March 20, 1997, the date of approval by the Delaware Secretary of State.

The following oil and gas lease and right-of-way files have been noted as to the merger.

U-20544	Deadman - U-57469	Ceballo - U-62953	U-62073 (ROW)
Deadman - U-49678	U-58726	UTU-64422	U-63959 (ROW)
U-54017	U-61400	UTU-65471	U-63980 (ROW)
Badlands - U-56960	Badlands - U-61401	UTU-65472	U-63996 (ROW)
Badlands - U-56965	U-62252	U-59127 (ROW)	UTU-65118 (ROW)

We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

The principal/obligor has already filed a rider changing the name on the statewide bond (BLM No. UT1005) to Ballard Petroleum LLC.

ROBERT LOPEZ

Group Leader,
Minerals Adjudication Group

RECEIVED
APR 08 1997
DIV. OF OIL, GAS & MIN

cc: Moab District Office
Vernal Field Office
San Juan Resource Area
MMS-Reference Data Branch, MS 3130, Box 5860, Denver, CO 80217
State of Utah, DOGM, Attn: Lisha Cordova (Ste 1210), Box 145801, SLC, UT 84114-5801
John F. Meck, Attorney-at-Law, 1775 Sherman St., Ste. 1800, Denver, CO 80203

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:	
1-LEC	6-LEC
2-GLH	7-KAS
3-DTS	8-SI
4-VLD	9-FILE
5-JRB	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XXX Change of Operator (~~well sold~~) ☐ Designation of Agent
☐ Designation of Operator XXX Operator Name Change ~~Only~~

The operator of the well(s) listed below has changed, **effective:** 3-20-97

TO: (new operator) BALLARD PETROLEUM LLC
(address) 621 17TH ST STE 1800
DENVER CO 80293
Phone: (303)675-0300
Account no. N2310 (7-18-97)

FROM: (old operator) BALLARD & ASSOCIATES INC
(address) 518 17TH ST STE 400
DENVER CO 80202
Phone: (303)675-0300
Account no. N0895

WELL(S) attach additional page if needed: *GIW (CABALLO, BADLANDS & DEADMAN (UPPER ISMAY) UNITS

	*DEADMAN CYN FED 1-20		43-037-31293		10696		20		37S		24E		U57469
Name:	NORTH CHAPITA FED 1-36	API:	43-047-31795	Entity:	10745	S	36	T	8S	R	22E	Lease:	U56960
Name:	BADLANDS FED 1-31	API:	43-047-31857	Entity:	10960	S	31	T	8S	R	23E	Lease:	U61401
Name:	CABALLO UNIT 1-15	API:	43-037-31403	Entity:	10994	S	15	T	36S	R	23E	Lease:	U62953
~~Name:~~	DEADMAN CYN FED 2-20	API:	43-037-31303	Entity:	11010	S	20	T	37S	R	24E	Lease:	U57469
Name:	DEADMAN CANYON 3-20	API:	43-037-31304	Entity:	11010	S	20	T	37S	R	24E	Lease:	U57469
Name:	DEADMAN CYN FED 1-28	API:	43-037-31306	Entity:	11010	S	28	T	37S	R	24E	Lease:	U49678
Name:	BADLANDS FEDERAL 1-32	API:	43-047-31869	Entity:	11627	S	32	T	08S	R	23E	Lease:	U56965

OPERATOR CHANGE DOCUMENTATION

Lec 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Rec'd 7-17-97)

Lec 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 7-17-97)

Lec 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) _____ If yes, show company file number: #LC018225 (eff. 3-17-97)

Lec 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.

Lec 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. (7-18-97) *UIC Program Updated.

Lec 6. **Cardex** file has been updated for each well listed above. (7-18-97)

Lec 7. Well **file labels** have been updated for each well listed above. (7-18-97)

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (7-18-97)

Lec 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

c:\dons\wpdocs\forms\operchng

- OVER -

OPERATOR CHANGE WORKSHEET (continued) - Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) ____ If entity assignments were changed, attach copies of Form 6, Entity Action Form.

N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

N/A/Lec 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.

__ 2. A **copy of this form** has been placed in the new and former operator's bond files.

__ 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) _____, as of today's date _____. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

N/A 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
OCS 7/21/97

N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated _____ 19 __, of their responsibility to notify all interest owners of this change.

FILMING

✓ 1. All attachments to this form have been **microfilmed**. Today's date: 7-30-97.

FILING

__ 1. **Copies** of all attachments to this form have been filed in each **well file**.

__ 2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

COMMENTS

970718 Blm Aprv. eff. 3-20-97. (No official "Unit Operator Changes" copy of Blm Aprv. Merger letter will be filed in unit files)

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
UTU-58818A

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or No.
N/A

8. Well Name and No.
Deadman Canyon Federal 1-20, 2-20, 1-28 3" Run

9. API Well No.
43-037-31303

10. Field and Pool, or Exploratory Area
Deadman Canyon

11. County or Parish, State
SAN JUAN, Utah

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
BALLARD PETROLEUM, LLC

3a. Address
845 12TH STREET WEST, BILLINGS, MT 59102

3b. Phone No. *(include area code)*
406.259.8790

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
NWSW, SEC 20, T37S, R24E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other **Exception to standard calibration**
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Pursuant to a request from Western Gas Resources, Ballard Petroleum LLC requests permission to perform semi-annual meter calibration for the subject well. The monthly gas volume for May, 2000 was 1258 MCF.

ATTACHMENT: Western Gas Resources Letter.

CC: w/attachment: State of Utah

RECEIVED
JUN 28 2000
DIVISION OF OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Janet Harmon

Title **Operations Assistant**

Signature Janet Harmon

Date **6/26/00**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Western Gas Resources.

San Juan River Plant

Ballard and Associates
P.O. Box 577
Laurel, MT. 59044

Re: Caballo 1-15 and Deadman Canyon 3" and 6" runs Meter Numbers 91601118,91601121,91601109

Dear Sir or Madam:

Due to declining volumes and increased accuracy of our measurement points, I would like to request that a Sundry Notice be sent to the Bureau of Land Management requesting a reduction in settlement frequency from a quarterly to a semi-annual time frame. This will only be requested on wells producing less than 100 mcf/day. Listed above are the well name and WGR meter number corresponding to said well criteria. Please mail the attached Sundry notice to the BLM District office at BLM 82 E Dogwood Moab, Ut 84532 Attn: Mr. Eric Jones. If you have any questions, feel free to contact me at the number listed below. Thank you for your time.

Sincerely,

Tim Bates

Tim Bates
Field Supervisor
San Juan River System

99 Rd. 6500 • P.O. Box 70 • Kirtland, New Mexico 87417 • (505) 598-5601

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or No.
N/A

8. Well Name and No.
Deadman Canyon 6" Run

9. API Well No.
43-037-31303

10. Field and Pool, or Exploratory Area
Deadman Canyon

11. County or Parish, State
SAN JUAN, Utah

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
BALLARD PETROLEUM, LLC

3a. Address
845 12TH STREET WEST, BILLINGS, MT 59102

3b. Phone No. *(include area code)*
406.259.8790

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
NWSW, SEC 20, T37S, R24E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other **Exception to standard calibration**
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Pursuant to a request from Western Gas Resources, Ballard Petroleum LLC requests permission to perform semi-annual meter calibration for the subject well. The monthly gas volume for May, 2000 was 64 MCF.

ATTACHMENT: Western Gas Resources Letter.

CC: w/attachment: State of Utah

RECEIVED
JUN 28 2000
DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Janet Harmon

Title **Operations Assistant**

Signature Janet Harmon

Date **6/26/00**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Western Gas Resources.

San Juan River Plant

Ballard and Associates
P.O. Box 577
Laurel, MT. 59044

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Sincerely,

Tim Bates

Tim Bates
Field Supervisor
San Juan River System

99 Rd. 6500 • P.O. Box 70 • Kirtland, New Mexico 87417 • (505) 598-5601

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

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SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
U57469 + U49678

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or No.
~~N/A~~ Deadman UTU58818A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Deadman Canyon 6" Run 1-20, 2-2, 1-25

2. Name of Operator
BALLARD PETROLEUM, LLC

9. API Well No.
43-037-31303

3a. Address
845 12TH STREET WEST, BILLINGS, MT 59102

3b. Phone No. *(include area code)*
406.259.8790

10. Field and Pool, or Exploratory Area
Deadman Canyon

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
NWSW, SEC 20, T37S, R24E

11. County or Parish, State
SAN JUAN, Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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ATTACHMENT: Western Gas Resources Letter.

CC: w/attachment: State of Utah

RECEIVED
JUL 17 2000
DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)* **Janet Harmon**
Title **Operations Assistant**
Signature Janet Harmon
Date **6/26/00**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by William Stringer
Title Assistant Field Manager, Division of Resources
Date 7/7/2000
Office

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL ATTACHED

Western Gas Resources.

San Juan River Plant

Ballard and Associates
P.O. Box 577
Laurel, MT. 59044

Re: Caballo 1-15 and Deadman Canyon 3" and 6" runs Meter Numbers 91601118,91601121,91601109

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Sincerely,

Tim Bates

Tim Bates
Field Supervisor
San Juan River System

RECEIVED
JUL 17 2000
DIVISION OF
OIL, GAS AND MINING

99 Rd. 6500 • P.O. Box 70 • Kirtland, New Mexico 87417 • (505) 598-5601

Semi-annual Gas Meter Calibration
Ballard Petroleum, LLC
Deadman Canyon 6-inch Run
Deadman Unit (U-58818-A)
Wells: 1-20, U-57469
2-20, U-57469
1-28, U-49678
Sections 20 and 28 T37S, R24E
San Juan County, Utah

CONDITIONS OF APPROVAL

1. Approval of gas meter calibration on a semi-annual basis is granted.

2. Should production from this well improve to greater than 100 Mcf/day on a monthly basis, then this approval shall become void and calibration shall return to a quarterly schedule.

3. All other gas measurement requirements of Onshore Oil and Gas Order No. 5 (OOGO#5)shall remain in effect.

4. As always, if an error of greater than 2% is discovered during meter calibration, you must contact Jeff Brown of the Monticello Field Office at 435-587-1525, and submit corrected Monthly Reports of Operations as required by OOGO #5.

RECEIVED
JUL 17 2000
DIVISION OF
OIL, GAS AND MINING

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

In Reply Refer To:
3106
UTU-20544 et al
(UT-924)

FEB 01 2002

NOTICE

AEC Oil & Gas (USA) Inc.	:	Oil and Gas
950 17th Street	:	
Suite 2600	:	
Denver, Colorado 80202	:	

Merger Recognized

Acceptable evidence has been received in this office concerning the Merger of Ballard Petroleum LLC into AEC Oil & Gas (USA) Inc. with AEC Oil & Gas (USA) Inc. being the surviving entity.

For our purposes, the name change is recognized effective December 28, 2001.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the merger. The exhibit was compiled from a list of leases obtained from our computer program. We have not abstracted the lease files to determine if the entities affected by this name change hold an interest in the leases identified nor have we attempted to identify leases where the entities are the operator on the ground maintaining no vested recorded title or operating rights interests. We will be notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

A cross reference was accomplished with our records and found that the lease UTU-58726 was not identified on your listing. We will appropriately document those files with a copy of this Notice.

RECEIVED

FEB 04 2002

DIVISION OF
OIL, GAS AND MINING

Due to the name change, the name of the principal/obligor on the bond is required to be changed from Ballard Petroleum LLC to AEC Oil & Gas (USA) Inc.. You may accomplish this either by consent of surety rider on the original bond or by submitting a bond under the new name. The statewide bond is held in Utah.

Robert Lopez
Chief, Branch of
Minerals Adjudication

Enclosure
1. Exhibit of Leases (1 pp)

cc: Moab Field Office
Vernal Field Office
MMS, Reference Data Branch, MS3130, PO Box 5860, Denver CO 80217
State of Utah, DOGM, Attn: Jim Thompson (Ste. 1210), Box 145801, SLC UT 84114
Teresa Thompson (UT-922)
Joe Incardine (UT-921)

Exhibit of Leases

UTU-20544
UTU-40754
UTU-49678
UTU-54017
UTU-56960
UTU-56965
UTU-57469
UTU-58726
UTU-61400
UTU-61401
UTU-62252
UTU-62953
UTU-63182
UTU-64422
UTU-65471
UTU-65472
UTU-72045
UTU-72047
UTU-72644
UTU-72645
UTU-73038
UTU-73193
UTU-73417
UTU-73418
UTU-73419
UTU-73426
UTU-73426
UTU-73427
UTU-73428
UTU-73429
UTU-73430
UTU-73431
UTU-73432
UTU-73484
UTU-73446
UTU-73447
UTU-73448
UTU-73454
UTU-73485
UTU-73486
UTU-73487
UTU-73489
UTU-73490
UTU-73495
UTU-73498
UTU-73717
UTU-73942
UTU-74437
UTU-74439
UTU-74988
UTU-76042
UTU-76043
UTU-76475
UTU-76584
UTU-76705
UTU-76730
UTU-76816
UTU-76817
UTU-76850
UTU-77075
UTU-77267
UTU-77268
UTU-77269
UTU-77270
UTU-77271
UTU-77272
UTU-77273
UTU-77274
UTU-77275
UTU-77276
UTU-77277
UTU-77278
UTU-77300
UTU-77335
UTU-77540
UTU-77862
UTU-78025
UTU-78176
UTU-78223
UTU-78736
UTU-78987
UTU-78988
UTU-79020
UTU-79186

STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 11:32 AM 12/28/2001
010674344 - 2137895

CERTIFICATE OF MERGER OF MAPLELEAF TRANSACTIONS, INC. AND BALLARD PETROLEUM LLC INTO AEC OIL & GAS (USA) INC.

The undersigned corporation, formed and existing under and by virtue of the Delaware General Corporation Law, does hereby certify:

FIRST: The name and jurisdiction of incorporation of each of the entities which is to merge are as follows:

Name	Jurisdiction of Incorporation
AEC Oil & Gas (USA) Inc.	Delaware
Mapleleaf Transactions, Inc.	Delaware
Ballard Petroleum LLC	Delaware

SECOND: An Agreement and Plan of Merger has been approved, adopted, certified, executed and acknowledged by AEC Oil & Gas (USA) Inc. and Mapleleaf Transactions, Inc. in accordance with Section 264 of the Delaware General Corporation Law and by Ballard Petroleum LLC in accordance with Section 209 of the Delaware Limited Liability Company Act

THIRD: The name of the surviving corporation is AEC Oil & Gas (USA) Inc., a Delaware corporation.

FOURTH: The Certificate of Incorporation of the surviving corporation shall be the Certificate of Incorporation of AEC Oil & Gas (USA) Inc. as in effect immediately preceding the merger.

FIFTH: The merger of Mapleleaf Transactions, Inc. and Ballard Petroleum LLC into AEC Oil & Gas (USA) Inc. shall be effective on (i) 11:59 pm EST, December 31, 2001; and (ii) the day and hour of the filing of this Certificate of Merger in the office of the Secretary of State of Delaware.

SIXTH: The executed Agreement and Plan of Merger is on file at the principal place of business of the surviving corporation, which is AEC Oil & Gas (USA) Inc., 950 17th Street, Suite 2600, Denver, Colorado 80202.

SEVENTH: A copy of the Agreement and Plan of Merger will be furnished by the surviving corporation, on request and without cost, to any stockholder of Mapleleaf Transactions, Inc. and AEC Oil & Gas (USA) Inc. and to any member of Ballard Petroleum LLC.

AEC OIL & GAS (USA) INC.

By: Mary A. Viviano

Mary A. Viviano, Secretary

State of Delaware

SECRETARY OF STATE
DIVISION OF CORPORATIONS
P.O. BOX 898
DOVER, DELAWARE 19903

010674344

9343315 12-28-2001
WELBORN SULLIVAN MECK & TOOLE, P.C.
821 17TH STREET
STE 500
DENVER CO 80202
ATTN: AMY MANG X#

DESCRIPTION	AMOUNT
BALLARD PETROLEUM LLC	
3056340 0250N Merger; Non-Survivor	
Merger	50.00
Franchise Tax Balance	100.00
FILING TOTAL	150.00
MAPLELEAF TRANSACTIONS, INC.	
3340722 0250N Merger; Non-Survivor	
Franchise Tax Balance	30.00
FILING TOTAL	30.00
AEC OIL & GAS (USA) INC.	
2137895 0250S Merger; Survivor	
Merger	75.00
Receiving/Indexing	50.00
Data Entry Fee	20.00
Surcharge Assessment-New Castle	6.00
Page Assessment-New Castle Count	18.00
Expedite Fee, Same Day	200.00
FILING TOTAL	369.00
TOTAL CHARGES	549.00
TOTAL PAYMENTS	549.00
SERVICE REQUEST BALANCE	.00

BOND RIDER NO. 2

Attaching to and forming part of Oil and Gas or Geothermal Lease Bond, Bond No. RLB0002902, effective February 20, 2001, on behalf of Ballard Petroleum, LLC as Principal, in favor of the United States of America as Obligee, in the amount of Fifty Thousand and No/100 Dollars ($50,000.00).

It is understood and agreed that effective January 15, 2002, the name of the Principal has been changed under this bond to read:

AEC Oil & Gas (USA) Inc.

All other conditions and terms to remain as originally written.

Signed, Sealed and dated this 15th day of January, 2002

AEC Oil & Gas (USA) Inc.
Principal

Mary A. Viviano, Secretary

Mac By
Jonathan L. Grannis, Vice President,
Rockies Exploration

RLI Insurance Company
Surety

By
Greg E. Chilson, Attorney-in-Fact
8 Greenway Plaza, Suite 400
Houston, Texas 77046

SURETY DIVISION
9025 North Lindbergh Dr. • Peoria, IL 61615
(309) 692-1000 or (800) 645-2402

RLB0002902

POWER OF ATTORNEY

RLI Insurance Company

Know All Men by These Presents:

That the RLI INSURANCE COMPANY, a corporation organized and existing under the laws of the State of Illinois, and authorized and licensed to do business in all states and the District of Columbia does hereby make, constitute and appoint: GREG E. CHILSON in the City of HOUSTON, State of TEXAS, as Attorney-in-Fact, with full power and authority hereby conferred upon him to sign, execute, acknowledge and deliver for and on its behalf as Surety and as its act and deed, all of the following classes of documents to-wit:

$50,000.00

Indemnity, Surety and Undertakings that may be desired by contract, or may be given in any action or proceeding in any court of law or equity; policies indemnifying employers against loss or damage caused by the misconduct of their employees; official, bail and surety and fidelity bonds. Indemnity in all cases where indemnity may be lawfully given; and with full power and authority to execute consents and waivers to modify or change or extend any bond or document executed for this Company, and to compromise and settle any and all claims or demands made or existing against said Company.

The RLI INSURANCE COMPANY further certifies that the following is a true and exact copy of a Resolution adopted by the Board of Directors of RLI Insurance Company, and now in force to-wit:

"All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys-in-Fact or Agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile."

(Blue shaded areas above indicate authenticity)

IN WITNESS WHEREOF, the RLI Insurance Company has caused these presents to be executed by its PRESIDENT with its corporate seal affixed this

ATTEST: Camille J. Hensey
Corporate Secretary

RLI INSURANCE COMPANY
By: Jonathan E. Michael
President

State of Illinois)
) SS
County of Peoria)

On this 15 day of Jan., 2002 before me, a Notary Public, personally appeared Jonathan E. Michael and Camille J. Hensey, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as President and Corporate Secretary, respectively, of the said RLI INSURANCE COMPANY, and acknowledged said instrument to be the voluntary act and deed of said corporation.

Cherie L Montgomery
Notary Public

"OFFICIAL SEAL"
CHERIE L. MONTGOMERY
COMMISSION EXPIRES 02/02/04

SPA026 (10/01)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER CHANGE OF OPERATOR

8. WELL NAME and NUMBER:

2. NAME OF OPERATOR: BALLARD PETROLEUM LLC

9. API NUMBER:

3. ADDRESS OF OPERATOR: 950 17TH ST,#2600 CITY DENVER STATE CO ZIP 80202 PHONE NUMBER: (303) 389-5060

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A MERGER BETWEEN BALLARD PETROLEUM LLC AND AEC OIL & GAS (USA) INC. BECAME EFFECTIVE ON 12-31-01. A COPY OF THE CERTIFICATE OF MERGER IS ATTACHED. THE NAME OF THE SURVIVING CORPORATION IS AEC OIL & GAS (USA) INC., A DELAWARE CORPORATION, WHICH WILL CONTINUE TO OPERATE UNDER BOND RLB0002902 (UT-1005).

ATTACHED IS A LIST OF THE UTAH WELLS AFFECTED BY THIS MERGER. IT IS REQUESTED THE OPERATOR NAME BE CHANGED TO AEC OIL & GAS (USA) INC.

NAME ERIC MARSH TITLE: VICE PRESIDENT, BALLARD PETROLEUM LLC

SIGNATURE E Marsh DATE: 1/29/02

NAME (PLEASE PRINT) ERIC MARSH TITLE TEAM LEADER, AEC OIL & GAS (USA) INC.

SIGNATURE E Marsh DATE 1/29/02

(This space for State use only)

RECEIVED

FEB 04 2002

DIVISION OF
OIL, GAS AND MINING

(5/2000) (See Instructions on Reverse Side)

API	WELL NAME	LEASE	QUARTER/ QUARTER	SEC-TOWNSHIP-RANGE	COUNTY	WELL STATUS
43-037-30909	HORSEHEAD POINT 18-44	UTU40754	SESE	18-36S-25E	SAN JUAN	SI
43-037-31293	DEADMAN CANYON 1-20	UTU57469	NWSE	20-37S-24E	SAN JUAN	INJ
43-037-31303	DEADMAN CANYON 2-20	UTU57469	SESE	20-37S-24E	SAN JUAN	PROD
43-037-31304	DEADMAN CANYON 3-20	UTU57469	SENW	20-37S-24E	SAN JUAN	P&A
43-037-31306	DEADMAN CANYON 1-28	UTU49678	NWNW	28-37S-24E	SAN JUAN	SI
43-037-31403	1-15 CABALLO UNIT	UTU62953	NWNW	15-36S-23E	SAN JUAN	PROD
43-047-31795	NORTH CHAPITA 1-36	UTU56590	SWSW	36-8S-22E	UINTAH	PROD
43-037-31857	BADLANDS 1-31	UTU61401	SENW	31-8S-23E	UINTAH	P&A
43-047-31869	BADLANDS 1-32	UTU56965	SESE	32-8S-23E	UINTAH	PROD
43-047-33451	NORTH CHAPITA 24-31	UTU61401	SESW	31-8S-23E	UINTAH	PROD
43-047-33452	NORTH CHAPITA 44-30	UTU61400	SESE	30-8S-23E	UINTAH	PROD
43-047-33454	NORTH CHAPITA 44-36	UTU56960	SESE	35-8S-22E	UINTAH	PROD
43-049-30018	OIL HOLLOW 5-1	UTU77275	NWSW	5-11S-5E	UTAH	P&A
43-047-34084	FEDERAL 22-36	UTU56960	SENW	36-8S-22E	UINTAH	PROD
43-047-34085	FEDERAL 32-30	UTU61400	SWNE	30-8S-23E	UINTAH	PROD
43-047-33453	FEDERAL 44-31	UTU61401	SESE	31-8S-23E	UINTAH	PROD
43-047-34128	FEDERAL 24-36	UTU56960	SESW	36-8S-22E	UINTAH	APD
43-047-34180	FEDERAL 33-20	UTU77300	NWSE	20-8S-24E	UINTAH	APD
43-047-34182	FEDERAL 42-25	UTU65471	SENE	25-8S-22E	UINTAH	APD
43-047-34130	FEDERAL 41-36	UTU56960	NENE	36-8S-22E	UINTAH	APD
43-047-34016	FEDERAL 22-32	UTU56965	SENW	32-8S-23E	UINTAH	APD
43-047-34132	FEDERAL 43-36	UTU56960	NESE	36-8S-22E	UINTAH	APD
43-047-34181	FEDERAL 33-25	UTU65472	NWSE	25-8S-22E	UINTAH	APD
43-047-34179	FEDERAL 24-30	UTU61400	SESW	30-8S-23E	UINTAH	APD
43-047-34131	FEDERAL 43-31	UTU61401	NESE	31-8S-23E	UINTAH	APD
43-047-34127	FEDERAL 23-36	UTU56960	NESW	36-8S-22E	UINTAH	APD
43-047-34125	FEDERAL 22-36E	UTU78025	SENW	36-8S-23E	UINTAH	APD
43-047-34126	FEDERAL 23-31	UTU61401	NESW	31-8S-23E	UINTAH	APD
43-047-34178	FEDERAL 22-26	UTU76042	SENW	26-8S-23E	UINTAH	APD
43-047-34129	FEDERAL 41-31	UTU61401	NENE	31-8S-23E	UINTAH	APD

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold) — Designation of Agent

Operator Name Change — X — **Merger**

The operator of the well(s) listed below has changed, effective: **12-31-2001**

FROM: (Old Operator):	**TO:** (New Operator):
BALLARD PETROLEUM LLC	AEC OIL & GAS (USA) INC
Address: 950 17TH STREET, STE 2600	Address: 950 17TH STREET, STE 2600
DENVER, CO 80202	DENVER, CO 80202
Phone: 1-(303)-389-5015	Phone: 1-(303)-389-5015
Account No. N2310	Account No. N2085

CA No. **Unit:** **DEADMAN (UPPER ISMAY)**

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
DEADMAN CANYON FEDERAL 2-36	20-37S-24E	43-037-31303	11010	FEDERAL	OW	P
DEADMAN CANYON FEDERAL 3-20	20-37S-24E	43-037-31304	11010	FEDERAL	OW	TA
DEADMAN CANYON FEDERAL 1-28	28-37S-24E	43-037-31306	11010	FEDERAL	OW	S

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 02/04/2002
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 02/04/2002
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 02/04/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 764413-0143
5. If **NO**, the operator was contacted contacted on: N/A
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 12/28/2001
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: 12/28/2001
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 02/05/2002

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 02/04/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 02/04/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: RLB 0002902

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: N/A

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
   The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: U-57469
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: Deadman (Upper Ismay)
8. WELL NAME and NUMBER: Deadman Canyon Fed 2-20
9. API NUMBER: 4303731303
10. FIELD AND POOL, OR WILDCAT: Deadman Canyon

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER _____
2. NAME OF OPERATOR: Robert L. Bayless, Producer LLC
3. ADDRESS OF OPERATOR: 621 17th Street, Suite 1640, Denver, CO 80293-1640 PHONE NUMBER: 303-296-9900
4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0500 FSL 0780 FEL COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 20 37S 24E S STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

New Operator:
Robert L. Bayless, Producer LLC
621 17th Street, Suite 1640
Denver, CO 80293-1640

BLM Bond #: 40S23024BCA

NAME (PLEASE PRINT) Robert L. Bayless, Jr. TITLE Executive Manager
SIGNATURE _____ DATE 5/7/02

RECEIVED
JUN 03 2002
DIVISION OF
OIL, GAS AND MINING

173.10

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
UTU-57469

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
UTU58818A,DEADMAN CANYON

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
DEADMAN CANYON FEDERAL #2-20

2. Name of Operator
Robert L. Bayless, Producer LLC

9. API Well No.
43-037-31303

3a. Address
PO Box 168, Farmington, NM 87499

3b. Phone No. *(include area code)*
(505) 326-2659

10. Field and Pool, or Exploratory Area
ISMAY

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
500' FSL & 780' FEL, SE SE, Sec. 20, T37S, R24E

11. County or Parish, State
San Juan, Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☑ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, A Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Bayless plans to dispose of some of its produced water at the City of Blanding, Utah for dust control. Some of the water will still be disposed of at Tincup Mesa or Lisbon Valley Hazmat.

COPY SENT TO OPERATOR
Date: 7-3-02
Initials: CHD

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 6-26-02
BY: [illegible]
Attached Conditions

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*
THOMAS MCCARTHY

Title ENGINEER

Signature [illegible]

Date 6/10/02

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operation thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
JUN 10 2002
DIVISION OF
OIL, GAS AND MINING

Federal Approval of this Action is Necessary

Sundry Notice
Approval Conditions

Well Names: Deadman Canyon Federal 1-28, 1-20, 2-20
McCracken Springs 1-31, 4-31

Sundry Date: 6-10-02

Proposed Action: Use of Produced Water for Dust Control

Conditions of Approval:

This is a temporary approval, for one year, issued due to drought conditions being experienced in Utah. Refer to the attached letter from the Utah Division of Water Quality concerning restricted use by the City of Blanding.

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
UTU-57469

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
UTU58818A,DEADMAN CANYON

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
DEADMAN CANYON FEDERAL #2-20

2. Name of Operator
Robert L. Bayless, Producer LLC

9. API Well No.
43-037-31303

3a. Address
PO Box 168, Farmington, NM 87499

3b. Phone No. *(include area code)*
(505) 326-2659

10. Field and Pool, or Exploratory Area
ISMAY

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
500' FSL & 780' FEL, SE SE, Sec. 20, T37S, R24E

11. County or Parish, State
San Juan, Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☑ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, A Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Bayless plans to dispose of some of its produced water at the City of Blanding, Utah for dust control. Some of the water will still be disposed of at Tincup Mesa or Lisbon Valley Hazmat.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
JUN 14 2002
DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct

Name *(Printed/Typed)*
THOMAS MCCARTHY

Title ENGINEER

Signature Tom McCarthy

Date 6/10/02

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operation thereon.

Office

Title 18 U.C.S. Section 1001 and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

IN REPLY REFER TO
UT-922

June 18, 2002

Robert L. Bayless, Producer LLC
621 17th Street, Suite 1640
Denver, Colorado 80202

Re: Deadman (Upper Ismay) Unit
San Juan County, Utah

Gentlemen:

On June 6, 2002, we received an indenture dated May 1, 2002, whereby AEC Oil & Gas (USA) Inc. with a name change recognized to EnCana Oil & Gas (USA) Inc. resigned as Unit Operator and Robert L. Bayless, Producer LLC was designated as Successor Unit Operator for the Deadman (Upper Ismay) Unit, San Juan County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective June 18, 2002. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Deadman (Upper Ismay) Unit Agreement.

Your statewide (New Mexico) oil and gas bond No. 0883 will be used to cover all operations within the Deadman (Upper Ismay) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Moab (w/enclosure)
Division of Oil, Gas & Mining
Minerals Adjudication Group U-924
File - Deadman (Upper Ismay) Unit (w/enclosure)
Agr. Sec. Chron
Fluid Chron

UT922:TAThompson:tt:6/18/02

Results of query for MMS Account Number UTU58818A

Production	API Number	Operator	Well Name	Well Status	Lease or CA Number	Inspection Item	Township	Range	Section	Quarter/Quar
Production	4303731293	BALLARD PETROLEUM LLC	1-20 DEADMAN CANYON-	GIW	UTU57469	UTU58818A	37S	24E	20	NWSE
Production	4303731303	BALLARD PETROLEUM LLC	2-20 DEADMAN CANYON-	POW	UTU57469	UTU58818A	37S	24E	20	SESE
Production	4303731304	BALLARD PETROLEUM LLC	3-20 DEADMAN CANYON	TA	UTU57469	UTU58818A	37S	24E	20	SENW
Production	4303731306	BALLARD PETROLEUM LLC	1-28 DEADMAN CANYON-	POW	UTU49678	UTU58818A	37S	24E	28	NWNW

DISCLAIMER for online data: No warranty is made by the BLM for use of the data for purposes not intended by the BLM.

API	WELL NAME	LEASE	QUARTER/ QUARTER	SEC-TOWNSHIP-RANGE	COUNTY	WELL STATUS
43-037-30909	HORSEHEAD POINT 18-44	UTU40754	SESE	18-36S-25E	SAN JUAN	SI
43-037-31293	DEADMAN CANYON 1-20	UTU57469	NWSE	20-37S-24E	SAN JUAN	INJ
43-037-31303	DEADMAN CANYON 2-20	UTU57469	SESE	20-37S-24E	SAN JUAN	PROD
43-037-31304	DEADMAN CANYON 3-20	UTU57469	SENW	20-37S-24E	SAN JUAN	P&A
43-037-31306	DEADMAN CANYON 1-28	UTU49678	NWNW	28-37S-24E	SAN JUAN	SI
43-037-31403	1-15 CABALLO UNIT	UTU62953	NWNW	15-36S-23E	SAN JUAN	PROD
43-047-31795	NORTH CHAPITA 1-36	UTU56590	SWSW	36-8S-22E	UINTAH	PROD
43-037-31857	BADLANDS 1-31	UTU61401	SENW	31-8S-23E	UINTAH	P&A
43-047-31869	BADLANDS 1-32	UTU56965	SESE	32-8S-23E	UINTAH	PROD
43-047-33451	NORTH CHAPITA 24-31	UTU61401	SESW	31-8S-23E	UINTAH	PROD
43-047-33452	NORTH CHAPITA 44-30	UTU61400	SESE	30-8S-23E	UINTAH	PROD
43-047-33454	NORTH CHAPITA 44-36	UTU56960	SESE	35-8S-22E	UINTAH	PROD
43-049-30018	OIL HOLLOW 5-1	UTU77275	NWSW	5-11S-5E	UTAH	P&A
43-047-34084	FEDERAL 22-36	UTU56960	SENW	36-8S-22E	UINTAH	PROD
43-047-34085	FEDERAL 32-30	UTU61400	SWNE	30-8S-23E	UINTAH	PROD
43-047-33453	FEDERAL 44-31	UTU61401	SESE	31-8S-23E	UINTAH	PROD
43-047-34128	FEDERAL 24-36	UTU56960	SESW	36-8S-22E	UINTAH	APD
43-047-34180	FEDERAL 33-20	UTU77300	NWSE	20-8S-24E	UINTAH	APD
43-047-34182	FEDERAL 42-25	UTU65471	SENE	25-8S-22E	UINTAH	APD
43-047-34130	FEDERAL 41-36	UTU56960	NENE	36-8S-22E	UINTAH	APD
43-047-34016	FEDERAL 22-32	UTU56965	SENW	32-8S-23E	UINTAH	APD
43-047-34132	FEDERAL 43-36	UTU56960	NESE	36-8S-22E	UINTAH	APD
43-047-34181	FEDERAL 33-25	UTU65472	NWSE	25-8S-22E	UINTAH	APD
43-047-34179	FEDERAL 24-30	UTU61400	SESW	30-8S-23E	UINTAH	APD
43-047-34131	FEDERAL 43-31	UTU61401	NESE	31-8S-23E	UINTAH	APD
43-047-34127	FEDERAL 23-36	UTU56960	NESW	36-8S-22E	UINTAH	APD
43-047-34125	FEDERAL 22-36E	UTU78025	SENW	36-8S-23E	UINTAH	APD
43-047-34126	FEDERAL 23-31	UTU61401	NESW	31-8S-23E	UINTAH	APD
43-047-34178	FEDERAL 22-26	UTU76042	SENW	26-8S-23E	UINTAH	APD
43-047-34129	FEDERAL 41-31	UTU61401	NENE	31-8S-23E	UINTAH	APD

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DIVISION OF
OIL, GAS AND MINING

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

X **Change of Operator (Well Sold)** Designation of Agent

Operator Name Change Merger

The operator of the well(s) listed below has changed, effective: **05-01-2002**

FROM: (Old Operator):	**TO:** (New Operator):
AEC OIL & GAS USA INC	BAYLESS ROBERT L PRODUCERS LLC
Address: 950 17TH STREET, STE 2600	Address: P O BOX 168
DENVER, CO 80202	FARMINGTON, NM 87499
Phone: 1-(303)-623-2300	Phone: 1-(505)-326-2659
Account No. N2085	Account No. N7950

CA NO. **Unit:** **DEADMAN (UPPER ISMAY)**

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
DEADMAN CANYON FEDERAL 2-20	20-37S-24E	43-037-31303	11010	FEDERAL	OW	P
DEADMAN CANYON FEDERAL 3-20	20-37S-24E	43-037-31304	11010	FEDERAL	OW	TA
DEADMAN CANYON FEDERAL 1-28	28-37S-24E	43-037-31306	11010	FEDERAL	OW	TA

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/03/2002
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/03/2002
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 06/21/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 850295400
5. If **NO**, the operator was contacted contacted on: N/A
6. (R649-9-2) Waste Management Plan received on: IN PLACE

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 06/18/2002

7. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 06/18/2002

8. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 06/21/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 06/21/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 40S23024BC

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: N/A

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER QUALITY

Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Don A. Ostler, P.E.
Director

288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
(801) 538-6146
(801) 538-6016 Fax
(801) 536-4414 T.D.D.
www.deq.state.ut.us Web

Water Quality Board
K.C. Shaw, P.E.
Chairman
William R. Williams
Vice-Chairman
Robert G. Adams
Nan Bunker
Ray M. Child, C.P.A.
John R. Cushing, Mayor
Neil K. Kochenour, M.D.
Dianne R. Nielson, Ph.D.
Ronald C. Sims, Ph.D.
Douglas E. Thompson, Mayor
J. Ann Wechsler
Don A. Ostler, P.E.
Executive Secretary

June 26, 2002

Mr. Lowell Braxton, Director
Division of Oil, Gas and Mining
Department of Natural Resources
1594 W North Temple, Suite 1210
Salt Lake City, UT 84114-5801

Dear ~~Mr. Braxton~~ Lowell:

Subject: Use of brine for dust suppression

This is in regards to a request made by the City of Blanding to use produced water on an unpaved road for dust suppression and to allow the road to be graded and recompacted to remove washboard. This request, as explained by Mr. Danny Fleming, City Water Superintendent, is related to the severe draught currently being experienced in southern Utah resulting in the unavailability of other sources of water.

The Division of Water Quality is certainly sensitive to the problems and special needs of rural communities of the State being brought on by the draught. We understand the brine will be used very conservatively based on the cost of transport. Therefore, we would not expect any runoff or pooling of brine to create any significant surface or ground water quality risk. Furthermore, the brine would be applied to less than one mile of roadway, and only for this year, assuming the draught will hopefully end.

Based on the above, we have no objection to the City applying the brine according to the restrictions contained herein. This is not to be construed as a precedent for the indiscriminant or otherwise unauthorized disposal of produced water from oil and gas wells.

Sincerely,

Don A. Ostler, P.E.
Director
Utah Division of Water Quality

DAO:FCP:bjr

Fpehrson\wp\producedwater a.doc

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JUN 27 2002
DIVISION OF
OIL, GAS AND MINING

WELBORN SULLIVAN MECK & TOOLEY, P.C.
ATTORNEYS AT LAW

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Denver, Colorado 80202
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Rebecca N. Welborn

Special Counsel
John F. Welborn
Norman S. Early, Jr.

Of Counsel
Robert F. Welborn

July 2, 2002

Mr. Jim Thompson
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Post Office Box 145801
Salt Lake City, UT 84114-5801

Re: AEC Oil & Gas (USA) Inc. name change to EnCana Oil & Gas (USA) Inc.

Dear Mr. Thompson:

Enclosed for filing with the Utah Division of Oil, Gas and Mining is a Certificate of Name Change from the Secretary of State of the State of Delaware certifying that AEC Oil & Gas (USA) Inc. changed its name to EnCana Oil & Gas (USA) Inc. on April 5, 2002, along with a list of the affected leases. Also enclosed is an additional copy of same which I would appreciate you stamping "filed" and returning to me in the enclosed self-addressed, stamped envelope provided for your convenience.

Thank you for your assistance in this matter. Should you have any questions concerning this letter or the enclosed, please do not hesitate to contact me at 303-376-4468.

Very truly yours,

Jerry G. McPeake

Jerry G. McPeake
Paralegal

/jm
Enclosures

RECEIVED
JUL 05 2002
DIVISION OF
OIL, GAS AND MINING

Delaware

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "AEC OIL & GAS (USA) INC.", CHANGING ITS NAME FROM "AEC OIL & GAS (USA) INC." TO "ENCANA OIL & GAS (USA) INC.", FILED IN THIS OFFICE ON THE FIFTH DAY OF APRIL, A.D. 2002, AT 4:12 O'CLOCK P.M.

Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

2137895 8100

AUTHENTICATION: 1858569

020418994

DATE: 06-27-02

STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 04:12 PM 04/05/2002
020221516 - 2137895

CERTIFICATE OF AMENDMENT OF CERTIFICATE OF INCORPORATION OF AEC OIL & GAS (USA) INC.

AEC Oil & Gas (USA) Inc., a Delaware corporation (the "Corporation") hereby certifies as follows:

1. The Board of Directors and Sole Stockholder of the Corporation have adopted the following resolution in accordance with Section 242 of the General Corporation Law of the State of Delaware, as amended:

> RESOLVED, that the Corporation's Certificate of Incorporation is hereby amended by deleting the FIRST paragraph of said certificate in its entirety and by substituting the following therefor:
>
> > "FIRST. The name of the Corporation is EnCana Oil & Gas (USA) Inc."

2. The capital of the Corporation shall not be reduced under or by reason of said amendment.

AEC OIL & GAS (USA) INC.

By: Mary A. Viviano
Mary A. Viviano, Secretary

Date: 4-5-02

Affected Leases (state)

AEC Oil & Gas (USA) Inc. changed its name to EnCana Oil & Gas (USA) Inc. effective, April 5, 2002. This name change affects all state land leases held in Utah by AEC Oil & Gas (USA) Inc. including the following:

GRAND COUNTY:

AEC Lease No.	Lessor	Lessee	Description
10601.000	ST UT ML 46758	Sonja V McCormick	Township 21 South, Range 18 East, SLM Section 32: All
10616.000	ST UT ML 46662	Sonja V McCormick	Township 21 South, Range 17 East, SLM Section 2: Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, S/2N/2, S/2 (All) Section 16: All Section 17: S/2SE/4 Section 36: All
10617.000	ST UT ML 46663	Sonja V McCormick	Township 21 South, Range 17 East, SLM Section 4: SE/4SW/4 Section 5: SW/4, W/2SE/4 Section 6: Lots 8, 9, 15, 16, SE/4 Section 7: Lots 1, 2, 3, E/NW/4, NE/4, NE/ Section 8: NW/4, NE/4SW/4
10622.000	ST UT ML 46664	Sonja V McCormick	Township 22 South, Range 18 East, SLM Section 9: Lot 1 Section 16: All
10853.000	ST UT ML 47575	Ballard Petroleum LLC	Township 21 South, Range 18 East, SLB&M Section 16: All
11768.000	ST UT 48143	Vern Jones	Township 22 South, Range 17 East, SLB&M Section 2: Lots 1, 2, 3, 4, S/2N/2, S/2
11769.000	ST UT 48144	Vern Jones	Township 22 South, Range 17 East, SLB&M Section 16: All
10686.000	ST UT ML 45868	Sonja V. McCormick	Township 23 South, Range 16 East, SLM Section 3: All - Bed of Green River Section 11: All - Bed of Green River Section 12: All - Bed of Green River

SAN JUAN COUNTY:

AEC Lease No.	Lessor	Lessee	Description
11318.000	ST UT ML 47813	Ballard Petroleum LLC	Township 36 South, Range 25 East, SLB&M Section 16: All
11319.000	ST UT ML 47815	Ballard Petroleum LLC	Township 37 South, Range 25 East, SLB&M Section 16: All
11320.000	ST UT ML 47805	Ballard Petroleum LLC	Township 22 South, Range 17 East, SLB&M Section 36: All

QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

43-037-31303

CONFIDENTIAL

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4178.0	4186.0	D	11.2	347	2.0	358	180	11.1	10.3	-.5			1.0	1	3
4180.0	4188.0	C	6.6	332	2.0	358	182	10.9	10.2	1.1			.4	1	3
4182.0	4190.0	B	12.2	3	2.0	357	182	10.7	10.2	1.3			1.4	1	3
4184.0	4192.0	B	16.5	10	2.0	357	179	10.3	10.1	1.4			2.0	1	3
4186.0	4194.0	B	3.9	247	2.1	356	176	10.3	10.0	.5	.1	-.6		1	0
4188.0	4196.0	A	3.7	236	2.1	356	173	10.4	10.0	.4	.1	-.6		1	0
4190.0	4198.0	A	1.9	319	2.1	355	171	10.4	10.0	.8	.7	-.1		1	0
4192.0	4200.0	B	7.3	346	2.1	355	168	10.5	10.0	.6	1.7	.0		1	0
4194.0	4202.0	B	7.3	350	2.2	354	166	10.5	10.0	.4	1.7	.2		1	0
4196.0	4204.0	B	1.8	210	2.2	354	164	10.5	10.0	.1	.2	-.2		1	0
4198.0	4206.0	B	2.0	208	2.3	354	161	10.6	10.0	.1	.2	-.2		1	0
4200.0	4208.0	A	2.4	193	2.3	353	158	10.7	10.1	.1	.1	-.1		1	0
4202.0	4210.0	A	2.9	200	2.3	353	153	10.8	10.2	.2	.0	-.2		1	0
4204.0	4212.0	A	3.4	194	2.4	352	147	10.9	10.3	.3	.0	-.3		1	0
4206.0	4214.0	B	3.3	181	2.4	351	142	11.0	10.4	.0			-.1	1	3
4208.0	4216.0	B	10.3	355	2.4	351	137	11.1	10.5	.3	2.0			1	4
4210.0	4218.0	A	7.3	243	2.4	351	134	11.2	10.6	.1	.9	-1.0		1	0
4212.0	4220.0	C	10.5	350	2.4	351	130	11.3	10.6	.2			1.8	1	3
4214.0	4222.0	B	1.4	296	2.4	351	125	11.3	10.5	.2			.4	1	3
4216.0	4224.0	D	2.4	158	2.4	351	119	11.2	10.5	-.1			.0	1	3
4218.0	4226.0	D	6.2	136	2.4	351	113	11.1	10.7	-.4			-.5	1	3
4220.0	4228.0	A	5.4	135	2.4	351	108	11.1	11.0	-.5	-.7	-.1		1	0
4222.0	4230.0	A	2.2	357	2.4	351	104	11.1	11.2	-.3	.3	.8		1	0
4224.0	4232.0	A	2.3	351	2.4	350	102	11.1	11.3	-.3	.3	.9		1	0
4226.0	4234.0	B	3.9	356	2.4	350	101	11.1	11.2	-.4	.3	1.2		1	0
4228.0	4236.0	A	4.9	326	2.4	350	99	11.0	11.0	-.3	.8	1.1		1	0
4230.0	4238.0	A	8.1	94	2.4	350	97	11.0	10.8	-1.8	-1.4	.5		1	0
4232.0	4240.0	A	9.4	95	2.3	350	93	10.9	10.7	-1.5	-1.7	.4		1	0
4234.0	4242.0	A	10.5	98	2.3	350	87	10.8	10.6	-1.6	-1.9	.1		1	0
4236.0	4244.0	B	5.1	360	2.3	350	80	10.8	10.6	-.9	-.2	1.4		1	0
4238.0	4246.0	B	3.5	194	2.2	349	69	10.9	10.7	.2			.1	1	3
4240.0	4248.0	B	9.1	146	2.1	349	60	11.0	10.7	.0	-.3	-1.3		1	0
4242.0	4250.0	D	8.0	123	2.0	348	52	11.0	10.8	.2			-.9	1	3
4244.0	4252.0	D	2.9	213	1.9	348	46	11.0	10.8	.1			.3	1	3
4246.0	4254.0	C	4.9	180	1.9	348	42	10.9	10.7		.5		.1	1	2
4248.0	4256.0	C	3.9	155	1.9	348	38	11.0	10.8		.1		-.1	1	2
4254.0	4262.0	A	6.4	118	1.8	346	24	11.2	10.9	1.0	-.2	-1.0		1	0
4256.0	4264.0	B	6.6	168	1.8	346	21	11.5	10.7	.6	.8	-.5		1	0
4258.0	4266.0	C	6.8	160	1.8	346	18	12.0	10.6	1.0	.8	-.6		1	0
4260.0	4268.0	C	13.0	269	1.8	346	9	12.6	10.5		.2		1.3	1	2
4262.0	4270.0	C	2.5	119	1.6	344	355	11.6	10.5		.0		-.2	1	2
4268.0	4276.0	B	2.1	88	1.3	344	326	10.5	10.3	-.4	.0	-.4		1	0
4270.0	4278.0	B	2.6	114	1.3	345	318	10.5	10.3	.0	.2	-.3		1	0
4272.0	4280.0	A	2.1	119	1.3	347	310	10.5	10.3	-.1	.2	-.2		1	0
4274.0	4282.0	A	1.3	138	1.3	348	305	10.5	10.3	.1	.1	-.1		1	0
4276.0	4284.0	B	1.5	144	1.3	348	300	10.5	10.3	.2	.1	-.1		1	0
4278.0	4286.0	B	.4	198	1.3	348	295	10.5	10.3	-.1	-.1	-.1		1	0
4280.0	4288.0	A	1.1	238	1.3	348	289	10.5	10.2	.0	-.2	.0		1	0
4282.0	4290.0	B	3.6	27	1.3	348	283	10.5	10.3		.1		-.4	1	2
4284.0	4292.0	A	6.0	1	1.3	349	279	10.6	10.5	.4	-.2	-1.3		1	0
4286.0	4294.0	A	5.5	357	1.4	350	275	10.6	10.7	.3	-.2	-1.3		1	0
4288.0	4296.0	A	2.7	356	1.4	351	272	10.7	10.9	.2	-.1	-.8		1	0
4290.0	4298.0	B	1.6	322	1.4	352	266	10.7	10.9	.1	-.2	-.5		1	0
4292.0	4300.0	A	4.2	175	1.4	352	262	10.6	10.8	-1.1	.0	.5		1	0
4294.0	4302.0	A	4.6	193	1.4	351	258	10.7	10.6	-.5	-.4	.5		1	0

Welex does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by Welex personnel or which may appear on the log or in any other form. And user of such data, interpretations, conversions, or recommendations agrees that Welex is not responsible except where due to gross negligence or wilful misconduct for any loss, damages or expenses resulting from the use thereof.

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4296.0	4304.0	A	4.4	289	1.4	352	256	10.7	10.6	-.5	-.7	-.7		1	0
4298.0	4306.0	A	6.3	306	1.4	352	254	10.7	10.6	-.5	-.7	-1.2		1	0
4300.0	4308.0	A	5.9	305	1.4	352	255	10.7	10.5	-.5	-.7	-1.1		1	0
4302.0	4310.0	B	6.1	205	1.4	351	260	10.7	10.5	-.7	-.7			1	4
4304.0	4312.0	A	4.9	359	1.4	351	262	10.7	10.7	-.1	.1	-1.2		1	0
4306.0	4314.0	A	7.1	289	1.4	350	257	10.8	10.9	-.6	-1.1	-1.0		1	0
4308.0	4316.0	A	7.5	281	1.5	350	246	10.8	10.9	-.3	-1.1	-1.1		1	0
4310.0	4318.0	B	5.9	297	1.5	351	238	10.7	10.8	-.1	-.5	-1.2		1	0
4312.0	4320.0	D	6.5	305	1.6	350	231	10.7	10.6		-.2		-.8	1	2
4314.0	4322.0	C	5.9	306	1.6	350	227	10.6	10.6		.0		-.7	1	2
4316.0	4324.0	C	4.6	283	1.6	350	223	10.6	10.6	.4			-.6	1	3
4318.0	4326.0	B	2.5	110	1.6	350	220	10.6	10.6	.0	.4	.2		1	0
4320.0	4328.0	B	5.6	80	1.7	350	216	10.6	10.6	-.1	1.0	.5		1	0
4322.0	4330.0	B	4.4	73	1.7	350	212	10.6	10.6	.1	.8	.3		1	0
4324.0	4332.0	A	1.5	26	1.7	349	206	10.6	10.6	.6	.5	-.2		1	0
4326.0	4334.0	A	4.6	45	1.8	350	201	10.7	10.6	.3	1.1	.2		1	0
4328.0	4336.0	B	5.3	286	1.8	350	196	10.7	10.6	.1	.3	-1.1		1	0
4330.0	4338.0	A	6.9	288	1.8	350	193	10.7	10.5	.1	.4	-1.4		1	0
4332.0	4340.0	A	7.7	94	1.9	350	190	10.7	10.5	-.3	.5	1.3		1	0
4334.0	4342.0	A	5.0	196	1.9	350	185	10.7	10.5	.1	-.6	-.3		1	0
4336.0	4344.0	A	3.6	193	1.9	350	182	10.7	10.5	.2	-.3	-.2		1	0
4338.0	4346.0	A	6.4	283	2.0	349	178	10.8	10.5	1.7	.7	-1.2		1	0
4340.0	4348.0	A	4.0	297	2.0	349	174	10.8	10.6	.9	.8	-.7		1	0
4342.0	4350.0	B	4.7	303	2.0	348	170	10.9	10.5	.7	1.0	-.7		1	0
4344.0	4352.0	C	6.2	21	2.1	348	167	10.9	10.5	.6	1.4	.7		1	0
4346.0	4354.0	D	10.4	32	2.1	348	164	10.9	10.6	.1	1.8			1	4
4348.0	4356.0	D	15.1	205	2.1	347	160	10.9	10.5	.1	-1.7			1	4
4350.0	4358.0	D	5.3	11	2.1	347	156	10.9	10.5	.3			.9	1	3
4352.0	4360.0	B	5.2	250	2.2	346	152	10.9	10.5		.5		-.2	1	2
4354.0	4362.0	A	9.3	239	2.2	346	149	10.9	10.4	1.0	.4	-1.6		1	0
4356.0	4364.0	A	4.7	179	2.2	345	146	10.9	10.4	.0	-.4	-.3		1	0
4358.0	4366.0	A	3.0	252	2.2	345	143	10.9	10.4	.6	.6	-.4		1	0
4360.0	4368.0	A	4.7	299	2.2	345	141	10.8	10.4	.6	1.2	-.2		1	0
4362.0	4370.0	A	4.9	292	2.2	345	139	10.8	10.4	.6	1.2	-.2		1	0
4364.0	4372.0	B	1.6	284	2.2	345	137	10.8	10.4	.2	.6	.0		1	0
4366.0	4374.0	B	.6	168	2.2	345	134	10.8	10.4	.0	.3	.1		1	0
4368.0	4376.0	A	2.2	198	2.2	345	130	10.8	10.4	.1	.2	-.1		1	0
4370.0	4378.0	A	.8	153	2.2	344	125	10.8	10.5	-.3	.2	.2		1	0
4372.0	4380.0	A	.8	303	2.2	344	121	10.9	10.6	.1	.5	.3		1	0
4374.0	4382.0	B	1.3	340	2.2	343	117	10.9	10.6	-.1	.5	.5		1	0
4376.0	4384.0	B	2.7	317	2.2	343	112	10.9	10.7	.3	.7	.5		1	0
4380.0	4388.0	C	2.9	243	2.2	342	103	11.0	10.9	.5	.6	.0		1	0
4382.0	4390.0	D	2.1	215	2.2	342	99	11.0	10.9	.6	.4	.0		1	0
4384.0	4392.0	C	4.3	247	2.2	341	97	11.0	10.9	.6	.9	.0		1	0
4386.0	4394.0	C	5.0	275	2.2	341	96	10.9	10.9	.4	1.1	.4		1	0
4388.0	4396.0	B	.1	352	2.2	341	95	10.8	10.9	.2	.2	.4		1	0
4390.0	4398.0	A	1.7	325	2.2	341	94	10.8	10.9	-.4	.4	.6		1	0
4392.0	4400.0	A	.8	333	2.2	341	92	10.7	10.8	-.2	.2	.5		1	0
4394.0	4402.0	A	2.3	169	2.2	341	92	10.7	10.8	-.1	.1	.0		1	0
4396.0	4404.0	A	2.5	198	2.2	342	93	10.7	10.7	.3	.3	-.1		1	0
4398.0	4406.0	A	2.7	186	2.2	342	95	10.7	10.6	.4	.2	-.1		1	0
4400.0	4408.0	A	2.2	199	2.2	343	98	10.8	10.7	.3	.3	.0		1	0
4402.0	4410.0	A	3.5	257	2.2	343	98	10.8	11.0	.2	.8	.1		1	0
4404.0	4412.0	A	3.5	216	2.2	341	93	10.8	11.2	.2	.5	-.2		1	0
4406.0	4414.0	A	3.0	179	2.2	340	85	10.8	11.3	-.1	.2	-.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4408.0	4416.0	B	2.7	195	2.2	338	76	10.8	11.4	.2	.3	.0		1	0
4412.0	4420.0	C	21.5	309	2.1	335	61	10.8	11.0	-1.5	1.6			1	4
4414.0	4422.0	C	12.2	26	2.1	335	59	10.8	11.0	-1.6	-2.0	1.7		1	0
4416.0	4424.0	C	9.8	29	2.1	335	59	10.8	11.0	-1.6	-1.7	1.4		1	0
4420.0	4428.0	B	6.9	90	2.1	335	60	10.8	11.0	-1.0	-1.2	-.3		1	0
4422.0	4430.0	C	7.5	124	2.1	335	59	10.8	10.9	-.3	-.6	-.9		1	0
4424.0	4432.0	D	4.3	148	2.0	335	58	10.7	10.8	.4	.0	-.4		1	0
4426.0	4434.0	A	10.4	190	2.0	334	55	10.7	10.8	.2	1.3	-1.0		1	0
4428.0	4436.0	A	10.4	186	1.9	333	52	10.7	10.7	.3	1.3	-1.0		1	0
4430.0	4438.0	A	8.0	190	1.9	333	48	10.7	10.6	.2	1.1	-.6		1	0
4432.0	4440.0	A	8.9	177	1.8	332	44	10.7	10.5	.1	1.1	-.9		1	0
4434.0	4442.0	A	2.8	161	1.8	331	39	10.7	10.4	.1	.2	-.1		1	0
4436.0	4444.0	A	3.4	165	1.7	330	34	10.7	10.4	.2	.3	-.2		1	0
4438.0	4446.0	A	4.4	169	1.7	330	30	10.7	10.3	.4	.5	-.3		1	0
4440.0	4448.0	A	4.1	172	1.7	330	25	10.7	10.3	.3	.5	-.2		1	0
4442.0	4450.0	B	7.6	184	1.6	331	20	10.8	10.2	.6	1.2	-.1		1	0
4444.0	4452.0	B	7.1	187	1.6	332	17	10.9	10.2	-.1	1.1	.0		1	0
4446.0	4454.0	B	1.8	222	1.6	332	15	10.9	10.2	-.4	.1	.3		1	0
4448.0	4456.0	C	2.0	176	1.6	333	16	11.0	10.1	-.6	.1	.1		1	0
4450.0	4458.0	B	1.3	195	1.7	334	17	11.3	10.1	-.6	.0	.2		1	0
4452.0	4460.0	B	3.1	183	1.7	334	18	11.5	10.1	.0	.4	.1		1	0
4454.0	4462.0	B	5.4	133	1.6	333	13	11.7	10.2	.5	.3	-.6		1	0
4456.0	4464.0	A	8.7	113	1.5	332	1	11.3	10.1	1.4	.4	-1.3		1	0
4458.0	4466.0	B	5.8	117	1.4	331	349	10.8	10.0		.4		-.1	1	2
4460.0	4468.0	A	10.9	72	1.3	331	341	10.6	9.9	1.3	-.2	-1.9		1	0
4462.0	4470.0	C	1.1	275	1.3	332	336	10.6	9.9	-.4	-.3	.2		1	0
4464.0	4472.0	A	5.2	104	1.2	332	331	10.6	9.9	1.3	.4	-.7		1	0
4466.0	4474.0	A	4.4	93	1.2	332	325	10.6	9.9	1.2	.3	-.8		1	0
4468.0	4476.0	A	4.2	76	1.2	332	317	10.6	10.0	1.1	.2	-.7		1	0
4470.0	4478.0	A	1.8	137	1.2	334	308	10.6	10.0	.6	.1	.0		1	0
4472.0	4480.0	A	2.9	197	1.2	336	296	10.6	10.0	.1	-.1	.4		1	0
4474.0	4482.0	A	4.6	188	1.2	339	283	10.6	10.2	.2	-.1	.6		1	0
4476.0	4484.0	B	2.0	211	1.2	341	271	10.6	10.3	.2	-.3	.1		1	0
4478.0	4486.0	C	4.3	264	1.2	343	260	10.6	10.4	.6	-.8	-.3		1	0
4480.0	4488.0	D	8.8	82	1.3	346	248	10.5	10.3	.7			.9	1	3
4484.0	4492.0	D	6.4	53	1.4	349	229	10.4	10.3	.6	1.3	-.1		1	0
4486.0	4494.0	D	8.9	42	1.5	349	220	10.5	10.4	.6	1.8	-.2		1	0
4488.0	4496.0	B	1.7	191	1.6	349	213	10.5	10.4	.2	-.1	-.1		1	0
4490.0	4498.0	B	6.5	185	1.7	349	207	10.6	10.4	-.8	-.9	.3		1	0
4492.0	4500.0	A	3.7	152	1.7	349	201	10.6	10.4	-1.2	-.2	.3		1	0
4494.0	4502.0	C	3.9	230	1.7	349	196	10.6	10.4		-.3		-.4	1	2
4496.0	4504.0	C	5.2	109	1.8	350	190	10.6	10.4	-.3	.2	.8		1	0
4498.0	4506.0	C	7.9	161	1.8	350	185	10.6	10.3	-1.1	-1.0	.5		1	0
4500.0	4508.0	B	6.8	3	1.9	350	181	10.7	10.4	.1	1.6	.0		1	0
4502.0	4510.0	B	3.4	312	1.9	350	177	10.8	10.4	.2	.8	-.5		1	0
4504.0	4512.0	C	8.7	286	1.9	350	175	10.8	10.5	.9	1.0	-1.5		1	0
4506.0	4514.0	C	11.8	298	1.9	350	173	10.9	10.5	1.6	1.7	-1.8		1	0
4508.0	4516.0	C	9.4	306	1.9	349	172	10.9	10.5	1.4			.2	1	3
4512.0	4520.0	B	9.6	342	1.9	350	171	10.7	10.3	1.2			1.0	1	3
4514.0	4522.0	B	8.1	337	1.9	350	170	10.6	10.2	1.1			.8	1	3
4516.0	4524.0	A	6.0	346	1.9	350	170	10.6	10.1	.9	1.5	-.1		1	0
4518.0	4526.0	A	3.1	152	1.9	350	169	10.7	10.1	.2	-.2	.2		1	0
4520.0	4528.0	A	4.2	155	1.9	350	169	10.7	10.1	.3	-.4	.2		1	0
4522.0	4530.0	A	4.5	158	2.0	350	168	10.9	10.1	.2	-.5	.2		1	0
4524.0	4532.0	A	4.0	165	2.0	350	168	10.9	10.1	.1	-.4	.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4526.0	4534.0	B	10.1	166	2.0	350	167	11.0	10.1	-.3	-1.5	.0		1	0
4528.0	4536.0	B	11.4	168	2.0	350	166	10.9	10.1	-.5	-1.8	.0		1	0
4530.0	4538.0	C	8.1	162	2.0	349	164	10.8	10.1	-.3	-1.1	.1		1	0
4532.0	4540.0	C	11.0	159	2.0	349	163	10.8	10.1	-.5	-1.7	.1		1	0
4534.0	4542.0	A	4.0	151	2.0	348	160	10.8	10.1	.0	-.4	.2		1	0
4536.0	4544.0	A	4.0	150	2.0	348	157	10.8	10.1	.0	-.4	.2		1	0
4538.0	4546.0	A	5.0	109	2.1	348	155	10.8	10.2	-.5	-.3	.7		1	0
4540.0	4548.0	A	6.3	103	2.1	348	153	10.9	10.2	-1.6	-.4	1.0		1	0
4542.0	4550.0	C	10.1	125	2.1	348	151	10.9	10.3		-1.3		-.2	1	2
4544.0	4552.0	C	7.7	119	2.1	348	149	11.0	10.4		-.9		.0	1	2
4546.0	4554.0	C	15.2	84	2.2	348	145	11.0	10.4	-1.8			.8	1	3
4548.0	4556.0	C	10.3	11	2.2	347	142	11.0	10.4	.1			1.7	1	3
4550.0	4558.0	C	11.2	38	2.2	347	138	11.0	10.4		.7		1.5	1	2
4552.0	4560.0	C	10.3	32	2.2	346	135	11.0	10.4		.8		1.4	1	2
4554.0	4562.0	C	6.8	360	2.3	346	132	10.9	10.4	.5	1.2	1.1		1	0
4556.0	4564.0	D	5.8	356	2.3	346	130	10.9	10.4	-.1	1.1	1.0		1	0
4558.0	4566.0	C	8.9	16	2.3	346	129	10.8	10.3	-.4	1.0			1	4
4560.0	4568.0	B	6.3	359	2.3	346	127	10.7	10.3	.4	1.1	1.2		1	0
4562.0	4570.0	B	9.8	9	2.3	346	125	10.7	10.3	-.1	1.1	1.9		1	0
4564.0	4572.0	B	10.0	5	2.2	346	123	10.6	10.2	-.1	1.2	1.9		1	0
4566.0	4574.0	B	9.4	360	2.2	346	120	10.6	10.2	.2	1.2	1.8		1	0
4568.0	4576.0	B	19.5	220	2.2	346	117	10.6	10.2		1.1		-1.0	1	2
4570.0	4578.0	A	3.0	244	2.2	346	113	10.5	10.2	.2	.6	-.1		1	0
4572.0	4580.0	A	1.0	307	2.2	346	110	10.5	10.2	.1	.4	.4		1	0
4574.0	4582.0	B	2.4	323	2.2	345	108	10.5	10.3	-.1	.6	.6		1	0
4576.0	4584.0	A	4.6	301	2.2	345	105	10.5	10.3	.0	1.0	.6		1	0
4578.0	4586.0	A	3.0	321	2.2	345	101	10.5	10.4	-.2	.6	.7		1	0
4580.0	4588.0	A	3.5	311	2.2	344	97	10.5	10.4	-.3	.7	.7		1	0
4582.0	4590.0	A	4.8	308	2.2	345	92	10.6	10.5	-.4	.8	.9		1	0
4584.0	4592.0	B	9.1	328	2.2	345	88	10.6	10.6	-.4	1.0			1	4
4586.0	4594.0	B	12.2	327	2.2	343	87	10.6	10.6	-.6	1.2			1	4
4588.0	4596.0	A	6.0	286	2.2	343	88	10.6	10.6	-.3	1.2	.7		1	0
4590.0	4598.0	A	3.5	262	2.2	344	90	10.5	10.6	-.1	.8	.3		1	0
4592.0	4600.0	B	3.7	175	2.2	344	90	10.5	10.6	.0	.1	-.3		1	0
4594.0	4602.0	B	3.9	192	2.2	343	88	10.5	10.6	1.0	.3	-.3		1	0
4598.0	4606.0	B	.9	266	2.2	342	80	10.5	10.6		.2		.3	1	2
4600.0	4608.0	B	3.5	319	2.1	341	74	10.5	10.5		.3		.6	1	2
4602.0	4610.0	A	3.8	303	2.1	339	65	10.5	10.4	-.9	.4	1.0		1	0
4604.0	4612.0	A	4.4	269	2.0	338	55	10.5	10.3	-.6	.6	.8		1	0
4606.0	4614.0	A	3.4	247	1.9	337	44	10.5	10.2	-.5	.4	.6		1	0
4608.0	4616.0	A	2.0	353	1.8	336	34	10.5	10.1	-.2	-.4	.5		1	0
4610.0	4618.0	A	2.8	346	1.7	336	26	10.5	10.1	-.5	-.6	.5		1	0
4612.0	4620.0	A	1.6	354	1.6	335	15	10.5	10.2	-.2	-.5	.3		1	0
4614.0	4622.0	A	1.7	346	1.6	335	11	10.5	10.2	-.2	-.5	.3		1	0
4616.0	4624.0	A	1.1	22	1.5	335	9	10.6	10.2	-.1	-.4	.1		1	0
4618.0	4626.0	A	1.6	98	1.6	336	8	10.6	10.2	.0	-.2	-.1		1	0
4620.0	4628.0	A	1.0	101	1.6	336	5	10.7	10.2	-.1	-.2	-.1		1	0
4622.0	4630.0	A	.7	92	1.5	334	358	10.7	10.2	-.1	-.3	.0		1	0
4624.0	4632.0	A	.6	313	1.4	333	351	10.7	10.2	-.2	-.3	.1		1	0
4626.0	4634.0	A	.8	276	1.4	332	347	10.7	10.2	-.3	-.3	.2		1	0
4628.0	4636.0	A	.5	299	1.3	331	343	10.7	10.3	-.2	-.3	.1		1	0
4630.0	4638.0	A	.5	208	1.3	331	338	10.7	10.3	-.2	-.2	.1		1	0
4632.0	4640.0	A	1.6	157	1.2	331	335	10.6	10.2	-.2	.1	.0		1	0
4634.0	4642.0	A	2.9	132	1.2	331	331	10.6	10.2	.1	.3	-.2		1	0
4636.0	4644.0	A	3.2	118	1.1	332	326	10.5	10.3	.2	.3	-.3		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4638.0	4646.0	A	1.6	113	1.1	332	320	10.5	10.3	.1	.1	-.2		1	0
4640.0	4648.0	A	1.8	133	1.0	333	312	10.5	10.4	.1	.2	-.1		1	0
4642.0	4650.0	A	2.2	158	1.0	335	301	10.5	10.4	-.1	.2	.1		1	0
4644.0	4652.0	A	1.9	167	1.0	338	291	10.5	10.5	-.1	.1	.2		1	0
4646.0	4654.0	A	1.2	205	1.0	341	283	10.5	10.6	.0	-.1	.1		1	0
4648.0	4656.0	A	1.3	210	1.0	343	278	10.5	10.7	.0	-.2	.1		1	0
4650.0	4658.0	C	.1	0	1.0	346	275	10.5	10.8	.1	-.1	-.2		1	0
4652.0	4660.0	C	.2	106	1.0	349	271	10.6	11.0	.0	.0	-.2		1	0
4654.0	4662.0	D	1.0	142	1.1	350	268	10.6	11.2	.3	.1	-.1		1	0
4656.0	4664.0	C	1.6	106	1.1	350	264	10.6	11.3		.3		.1	1	2
4658.0	4666.0	D	6.0	146	1.1	350	259	10.6	11.4	.5	.4	.9		1	0
4660.0	4668.0	D	4.4	136	1.2	350	252	10.7	11.4	.8	.4	.6		1	0
4662.0	4670.0	D	7.8	163	1.2	351	245	10.7	11.2	-.9	-.1	1.3		1	0
4664.0	4672.0	B	3.7	161	1.3	350	239	10.7	11.1		-.1		.2	1	2
4666.0	4674.0	A	.3	187	1.3	350	236	10.6	11.0	-.1	.1	-.2		1	0
4668.0	4676.0	A	.3	211	1.3	350	231	10.6	10.9	-.1	.1	-.2		1	0
4670.0	4678.0	A	.5	308	1.3	351	226	10.6	10.8	-.1	.1	-.3		1	0
4672.0	4680.0	A	7.5	245	1.3	351	222	10.6	10.7	.3	-1.1	-.7		1	0
4674.0	4682.0	A	9.9	249	1.4	351	219	10.5	10.7	.5	-1.4	-1.1		1	0
4676.0	4684.0	A	10.0	247	1.4	350	217	10.5	10.6	.5	-1.4	-1.1		1	0
4678.0	4686.0	A	9.9	246	1.4	351	216	10.4	10.6	.5	-1.4	-1.1		1	0
4680.0	4688.0	A	3.4	275	1.4	351	216	10.4	10.5	.6	-.1	-.7		1	0
4682.0	4690.0	A	3.3	346	1.4	352	215	10.4	10.5	.8	.6	-.6		1	0
4684.0	4692.0	A	3.5	342	1.4	352	214	10.4	10.4	.8	.6	-.7		1	0
4686.0	4694.0	A	6.3	42	1.4	352	212	10.4	10.4	1.0	1.3	.0		1	0
4688.0	4696.0	A	6.1	48	1.4	352	210	10.5	10.4	.9	1.3	.2		1	0
4690.0	4698.0	A	7.0	55	1.4	352	208	10.5	10.4	1.0	1.4	.4		1	0
4692.0	4700.0	A	6.9	50	1.4	352	204	10.6	10.4	.9	1.4	.4		1	0
4694.0	4702.0	A	4.0	222	1.4	352	200	10.6	10.5	.1	-.4	-.4		1	0
4696.0	4704.0	A	5.5	196	1.5	353	195	10.8	10.5	.0	-.7	-.1		1	0
4698.0	4706.0	B	14.3	264	1.5	353	190	10.9	10.3		-.5		-1.5	1	2
4700.0	4708.0	B	6.4	195	1.6	353	186	11.0	10.4	-.4	-.9	-.2		1	0
4702.0	4710.0	B	5.9	198	1.6	353	183	11.2	10.4	-.5	-.8	-.3		1	0
4704.0	4712.0	B	4.4	198	1.7	353	181	11.3	10.5	-.3	-.5	-.3		1	0
4706.0	4714.0	B	3.7	214	1.7	353	179	11.5	10.5	.0	-.3	-.4		1	0
4708.0	4716.0	B	3.0	252	1.8	353	178	11.6	10.6	-.1	.2	-.6		1	0
4710.0	4718.0	C	2.9	314	1.8	353	177	11.6	10.6	.4	.8	-.4		1	0
4712.0	4720.0	B	7.4	298	1.8	352	175	11.6	10.7	.7	1.2	-1.2		1	0
4714.0	4722.0	B	12.9	252	1.8	351	172	11.7	10.7	1.3	-.1	-2.4		1	0
4716.0	4724.0	D	9.5	250	1.8	351	169	11.7	10.8	.9	.0	-1.8		1	0
4718.0	4726.0	C	10.5	225	1.8	350	167	11.8	10.8	.8	-.8	-1.7		1	0
4720.0	4728.0	C	10.2	220	1.9	350	166	11.8	10.8	.8	-.9	-1.5		1	0
4722.0	4730.0	B	4.5	306	1.9	350	165	11.6	10.7	.2	1.1	-.5		1	0
4724.0	4732.0	A	2.2	180	1.8	350	165	11.5	10.5	-.1	-.1	-.1		1	0
4726.0	4734.0	A	4.0	192	1.8	350	164	11.4	10.3	-.1	-.3	-.3		1	0
4728.0	4736.0	A	3.1	197	1.8	350	164	11.3	10.2	.0	-.2	-.3		1	0
4730.0	4738.0	A	2.9	194	1.8	351	165	11.3	10.1	.0	-.1	-.2		1	0
4732.0	4740.0	A	2.5	181	1.8	351	165	11.3	10.0	-.1	-.1	-.1		1	0
4734.0	4742.0	A	2.1	136	1.8	351	166	11.2	10.0	.0	.0	.2		1	0
4736.0	4744.0	A	2.6	125	1.7	352	166	11.0	9.9	-.2	.0	.3		1	0
4738.0	4746.0	A	3.5	118	1.7	352	167	11.0	9.9	-.3	-.1	.5		1	0
4740.0	4748.0	A	1.4	109	1.7	352	168	11.0	9.9	.2	.2	.2		1	0
4742.0	4750.0	A	2.1	151	1.7	352	169	11.2	10.0	-.1	-.1	.1		1	0
4744.0	4752.0	B	7.4	271	1.7	351	168	11.3	9.9		.7		-.3	1	2
4746.0	4754.0	B	7.3	265	1.7	350	165	11.2	9.9		.6		-.3	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4748.0	4756.0	B	7.3	261	1.8	349	162	11.1	9.9		.6		-.3	1	2
4750.0	4758.0	B	7.4	259	1.8	350	160	11.1	9.8		.6		-.3	1	2
4752.0	4760.0	A	5.3	204	1.8	350	162	11.6	9.8	.0	-.4	-.6		1	0
4754.0	4762.0	A	2.0	200	1.8	351	164	12.3	9.8	.1	.0	-.2		1	0
4756.0	4764.0	A	2.9	187	1.8	350	162	12.5	9.7	.1	-.2	-.2		1	0
4758.0	4766.0	A	3.2	193	1.8	349	160	12.3	9.7	.3	-.2	-.2		1	0
4760.0	4768.0	A	1.9	178	1.8	349	159	11.6	9.7	.0	.0	-.1		1	0
4762.0	4770.0	A	1.9	176	1.8	349	159	11.0	9.7	-.1	.0	.0		1	0
4764.0	4772.0	A	2.9	141	1.7	350	160	10.8	9.7	-.3	-.2	.2		1	0
4766.0	4774.0	A	2.8	142	1.7	350	161	10.8	9.6	-.3	-.2	.2		1	0
4768.0	4776.0	A	4.3	129	1.8	351	162	11.1	9.6	-.5	-.4	.4		1	0
4770.0	4778.0	A	5.3	124	1.8	351	165	11.5	9.6	-.6	-.4	.6		1	0
4772.0	4780.0	A	2.5	171	1.8	351	167	11.8	9.6	.2	-.1	.0		1	0
4774.0	4782.0	C	7.2	299	1.7	350	166	11.7	9.6	.6	1.4	-.9		1	0
4776.0	4784.0	B	4.8	254	1.7	349	163	11.3	9.6	1.0	.4	-.8		1	0
4778.0	4786.0	A	4.1	239	1.7	348	159	11.0	9.6	.4	.2	-.6		1	0
4780.0	4788.0	B	3.8	235	1.8	348	157	10.8	9.7	.4	.2	-.6		1	0
4782.0	4790.0	B	3.3	231	1.8	348	159	10.8	9.7	.2	.1	-.5		1	0
4784.0	4792.0	B	2.9	221	1.8	348	161	10.8	9.8	.1	.1	-.4		1	0
4786.0	4794.0	A	3.3	278	1.8	348	163	10.8	9.9	.3	.6	-.5		1	0
4788.0	4796.0	A	3.8	289	1.8	348	164	10.6	9.8	.4	.7	-.5		1	0
4790.0	4798.0	A	5.1	294	1.8	348	163	10.4	9.7	.6	.9	-.6		1	0
4792.0	4800.0	A	4.8	300	1.8	348	163	10.3	9.6	.6	1.0	-.5		1	0
4794.0	4802.0	A	7.1	313	1.8	348	163	10.2	9.4	1.3	1.4	-.6		1	0
4796.0	4804.0	C	13.5	263	1.8	349	165	10.1	9.4	1.4			-.8	1	3
4800.0	4808.0	C	16.3	94	1.7	350	177	10.1	9.4		.0		1.3	1	2
4802.0	4810.0	C	7.4	99	1.6	349	184	10.0	9.5		.2		.7	1	2
4804.0	4812.0	A	5.6	263	1.5	349	187	10.1	9.6	.7	.0	-1.0		1	0
4806.0	4814.0	A	5.1	264	1.5	349	186	10.2	9.8	.4	.1	-.9		1	0
4808.0	4816.0	A	5.2	260	1.5	348	182	10.3	9.9	.5	.1	-.9		1	0
4810.0	4818.0	A	3.6	250	1.6	348	178	10.4	9.9	.4	.1	-.6		1	0
4812.0	4820.0	A	6.4	19	1.6	348	174	10.4	9.9	.7	1.4	.4		1	0
4814.0	4822.0	A	5.7	6	1.7	348	169	10.4	9.9	.7	1.3	.3		1	0
4816.0	4824.0	A	4.8	354	1.7	348	164	10.3	9.9	.7	1.2	.2		1	0
4818.0	4826.0	A	3.5	337	1.8	348	159	10.3	9.8	.6	.9	.0		1	0
4820.0	4828.0	A	2.1	228	1.8	348	155	10.3	9.8	.3	.2	-.3		1	0
4822.0	4830.0	A	2.2	228	1.9	348	152	10.3	9.8	.3	.2	-.3		1	0
4824.0	4832.0	A	2.0	223	1.9	348	150	10.2	9.8	.3	.2	-.2		1	0
4826.0	4834.0	A	1.1	200	1.9	347	149	10.2	9.8	.2	.2	.0		1	0
4828.0	4836.0	A	1.2	196	1.9	347	148	10.2	9.8	.2	.2	.0		1	0
4830.0	4838.0	A	2.5	146	1.9	346	146	10.2	9.8	-.2	-.1	.1		1	0
4832.0	4840.0	A	4.0	142	1.9	345	143	10.2	9.8	-.4	-.4	.1		1	0
4834.0	4842.0	A	6.1	133	1.9	344	141	10.2	9.8	-.9	-.8	.3		1	0
4836.0	4844.0	A	2.7	161	1.9	343	137	10.2	9.8	-.4	-.1	.0		1	0
4838.0	4846.0	A	2.0	177	1.9	342	133	10.1	9.8	-.3	.0	-.1		1	0
4840.0	4848.0	A	2.2	180	1.9	341	128	10.0	9.8	-.3	.0	-.1		1	0
4842.0	4850.0	A	2.4	179	1.9	340	122	9.9	9.8	-.3	.0	-.1		1	0
4844.0	4852.0	A	1.5	14	1.9	339	116	9.9	9.8	.2	.3	.5		1	0
4846.0	4854.0	A	1.1	124	1.9	338	111	9.9	9.9	.1	.0	.2		1	0
4848.0	4856.0	A	1.4	132	1.9	338	108	9.9	10.0	.1	.0	.2		1	0
4850.0	4858.0	D	3.1	256	1.9	338	104	10.0	10.3	.0	.7	.0		1	0
4852.0	4860.0	D	1.3	66	1.9	338	98	10.0	10.5		.0		.2	1	2
4856.0	4864.0	B	2.6	359	1.9	337	82	10.2	10.6	-.2	.0	.8		1	0
4858.0	4866.0	B	2.4	339	1.8	336	73	10.2	10.5	-.2	.1	.8		1	0
4860.0	4868.0	A	1.2	258	1.8	335	65	10.3	10.4	-.2	.2	.4		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4862.0	4870.0	A	2.7	238	1.7	334	58	10.5	10.5	.0	.5	.3		1	0
4864.0	4872.0	A	2.6	353	1.7	333	51	10.6	10.5	-.1	-.3	.7		1	0
4866.0	4874.0	A	4.6	253	1.6	332	44	10.8	10.6	.0	.7	.7		1	0
4870.0	4878.0	D	16.4	122	1.6	332	37	11.0	10.8	1.2	-.5			1	4
4872.0	4880.0	B	2.0	152	1.6	333	36	11.0	10.8	.1	.0	-.1		1	0
4874.0	4882.0	A	2.3	146	1.5	332	35	10.9	10.7	.1	.0	-.1		1	0
4876.0	4884.0	A	2.3	153	1.5	331	32	10.8	10.6	-.1	.1	-.1		1	0
4878.0	4886.0	A	1.5	169	1.5	329	29	10.7	10.5	-.2	.1	.1		1	0
4880.0	4888.0	A	1.0	302	1.4	328	24	10.7	10.4	-.5	-.2	.4		1	0
4882.0	4890.0	A	1.9	259	1.3	326	16	10.6	10.3	-.5	.0	.5		1	0
4884.0	4892.0	A	2.4	245	1.3	327	10	10.7	10.2	-.4	.1	.5		1	0
4886.0	4894.0	A	2.0	252	1.2	327	6	10.7	10.2	-.2	.0	.5		1	0
4888.0	4896.0	A	2.3	251	1.2	328	2	10.6	10.2	-.2	.0	.5		1	0
4890.0	4898.0	A	2.4	247	1.1	328	355	10.6	10.2	-.2	.0	.5		1	0
4892.0	4900.0	A	2.5	251	1.1	329	348	10.5	10.1	-.2	-.1	.5		1	0
4894.0	4902.0	A	5.2	252	1.0	330	338	10.4	10.1	-.5	-.2	.9		1	0
4896.0	4904.0	B	13.2	329	.9	332	329	10.3	10.0	-1.3			-1.3	1	3
4898.0	4906.0	B	10.6	340	.8	336	317	10.3	10.0	-.8	-1.9	-.8		1	0
4900.0	4908.0	C	3.9	351	.8	341	304	10.2	10.0	-.7	-.6	-.6		1	0
4902.0	4910.0	B	1.9	178	.8	347	291	10.2	10.0	-.3	.1	.2		1	0
4904.0	4912.0	B	2.8	164	.8	353	278	10.2	10.0	-.1	.2	.3		1	0
4906.0	4914.0	A	4.6	149	.8	359	267	10.1	9.9	.0	.4	.6		1	0
4908.0	4916.0	A	2.9	117	.9	3	259	10.1	9.9	.2	.4	.2		1	0
4910.0	4918.0	A	2.2	56	.9	5	253	10.1	9.9	.3	.4	-.3		1	0
4912.0	4920.0	A	2.6	20	1.0	7	247	10.1	9.9	.5	.4	-.5		1	0
4914.0	4922.0	A	3.0	5	1.0	8	241	10.1	9.8	.5	.4	-.6		1	0
4916.0	4924.0	A	5.3	259	1.0	9	236	10.1	9.8	.0	-.8	-.2		1	0
4918.0	4926.0	A	5.5	234	1.1	9	230	10.1	9.8	.1	-.8	-.2		1	0
4920.0	4928.0	A	3.9	199	1.1	9	225	10.2	9.8	-.3	-.5	.2		1	0
4922.0	4930.0	A	4.0	191	1.2	9	221	10.2	9.8	-.2	-.4	.2		1	0
4924.0	4932.0	A	3.7	175	1.2	8	216	10.2	9.9	.0	-.3	.3		1	0
4926.0	4934.0	A	3.3	172	1.2	8	212	10.2	9.9	-.1	-.3	.3		1	0
4928.0	4936.0	A	.7	155	1.3	7	208	10.2	9.9	.0	.1	.0		1	0
4930.0	4938.0	A	.6	74	1.3	7	205	10.3	9.9	.0	.3	.0		1	0
4932.0	4940.0	A	1.0	298	1.3	6	203	10.3	9.9	.3	.2	-.2		1	0
4934.0	4942.0	A	1.2	292	1.3	5	201	10.3	10.0	.3	.2	-.3		1	0
4936.0	4944.0	A	1.0	287	1.3	5	199	10.4	10.0	.3	.2	-.2		1	0
4938.0	4946.0	A	1.1	289	1.4	4	198	10.4	10.0	.3	.2	-.3		1	0
4940.0	4948.0	A	.9	260	1.4	4	196	10.4	10.0	.2	.2	-.2		1	0
4942.0	4950.0	A	2.6	165	1.4	4	195	10.4	10.0	.0	-.2	.2		1	0
4944.0	4952.0	C	2.0	156	1.4	4	193	10.4	10.0	.2	.0	.2		1	0
4946.0	4954.0	A	2.0	242	1.4	4	191	10.3	10.0	.2	.0	-.3		1	0
4948.0	4956.0	A	4.8	264	1.5	4	190	10.3	9.9	.5	.0	-.8		1	0
4950.0	4958.0	A	5.1	259	1.5	4	188	10.3	9.9	.4	.0	-.8		1	0
4952.0	4960.0	A	4.3	253	1.5	4	186	10.4	10.0	.3	.0	-.7		1	0
4954.0	4962.0	A	3.5	252	1.5	3	185	10.4	10.0	.1	.0	-.6		1	0
4956.0	4964.0	A	2.8	245	1.5	3	183	10.4	10.0	.0	.0	-.4		1	0
4958.0	4966.0	A	2.6	282	1.6	3	181	10.4	10.0	.5	.4	-.4		1	0
4960.0	4968.0	A	3.0	279	1.6	4	179	10.3	9.9	.5	.4	-.5		1	0
4962.0	4970.0	A	3.3	281	1.6	3	177	10.3	9.9	.7	.4	-.5		1	0
4964.0	4972.0	A	3.6	281	1.6	2	174	10.3	9.9	.7	.5	-.5		1	0
4966.0	4974.0	A	4.2	253	1.6	1	171	10.3	9.9	.5	.2	-.7		1	0
4978.0	4986.0	A	7.4	165	1.6	359	160	10.5	10.1	.0	-1.1	.0		1	0
4980.0	4988.0	A	5.2	166	1.6	358	158	10.5	10.1	.1	-.7	.0		1	0
4982.0	4990.0	A	1.0	237	1.7	358	156	10.5	10.1	.3	.3	-.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4984.0	4992.0	A	1.9	305	1.7	357	154	10.5	10.0	.4	.6	.0		1	0
4986.0	4994.0	A	2.1	291	1.7	357	153	10.5	10.0	.4	.6	-.1		1	0
4988.0	4996.0	A	2.4	292	1.7	357	153	10.5	10.0	.4	.6	-.2		1	0
4990.0	4998.0	A	1.9	225	1.6	358	154	10.4	9.9	.0	.2	-.2		1	0
4992.0	5000.0	A	2.1	228	1.6	358	154	10.4	9.9	.0	.2	-.2		1	0
4994.0	5002.0	C	9.4	73	1.6	359	155	10.4	9.8		.0		.9	1	2
4996.0	5004.0	B	3.6	164	1.6	358	154	10.4	9.8	.2	-.4	.0		1	0
4998.0	5006.0	A	11.2	120	1.6	358	153	10.4	9.8	-1.6	-1.4	1.2		1	0
5000.0	5008.0	A	7.0	155	1.6	357	151	10.4	9.8	-.3	-1.0	.0		1	0
5002.0	5010.0	A	.8	165	1.6	356	149	10.4	9.8	.0	.1	.1		1	0
5004.0	5012.0	A	.9	165	1.6	355	147	10.4	9.8	.0	.1	.1		1	0
5006.0	5014.0	A	1.0	215	1.6	355	144	10.3	9.9	.1	.2	.0		1	0
5008.0	5016.0	A	1.6	180	1.6	354	141	10.3	9.9	.1	.0	.0		1	0
5010.0	5018.0	C	1.5	252	1.7	354	136	10.3	10.0	.4	.4	-.1		1	0
5012.0	5020.0	A	2.4	158	1.7	353	131	10.3	10.1	.2	-.2	.0		1	0
5014.0	5022.0	B	3.7	269	1.7	352	125	10.3	10.2		.8		.3	1	2
5016.0	5024.0	B	13.7	241	1.7	351	119	10.3	10.4		1.5		-.2	1	2
5018.0	5026.0	B	11.1	239	1.7	351	115	10.4	10.5		1.3		-.1	1	2
5020.0	5028.0	A	1.5	192	1.7	348	112	10.4	10.9	.0	.1	.0		1	0
5026.0	5034.0	B	7.3	105	1.6	347	112	11.0	15.0	-1.8	-1.2	.6		1	0
5028.0	5036.0	C	19.8	46	1.7	350	114	10.9	14.4		-1.3		1.9	1	2
5034.0	5042.0	B	2.3	218	1.7	350	113	10.5	10.8	-.3	.3	-.2		1	0
5036.0	5044.0	B	.6	210	1.7	350	110	10.5	10.8	-.4	.2	.2		1	0
5038.0	5046.0	A	1.5	168	1.7	350	108	10.5	10.9	-.7	.0	.0		1	0
5040.0	5048.0	B	9.8	30	1.7	350	103	10.6	11.2	-1.3	-.4			1	4
5042.0	5050.0	C	17.1	187	1.7	349	97	10.7	11.4	1.6	.1			1	4
5044.0	5052.0	C	22.2	154	1.7	347	90	10.8	11.5	1.0	-1.8			1	4
5046.0	5054.0	C	20.0	173	1.6	345	83	10.9	11.5	1.9	.0			1	4
5048.0	5056.0	B	21.4	143	1.6	344	78	10.9	11.4	.9	-1.8			1	4
5050.0	5058.0	A	9.8	72	1.8	343	75	10.9	11.2	-.9	-1.8	.4		1	0
5052.0	5060.0	C	15.0	30	1.6	342	72	10.9	11.1	-2.2			.1	1	3
5058.0	5066.0	D	12.4	25	1.4	341	57	11.0	10.7	-1.8			-.3	1	3
5060.0	5068.0	D	11.3	28	1.3	341	51	11.0	10.6	-1.6			-.5	1	3
5062.0	5070.0	D	12.4	33	1.3	341	45	11.0	10.5	-1.6			-.9	1	3
5064.0	5072.0	C	11.3	43	1.2	341	41	11.0	10.4	-1.2			-1.1	1	3
5066.0	5074.0	C	11.8	46	1.2	340	37	11.0	10.3	-1.1			-1.3	1	3
5068.0	5076.0	C	13.3	43	1.1	340	33	11.0	10.3	-1.2			-1.5	1	3
5070.0	5078.0	C	10.8	45	1.1	339	30	11.0	10.2	-.9			-1.3	1	3
5072.0	5080.0	B	12.9	27	1.0	338	26	11.1	10.2	-1.4			-1.3	1	3
5074.0	5082.0	B	12.9	17	1.0	337	23	11.2	10.2	-1.5			-1.2	1	3
5076.0	5084.0	A	2.4	82	.9	337	23	11.5	10.2	.0	-.4	-.3		1	0
5078.0	5086.0	A	2.5	98	.9	336	24	12.1	10.4	-.3	-.3	-.3		1	0
5080.0	5088.0	A	2.3	113	.9	335	24	12.5	10.4	-.2	-.1	-.3		1	0
5082.0	5090.0	A	2.4	114	.9	333	25	12.4	10.4	-.1	-.1	-.3		1	0
5084.0	5092.0	A	2.1	106	.9	331	22	12.0	10.3	-.3	-.2	-.2		1	0
5086.0	5094.0	A	3.1	128	.8	330	19	11.5	10.1	.7	.1	-.4		1	0
5088.0	5096.0	A	5.2	139	.7	328	14	10.9	9.9	1.1	.5	-.6		1	0
5090.0	5098.0	A	4.1	169	.7	327	10	10.8	9.9	.8	.6	-.2		1	0
5092.0	5100.0	A	10.0	186	.6	328	7	10.8	9.8	.3	1.8	.1		1	0
5094.0	5102.0	A	1.1	209	.6	330	4	10.9	9.8	.0	.1	.1		1	0
5096.0	5104.0	A	1.0	214	.6	333	1	11.2	9.9	.0	.1	.1		1	0
5098.0	5106.0	B	.9	222	.6	335	2	11.7	9.9	.0	.0	.1		1	0
5100.0	5108.0	A	2.1	305	.6	336	1	11.7	9.9	-.3	-.3	.3		1	0
5102.0	5110.0	A	1.9	292	.5	335	357	11.4	10.0	-.3	-.3	.3		1	0
5104.0	5112.0	A	.7	263	.5	334	350	11.2	10.1	-.2	-.1	.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5106.0	5114.0	B	2.6	298	.4	335	347	11.2	10.2	-.5	-.4	.4		1	0
5108.0	5116.0	A	2.2	266	.4	338	343	11.2	10.2	-.3	-.2	.4		1	0
5110.0	5118.0	A	.7	157	.3	341	340	11.1	10.3	.1	.1	.0		1	0
5112.0	5120.0	A	.8	195	.3	342	337	11.1	10.3	.1	.1	.1		1	0
5114.0	5122.0	A	2.2	117	.3	342	336	11.1	10.4	.3	.3	-.3		1	0
5116.0	5124.0	A	5.4	98	.3	340	335	11.1	10.4	.8	.5	-.8		1	0
5118.0	5126.0	A	4.0	190	.3	338	333	11.1	10.4	.2	.5	.4		1	0
5120.0	5128.0	A	3.9	194	.4	336	331	11.0	10.4	.1	.5	.5		1	0
5122.0	5130.0	A	3.3	246	.3	12	328	11.0	10.4	-.1	-.1	.5		1	0
5124.0	5132.0	A	2.4	301	.3	46	324	10.9	10.4	-.1	-.4	.1		1	0
5126.0	5134.0	A	2.2	274	.3	75	320	10.9	10.4	.0	-.3	.2		1	0
5128.0	5136.0	A	2.5	291	.3	75	316	10.9	10.4	-.2	-.4	.2		1	0
5130.0	5138.0	B	2.2	288	.2	75	313	10.8	10.4	-.1	-.4	.1		1	0
5132.0	5140.0	B	2.0	267	.2	75	308	10.8	10.4	-.1	-.3	.2		1	0
5134.0	5142.0	B	2.2	318	.2	75	304	10.8	10.4	-.4	-.4	-.1		1	0
5136.0	5144.0	B	1.1	278	.1	75	301	10.8	10.4	-.2	-.2	.1		1	0
5138.0	5146.0	B	5.5	14	.1	75	299	10.7	10.4	-.5	-.2	-1.0		1	0
5140.0	5148.0	B	6.0	22	.2	75	297	10.7	10.4	-.1	-.1	-1.1		1	0
5142.0	5150.0	B	1.5	81	.2	75	295	10.7	10.4	.1	.3	-.2		1	0
5144.0	5152.0	B	1.7	80	.1	75	295	10.7	10.4	.3	.3	-.2		1	0
5146.0	5154.0	A	2.1	93	.1	75	296	10.7	10.3	.7	.4	-.2		1	0
5148.0	5156.0	B	1.9	102	.1	75	299	10.6	10.3	.6	.4	-.1		1	0
5150.0	5158.0	B	6.9	28	.1	75	301	10.6	10.2	.9	.0	-1.2		1	0
5152.0	5160.0	B	13.3	27	.0	75	300	10.4	10.0	1.1	-.1			1	4
5154.0	5162.0	B	15.6	18	.1	75	298	10.3	9.9	1.1	-.5			1	4
5156.0	5164.0	B	14.3	16	.1	75	295	10.2	9.8	1.1	-.4			1	4
5158.0	5166.0	A	7.2	153	.1	75	290	10.1	9.8	.2	1.0	.8		1	0
5160.0	5168.0	A	3.1	159	.2	75	285	10.0	9.8	.2	.5	.3		1	0
5162.0	5170.0	A	3.8	161	.2	75	279	10.0	9.8	-.1	.4	.6		1	0
5164.0	5172.0	B	11.4	160	.2	75	274	10.0	9.8	-.5	.9			1	4
5166.0	5174.0	B	16.6	151	.3	75	269	10.0	9.9	-.6	1.4			1	4
5168.0	5176.0	B	13.2	146	.3	73	264	10.0	9.9	-.5	1.1			1	4
5170.0	5178.0	B	14.5	143	.3	70	258	10.1	10.0	-.6	1.2			1	4
5172.0	5180.0	B	6.0	146	.4	65	253	10.1	10.1	-.3	.4	1.0		1	0
5174.0	5182.0	A	2.3	133	.4	59	247	10.2	10.2	.0	.2	.4		1	0
5176.0	5184.0	A	.7	226	.5	53	241	10.3	10.3	-.1	.0	.0		1	0
5178.0	5186.0	A	.8	246	.5	48	236	10.4	10.4	-.1	.0	.0		1	0
5180.0	5188.0	A	1.1	264	.6	43	229	10.5	10.4	.0	-.1	-.1		1	0
5182.0	5190.0	A	2.1	232	.6	37	223	10.5	10.4	-.3	-.3	-.1		1	0
5184.0	5192.0	A	1.5	209	.7	33	218	10.6	10.4	-.1	-.1	.0		1	0
5186.0	5194.0	B	1.1	212	.7	30	212	10.7	10.4	.0	-.1	.0		1	0
5188.0	5196.0	A	.2	165	.7	28	208	10.7	10.4	.1	.1	.0		1	0
5190.0	5198.0	A	.3	74	.8	26	203	10.8	10.4	.1	.2	.1		1	0
5192.0	5200.0	A	1.2	266	.8	24	200	10.8	10.4	.2	.1	-.2		1	0
5194.0	5202.0	A	2.6	358	.8	23	197	10.8	10.4	.5	.6	-.1		1	0
5196.0	5204.0	A	3.0	342	.8	21	193	10.8	10.3	.5	.6	-.3		1	0
5198.0	5206.0	A	3.9	334	.8	21	190	10.8	10.3	.7	.7	-.4		1	0
5200.0	5208.0	A	4.4	339	.9	20	188	10.9	10.3	.8	.9	-.3		1	0
5202.0	5210.0	A	4.7	296	.9	19	185	10.9	10.2	1.0	.5	-.7		1	0
5204.0	5212.0	C	3.3	260	.9	19	183	10.9	10.2	.3			-.3	1	3
5206.0	5214.0	C	3.1	253	.9	18	181	10.9	10.2	.2			-.3	1	3
5208.0	5216.0	D	5.6	310	.9	18	179	10.9	10.2	.8			.1	1	3
5210.0	5218.0	D	6.1	321	.9	17	178	10.9	10.2	.8	1.1	-.6		1	0
5212.0	5220.0	C	9.1	329	.9	15	176	10.9	10.2	1.0	1.7	-.7		1	0
5224.0	5232.0	B	3.4	292	.9	7	165	11.1	10.3	.9	.5	-.4		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5226.0	5234.0	B	2.5	312	.9	5	162	11.1	10.2	.6	.6	-.2		1	0
5228.0	5236.0	A	2.6	292	.9	3	159	11.0	10.2	.5	.5	-.3		1	0
5230.0	5238.0	A	1.8	156	.9	2	154	10.9	10.2	-.2	-.2	.1		1	0
5232.0	5240.0	A	1.7	146	1.0	359	149	10.8	10.1	-.3	-.2	.1		1	0
5234.0	5242.0	A	1.8	150	1.0	356	143	10.7	10.1	-.3	-.2	.1		1	0
5236.0	5244.0	A	1.7	145	1.0	353	136	10.6	10.1	-.3	-.2	.1		1	0
5238.0	5246.0	A	2.2	214	1.0	351	130	10.4	10.1	.2	.1	-.3		1	0
5240.0	5248.0	A	5.1	144	1.0	349	125	10.4	10.1	-.2	-.7	-.2		1	0
5242.0	5250.0	A	11.6	119	1.0	347	120	10.3	10.1	-2.0	-2.0	.2		1	0
5246.0	5254.0	B	13.9	92	.9	344	112	10.1	10.0	-1.6			-.6	1	3
5248.0	5256.0	A	2.1	308	.9	342	108	10.1	10.0	.0	.4	.3		1	0
5250.0	5258.0	A	2.0	283	.9	340	104	10.1	10.0	.1	.4	.1		1	0
5252.0	5260.0	A	1.5	290	.9	338	99	10.1	10.0	-.1	.3	.2		1	0
5254.0	5262.0	A	1.1	247	.8	335	94	10.1	10.0	-.1	.2	.0		1	0
5256.0	5264.0	A	1.4	231	.8	333	89	10.1	10.0	-.4	.3	.0		1	0
5258.0	5266.0	B	2.6	255	.8	330	84	10.1	10.0	-.1	.5	.1		1	0
5260.0	5268.0	C	3.5	267	.8	328	79	10.2	10.0	.2	.7	.2		1	0
5262.0	5270.0	D	4.1	255	.8	326	75	10.2	10.0	.3	.8	.1		1	0
5264.0	5272.0	D	4.6	205	.8	324	71	10.2	10.0	.6	.6	-.5		1	0
5266.0	5274.0	B	3.2	135	.7	321	67	10.3	10.1	.7	-.2	-.4		1	0
5268.0	5276.0	A	.7	134	.7	319	63	10.3	10.1	-.1	.0	.0		1	0
5270.0	5278.0	A	.6	184	.7	316	59	10.3	10.1	.0	.1	.0		1	0
5272.0	5280.0	A	1.1	179	.7	312	55	10.4	10.1	.1	.1	.0		1	0
5274.0	5282.0	B	2.8	143	.7	309	51	10.4	10.1	.3	.0	-.4		1	0
5276.0	5284.0	B	6.1	154	.6	305	48	10.4	10.1	.7	.3	-.9		1	0
5278.0	5286.0	C	10.7	151	.6	300	45	10.4	10.1	1.1	.6			1	4
5280.0	5288.0	C	11.2	150	.6	296	41	10.5	10.1	1.2	.7			1	4
5282.0	5290.0	C	9.9	161	.6	291	38	10.5	10.1	1.4	1.0	-1.4		1	0
5284.0	5292.0	A	7.7	150	.5	285	34	10.5	10.1	1.6	.7	-1.1		1	0
5286.0	5294.0	A	6.2	144	.5	279	30	10.5	10.1	1.2	.5	-.9		1	0
5288.0	5296.0	A	6.2	143	.5	274	25	10.4	10.1	1.2	.6	-.9		1	0
5290.0	5298.0	A	4.8	144	.5	268	21	10.4	10.1	.7	.5	-.6		1	0
5292.0	5300.0	A	2.9	169	.4	263	18	10.4	10.1	.4	.5	-.2		1	0
5294.0	5302.0	A	2.7	172	.4	259	16	10.3	10.0	.4	.5	-.1		1	0
5296.0	5304.0	A	2.5	179	.4	257	14	10.3	10.0	.3	.5	-.1		1	0
5298.0	5306.0	A	2.0	219	.4	253	12	10.1	9.8	.1	.3	.2		1	0
5300.0	5308.0	A	2.0	255	.3	249	11	10.0	9.8	-.1	.2	.4		1	0
5302.0	5310.0	A	3.4	221	.3	244	9	10.0	9.7	.1	.5	.4		1	0
5304.0	5312.0	A	3.4	218	.3	239	5	9.9	9.6	.1	.5	.4		1	0
5306.0	5314.0	A	4.5	208	.3	232	0	9.8	9.5	.2	.7	.4		1	0
5308.0	5316.0	C	8.7	171	.3	221	355	9.8	9.5		1.5		.7	1	2
5310.0	5318.0	A	2.6	264	.3	207	349	9.8	9.5	-.1	.0	.5		1	0
5312.0	5320.0	B	1.7	222	.3	194	343	9.8	9.5	-.2	.2	.3		1	0
5314.0	5322.0	C	1.8	206	.4	185	336	9.8	9.5	-.2	.2	.3		1	0
5316.0	5324.0	D	1.9	202	.4	178	331	9.9	9.6	-.2	.3	.3		1	0
5318.0	5326.0	B	1.6	196	.4	169	326	9.9	9.6	-.1	.2	.2		1	0
5320.0	5328.0	A	1.0	252	.4	160	321	10.0	9.7	-.1	.0	.2		1	0
5322.0	5330.0	A	1.0	237	.4	152	316	10.0	9.7	.0	.0	.2		1	0
5324.0	5332.0	A	.9	237	.5	145	312	10.1	9.8	.0	.0	.2		1	0
5326.0	5334.0	A	.2	241	.5	139	307	10.1	9.9	.0	.1	.1		1	0
5328.0	5336.0	A	3.2	198	.5	135	302	10.2	9.9	.0	.2	.6		1	0
5330.0	5338.0	A	3.4	198	.5	132	297	10.2	10.0	.0	.2	.6		1	0
5332.0	5340.0	A	3.9	192	.6	129	291	10.3	10.0	.0	.2	.7		1	0
5334.0	5342.0	A	3.8	187	.6	125	287	10.3	10.1	.0	.2	.7		1	0
5336.0	5344.0	A	2.6	110	.6	121	284	10.4	10.2	.2	.6	.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	DIA NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5338.0	5346.0	A	3.5	119	.6	117	282	10.4	10.2	.2	.7	.2		1	0
5340.0	5348.0	A	3.5	116	.6	114	280	10.4	10.2	.2	.7	.2		1	0
5342.0	5350.0	A	3.5	115	.6	111	278	10.4	10.2	.2	.7	.2		1	0
5344.0	5352.0	A	3.3	118	.6	108	276	10.4	10.3	.1	.7	.3		1	0
5346.0	5354.0	A	.2	251	.6	106	274	10.5	10.3	.1	.1	.0		1	0
5348.0	5356.0	A	.8	208	.7	104	272	10.5	10.4	-.1	.1	.2		1	0
5350.0	5358.0	A	1.1	197	.7	101	270	10.5	10.4	-.1	.1	.2		1	0
5352.0	5360.0	A	1.4	197	.7	99	269	10.5	10.4	-.1	.0	.3		1	0
5354.0	5362.0	A	1.2	182	.7	98	268	10.5	10.5	-.1	.1	.2		1	0
5356.0	5364.0	B	1.0	205	.7	98	268	10.5	10.5	-.1	.1	.2		1	0
5358.0	5366.0	B	.6	174	.8	99	269	10.5	10.5	.0	.1	.1		1	0
5360.0	5368.0	A	.3	163	.8	100	271	10.5	10.6	.0	.2	.1		1	0
5362.0	5370.0	A	.6	209	.8	103	273	10.5	10.6	.0	.1	.1		1	0
5364.0	5372.0	A	2.2	173	.7	108	277	10.5	10.7	-.1	.2	.4		1	0
5366.0	5374.0	A	2.8	180	.7	112	281	10.6	10.7	-.2	.2	.5		1	0
5368.0	5376.0	A	4.0	180	.7	116	284	10.6	10.7	-.2	.3	.8		1	0
5370.0	5378.0	A	2.6	155	.7	118	285	10.7	10.7	-.1	.4	.4		1	0
5372.0	5380.0	A	1.3	69	.7	119	284	10.7	10.8	-.2	.3	-.1		1	0
5374.0	5382.0	A	.7	152	.7	119	283	10.8	11.0	-.3	.2	.1		1	0
5376.0	5384.0	B	1.3	174	.7	118	282	10.8	11.1	-.3	.2	.3		1	0
5378.0	5386.0	A	5.0	193	.7	117	281	10.9	11.1	-.5	.1	1.0		1	0
5380.0	5388.0	A	4.9	193	.7	115	281	10.9	11.1	-.4	.1	1.0		1	0
5382.0	5390.0	B	2.7	198	.7	112	279	10.9	11.2		.1		.3	1	2
5384.0	5392.0	B	2.6	207	.8	108	277	10.8	11.3		.0		.2	1	2
5386.0	5394.0	B	5.2	202	.8	105	274	10.8	11.2		-.2		.4	1	2
5388.0	5396.0	B	7.8	195	.8	103	273	10.7	11.2	-.7	-.1	1.5		1	0
5390.0	5398.0	A	5.8	192	.8	100	271	10.6	11.1	-.6	-.1	1.1		1	0
5392.0	5400.0	A	6.1	191	.8	96	267	10.5	11.0	-.7	-.1	1.2		1	0
5394.0	5402.0	A	9.8	185	.8	93	263	10.4	10.9	-.2	1.2	1.5		1	0
5396.0	5404.0	A	9.9	139	.8	90	260	10.3	10.8	-.2	1.1	1.7		1	0
5398.0	5406.0	B	8.6	139	.8	89	259	10.2	10.7	-.3			1.2	1	3
5400.0	5408.0	A	7.5	149	.8	89	259	10.0	10.6	.3	.6	1.3		1	0
5402.0	5410.0	A	7.0	149	.8	88	259	9.9	10.5	.3	.6	1.2		1	0
5404.0	5412.0	A	6.5	150	.8	87	260	9.8	10.4	.3	.5	1.1		1	0
5406.0	5414.0	A	7.9	359	.8	88	262	9.7	10.5	.4	.3	-1.4		1	0
5408.0	5416.0	B	9.2	298	.8	90	265	9.7	10.7		-1.2		-1.1	1	2
5410.0	5418.0	B	9.1	300	.8	92	269	9.7	10.8		-1.2		-1.0	1	2
5412.0	5420.0	B	6.6	219	.8	92	272	9.8	10.7	-1.2	-.5	1.0		1	0
5414.0	5422.0	D	7.3	224	.8	92	275	9.8	10.7	-.2	-.7	1.1		1	0
5416.0	5424.0	D	7.3	223	.8	94	277	9.7	11.0	.1	-.6	1.1		1	0
5418.0	5426.0	D	8.7	237	.8	96	281	9.7	11.3	-1.5	-.9	1.2		1	0
5422.0	5430.0	C	1.2	238	.8	96	291	9.8	10.1		.0		.1	1	2
5424.0	5432.0	B	.8	257	.8	94	293	9.8	9.8	.1	.0	.0		1	0
5426.0	5434.0	B	1.7	224	.8	93	291	9.8	9.7	.1	.0	.2		1	0
5428.0	5436.0	A	2.8	185	.8	90	289	9.8	9.7	.4	.2	.4		1	0
5430.0	5438.0	B	8.6	105	.8	87	287	9.8	9.6	.8			.8	1	3
5432.0	5440.0	A	3.7	278	.8	84	284	9.8	9.6	.7	-.5	.0		1	0
5434.0	5442.0	A	3.5	294	.8	82	280	9.8	9.6	.7	-.4	-.2		1	0
5436.0	5444.0	C	3.3	317	.8	81	275	9.8	9.6	1.0	-.3	-.4		1	0
5438.0	5446.0	C	.3	105	.8	79	270	9.8	9.6	.2	.2	.0		1	0
5440.0	5448.0	C	1.1	248	.9	77	264	9.8	9.7	.3	.0	.0		1	0
5442.0	5450.0	A	1.9	228	.9	75	259	9.9	9.7	.3	-.1	.2		1	0
5444.0	5452.0	A	1.9	208	.9	73	253	9.9	9.7	.1	-.1	.2		1	0
5446.0	5454.0	A	1.8	199	.9	71	247	10.0	9.8	.1	.0	.2		1	0
5448.0	5456.0	A	1.0	187	1.0	69	242	10.1	9.9	.1	.1	.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5450.0	5458.0	A	.7	203	1.0	67	238	10.1	9.9	.1	.1	.1		1	0
5452.0	5460.0	B	1.8	279	1.0	64	234	10.2	10.0		.0		-.1	1	2
5454.0	5462.0	B	2.8	181	1.1	62	230	10.3	10.0	-.5	-.1	.4		1	0
5456.0	5464.0	B	2.8	121	1.1	60	227	10.3	10.0	-.4	.3	.5		1	0
5458.0	5466.0	B	2.1	109	1.1	58	225	10.4	10.1	-.2	.4	.4		1	0
5460.0	5468.0	B	1.8	117	1.2	56	223	10.4	10.1	-.2	.3	.4		1	0
5462.0	5470.0	B	1.6	140	1.2	54	220	10.4	10.1	-.2	.2	.3		1	0
5464.0	5472.0	A	7.1	223	1.2	52	218	10.4	10.0	.0	-1.1	-.1		1	0
5466.0	5474.0	A	4.3	138	1.3	50	215	10.3	10.0	-.6	.0	.8		1	0
5468.0	5476.0	A	3.8	145	1.3	48	212	10.3	10.0	-.5	.0	.7		1	0
5470.0	5478.0	A	2.1	103	1.3	46	209	10.3	9.9	-.2	.3	.4		1	0
5472.0	5480.0	A	2.0	97	1.3	45	206	10.2	9.9	-.2	.3	.4		1	0
5474.0	5482.0	A	1.4	345	1.3	42	202	10.1	9.9	.3	.4	-.1		1	0
5476.0	5484.0	A	2.6	345	1.4	40	199	10.1	9.8	.4	.6	-.2		1	0
5478.0	5486.0	A	.7	196	1.4	39	196	10.1	9.8	.0	.1	.1		1	0
5480.0	5488.0	A	1.4	186	1.4	38	195	10.1	9.8	.0	.0	.1		1	0
5482.0	5490.0	A	1.6	206	1.4	38	194	10.0	9.7	-.1	.0	.0		1	0
5484.0	5492.0	A	1.7	85	1.4	38	195	10.0	9.7	.1	.3	.4		1	0
5486.0	5494.0	A	1.8	82	1.4	38	196	9.9	9.6	.0	.3	.4		1	0
5488.0	5496.0	A	1.1	79	1.3	38	197	9.9	9.6	.1	.3	.2		1	0
5490.0	5498.0	A	1.0	75	1.3	37	199	9.9	9.6	.1	.3	.2		1	0
5492.0	5500.0	B	1.0	78	1.3	37	200	9.9	9.6	.1	.3	.2		1	0
5494.0	5502.0	C	.6	24	1.3	36	200	9.9	9.6	.1	.3	.1		1	0
5496.0	5504.0	B	1.2	10	1.3	35	199	9.9	9.6	-.1	.4	.0		1	0
5498.0	5506.0	B	4.4	72	1.3	34	198	9.9	9.6	.3	.7	.7		1	0
5500.0	5508.0	A	3.3	49	1.4	33	196	9.9	9.6	.4	.7	.4		1	0
5502.0	5510.0	A	1.8	205	1.4	33	194	10.0	9.6	.2	-.1	.0		1	0
5504.0	5512.0	A	2.0	211	1.4	32	191	10.0	9.6	.2	-.1	.0		1	0
5506.0	5514.0	A	3.5	215	1.4	30	189	10.0	9.6	.1	-.3	-.2		1	0
5508.0	5516.0	A	5.4	207	1.5	29	186	10.1	9.7	-.1	-.7	-.2		1	0
5510.0	5518.0	A	2.3	194	1.5	28	184	10.1	9.7	-.1	-.2	.0		1	0
5512.0	5520.0	A	2.1	156	1.5	27	182	10.2	9.7	-.2	-.1	.3		1	0
5514.0	5522.0	A	1.2	151	1.5	25	179	10.2	9.8	-.1	.1	.2		1	0
5516.0	5524.0	A	1.2	142	1.5	24	176	10.3	9.8	-.1	.1	.2		1	0
5518.0	5526.0	A	.9	113	1.5	22	173	10.3	9.9	.0	.2	.3		1	0
5520.0	5528.0	A	1.2	207	1.5	21	170	10.4	10.0	.1	.1	.0		1	0
5526.0	5534.0	A	1.5	170	1.6	19	162	10.6	10.2	-.1	.0	.1		1	0
5528.0	5536.0	A	1.4	230	1.6	19	159	10.7	10.3	.0	.1	.0		1	0
5530.0	5538.0	A	1.1	195	1.6	19	157	10.7	10.3	-.2	.1	.1		1	0
5532.0	5540.0	B	5.8	164	1.6	18	153	10.7	10.2	-.4			-.4	1	3
5534.0	5542.0	B	4.1	141	1.6	18	149	10.7	10.2	-.4			-.1	1	3
5536.0	5544.0	B	8.6	206	1.6	18	145	10.6	10.1		-.6		-.8	1	2
5538.0	5546.0	A	1.9	73	1.6	17	140	10.6	10.0	-.3	.0	.5		1	0
5540.0	5548.0	A	2.2	59	1.5	16	135	10.5	10.0	-.3	.0	.6		1	0
5542.0	5550.0	A	2.2	49	1.5	14	129	10.4	9.9	-.3	.0	.6		1	0
5544.0	5552.0	A	2.2	39	1.5	13	124	10.3	9.9	-.3	.1	.6		1	0
5546.0	5554.0	B	3.3	14	1.5	11	119	10.2	9.8	-.2	.2	.8		1	0
5552.0	5560.0	A	.9	343	1.4	7	109	10.1	9.9	.1	.1	.4		1	0
5554.0	5562.0	A	3.5	204	1.4	6	107	10.1	9.9	.4	.1	-.4		1	0
5558.0	5566.0	B	.5	296	1.4	6	103	10.1	9.9	-.2	.1	.3		1	0
5560.0	5568.0	B	.8	288	1.4	5	102	10.0	9.9	-.1	.2	.3		1	0
5562.0	5570.0	A	.6	337	1.4	3	99	10.0	9.9	-.1	.1	.3		1	0
5564.0	5572.0	A	.8	259	1.4	2	96	10.0	9.9	.0	.1	.2		1	0
5566.0	5574.0	A	1.0	252	1.3	0	91	10.0	9.8	.1	.2	.2		1	0
5568.0	5576.0	A	1.2	254	1.3	358	86	9.9	9.8	.1	.2	.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5570.0	5578.0	A	2.0	220	1.2	357	81	9.9	9.8	.2	.2	.0		1	0
5572.0	5580.0	B	17.2	308	1.2	356	75	9.9	9.8	-.4	1.8			1	4
5574.0	5582.0	A	2.2	276	1.1	355	70	9.9	9.7	-.4	.3	.3		1	0
5576.0	5584.0	A	2.1	215	1.0	354	66	9.9	9.7	.1	.3	.0		1	0
5578.0	5586.0	A	1.0	224	1.0	353	62	10.0	9.8	.0	.1	.1		1	0
5580.0	5588.0	B	.3	282	.9	352	58	10.0	9.8	-.1	.0	.2		1	0
5582.0	5590.0	B	.3	315	.9	351	55	10.1	9.8	-.1	-.1	.2		1	0
5584.0	5592.0	B	2.5	355	.8	351	52	10.2	9.9	-.4	-.3	.5		1	0
5586.0	5594.0	B	1.0	9	.8	351	49	10.3	9.9	-.3	-.2	.2		1	0
5588.0	5596.0	C	1.3	42	.7	351	46	10.4	10.0	-.2	-.3	.1		1	0
5590.0	5598.0	D	2.7	65	.7	351	43	10.5	10.1	-.1	-.5	-.1		1	0
5592.0	5600.0	C	1.8	101	.7	351	40	10.6	10.1	.1	-.2	-.2		1	0
5594.0	5602.0	D	5.8	71	.7	352	39	10.7	10.2	.2	-1.0	-.5		1	0
5596.0	5604.0	D	3.8	99	.7	354	37	10.8	10.3	.0			-.5	1	3
5598.0	5606.0	B	3.4	71	.7	356	36	10.9	10.4	-.1	-.6	-.3		1	0
5600.0	5608.0	A	3.4	68	.7	357	35	11.0	10.5	-.2	-.7	-.3		1	0
5602.0	5610.0	A	.8	144	.7	359	33	11.1	10.6	-.1	-.1	-.1		1	0
5604.0	5612.0	A	.7	153	.7	0	31	11.2	10.6	-.1	.0	.0		1	0
5606.0	5614.0	A	.7	101	.7	2	28	11.3	10.7	-.1	-.2	-.1		1	0
5608.0	5616.0	A	.9	59	.7	4	26	11.3	10.7	-.2	-.3	.0		1	0
5610.0	5618.0	A	1.4	21	.7	4	25	11.3	10.7	-.3	-.4	.1		1	0
5612.0	5620.0	A	2.2	27	.7	3	26	11.2	10.6	-.2	-.6	.0		1	0
5614.0	5622.0	A	1.6	356	.7	2	29	11.1	10.5	-.4	-.4	.2		1	0
5616.0	5624.0	C	6.1	282	.7	0	31	11.0	10.3	-.3	.3	1.1		1	0
5618.0	5626.0	D	7.5	290	.8	359	34	10.9	10.2	-.5	.2	1.4		1	0
5620.0	5628.0	B	7.6	288	.8	358	35	10.7	10.1	-.5	.3			1	4
5622.0	5630.0	B	5.0	281	.7	357	34	10.5	10.0	-.3	.3			1	4
5624.0	5632.0	B	2.9	188	.7	357	32	10.2	9.9	.3	.4			1	4
5626.0	5634.0	A	4.8	178	.6	356	28	10.0	9.7	.4	.6	-.4		1	0
5628.0	5636.0	A	1.7	152	.6	356	24	9.9	9.7	.1	.1	-.2		1	0
5630.0	5638.0	A	.5	119	.5	355	20	9.9	9.6	-.1	-.1	-.1		1	0
5632.0	5640.0	B	.3	102	.5	356	14	9.8	9.6	-.1	-.1	.0		1	0
5634.0	5642.0	B	.4	91	.4	358	10	9.8	9.6	-.1	-.1	.0		1	0
5636.0	5644.0	C	.7	54	.4	9	4	9.8	9.6	-.1	-.1	-.1		1	0
5638.0	5646.0	B	.7	108	.3	27	358	9.8	9.6	.1	.0	-.1		1	0
5640.0	5648.0	B	.7	78	.3	43	352	9.8	9.6	.1	.0	-.1		1	0
5642.0	5650.0	B	.9	28	.3	43	347	9.9	9.7	-.1	-.1	-.1		1	0
5644.0	5652.0	B	2.3	35	.3	44	342	9.9	9.7	-.2	-.3	-.4		1	0
5646.0	5654.0	A	5.0	21	.3	46	338	9.9	9.8	.0	-.6	-.6		1	0
5648.0	5656.0	A	3.7	321	.4	49	335	10.0	9.8	.0	-.6	.1		1	0
5650.0	5658.0	A	4.3	359	.4	53	331	10.0	9.9	.1	-.7	-.4		1	0
5652.0	5660.0	A	4.0	346	.5	56	328	10.1	9.9	.1	-.7	-.3		1	0
5654.0	5662.0	B	2.6	162	.5	59	323	10.1	9.9	.3	.4	.1		1	0
5656.0	5664.0	A	1.7	48	.5	60	318	10.1	9.9	.2	.0	-.4		1	0
5658.0	5666.0	A	.5	57	.6	61	313	10.1	9.9	.1	.0	-.2		1	0
5660.0	5668.0	A	.2	84	.6	63	310	10.1	9.9	.1	.1	-.1		1	0
5662.0	5670.0	A	1.1	86	.5	63	310	10.0	9.9	.2	.2	-.2		1	0
5664.0	5672.0	A	2.3	97	.5	62	314	10.0	9.8	.4	.3	-.3		1	0
5666.0	5674.0	A	2.3	105	.4	60	320	9.9	9.7	.4	.3	-.3		1	0
5668.0	5676.0	A	2.7	105	.4	56	326	9.9	9.7	.4	.4	-.4		1	0
5670.0	5678.0	B	2.9	231	.3	53	330	9.8	9.6	-.1	.1	.4		1	0
5672.0	5680.0	B	2.6	246	.3	53	332	9.8	9.6	.0	.0	.4		1	0
5674.0	5682.0	B	2.8	250	.3	54	330	9.8	9.6	-.1	-.1	.4		1	0
5676.0	5684.0	B	5.7	260	.3	55	328	9.8	9.6	-.3	-.4	.8		1	0
5678.0	5686.0	B	6.9	73	.3	58	325	9.8	9.5	.6	.4	-1.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5680.0	5688.0	A	9.1	167	.4	61	321	9.8	9.5	.0	1.4	.6		1	0
5682.0	5690.0	A	5.0	172	.4	66	317	9.8	9.5	.1	.7	.4		1	0
5684.0	5692.0	A	5.4	165	.4	69	312	9.8	9.5	.1	.8	.4		1	0
5686.0	5694.0	A	3.6	166	.5	70	306	9.8	9.5	.1	.5	.3		1	0
5688.0	5696.0	A	1.9	315	.5	70	301	9.8	9.6	-.1	-.3	-.1		1	0
5690.0	5698.0	A	2.7	306	.5	70	296	9.8	9.6	-.3	-.4	-.1		1	0
5692.0	5700.0	A	2.7	304	.5	70	292	9.8	9.6	-.3	-.4	-.2		1	0
5694.0	5702.0	A	3.4	288	.6	70	287	9.8	9.6	-.6	-.5	-.1		1	0
5696.0	5704.0	C	2.0	26	.6	69	283	9.8	9.6		.2		-.1	1	2
5698.0	5706.0	D	2.7	208	.6	68	279	9.8	9.6		-.1		.2	1	2
5700.0	5708.0	C	8.4	204	.6	67	276	9.8	9.6		-.4		.5	1	2
5702.0	5710.0	B	7.8	228	.6	67	273	9.8	9.6	-.3	-.8	.9		1	0
5704.0	5712.0	A	5.6	239	.6	66	270	9.8	9.6	-.1	-.7	.4		1	0
5706.0	5714.0	A	3.0	222	.7	63	268	9.8	9.6	-.1	-.3	.3		1	0
5708.0	5716.0	A	9.5	224	.7	60	267	9.8	9.7	-1.9	-1.1	1.1		1	0
5710.0	5718.0	A	6.7	212	.7	59	267	9.8	9.7	-1.3	-.6	.9		1	0
5712.0	5720.0	A	7.1	213	.7	61	271	9.8	9.7	-1.3	-.5	1.0		1	0
5714.0	5722.0	A	7.5	219	.6	65	278	9.8	9.5	-1.4	-.6	1.0		1	0
5716.0	5724.0	A	7.6	27	.6	69	284	9.7	9.5	.7	.4	-1.3		1	0
5718.0	5726.0	C	1.9	180	.5	72	287	9.7	9.5		.2		.2	1	2
5720.0	5728.0	D	1.2	128	.5	73	290	9.7	9.4		.3		.1	1	2
5722.0	5730.0	D	4.0	37	.5	72	290	9.7	9.4	.3	.3	-.7		1	0
5724.0	5732.0	D	3.0	32	.5	72	289	9.7	9.4	.1	.2	-.5		1	0
5726.0	5734.0	D	3.9	15	.5	71	286	9.7	9.4	-.1	.1	-.7		1	0
5728.0	5736.0	D	3.4	184	.5	71	282	9.7	9.4	.0	.2	.5		1	0
5730.0	5738.0	D	2.6	171	.5	71	279	9.7	9.4	.0	.2	.4		1	0
5732.0	5740.0	C	1.9	148	.5	70	275	9.7	9.4	.1	.3	.2		1	0
5734.0	5742.0	C	2.0	148	.6	68	272	9.7	9.4	.2	.3	.2		1	0
5736.0	5744.0	B	.8	123	.6	67	268	9.7	9.4	.2	.2	.0		1	0
5738.0	5746.0	B	.4	84	.6	65	265	9.7	9.4	.2	.2	.0		1	0
5740.0	5748.0	B	.5	248	.7	64	261	9.7	9.4	.1	.0	.0		1	0
5742.0	5750.0	B	.7	332	.7	63	257	9.8	9.5	.2	.1	-.1		1	0
5744.0	5752.0	B	1.1	310	.7	61	253	9.8	9.5	.2	.0	-.2		1	0
5746.0	5754.0	C	1.5	315	.7	59	249	9.8	9.5	.2	.0	-.2		1	0
5748.0	5756.0	D	1.6	312	.7	57	245	9.8	9.5	.1	.0	-.3		1	0
5750.0	5758.0	D	1.4	315	.7	55	241	9.8	9.5	.1	.1	-.2		1	0
5752.0	5760.0	D	1.4	334	.8	52	238	9.8	9.5	.2	.2	-.2		1	0
5754.0	5762.0	D	.3	291	.8	50	235	9.8	9.5	.1	.1	.0		1	0
5756.0	5764.0	D	.5	134	.8	48	232	9.9	9.5	.1	.2	.1		1	0
5758.0	5766.0	C	2.0	87	.8	45	228	9.9	9.6	.2	.4	.2		1	0
5760.0	5768.0	C	2.1	74	.9	43	224	9.9	9.6	.2	.5	.2		1	0
5770.0	5778.0	A	3.0	213	1.0	33	207	10.1	9.8	-.1	-.4	.0		1	0
5772.0	5780.0	A	.8	137	1.1	32	204	10.1	9.8	.0	.1	.1		1	0
5774.0	5782.0	A	2.0	94	1.1	31	202	10.1	9.8	.0	.3	.3		1	0
5776.0	5784.0	A	2.0	82	1.1	30	200	10.0	9.7	.1	.4	.3		1	0
5778.0	5786.0	A	2.9	71	1.1	29	198	9.9	9.7	.1	.5	.4		1	0
5780.0	5788.0	A	2.7	109	1.1	29	196	9.9	9.6	.0	.2	.5		1	0
5782.0	5790.0	A	2.8	123	1.1	28	195	9.9	9.6	.0	.0	.5		1	0
5784.0	5792.0	A	3.0	125	1.1	27	194	9.8	9.6	.0	.0	.5		1	0
5786.0	5794.0	B	6.1	56	1.1	27	194	9.8	9.5	.9	1.0	.7		1	0
5788.0	5796.0	A	1.2	261	1.1	26	195	9.7	9.5	.0	.1	-.2		1	0
5790.0	5798.0	A	1.9	95	1.1	26	195	9.6	9.4	-.1	.2	.3		1	0
5792.0	5800.0	A	3.0	94	1.0	27	196	9.6	9.3	-.1	.3	.5		1	0
5794.0	5802.0	A	3.4	91	1.0	27	196	9.5	9.2	-.1	.3	.6		1	0
5796.0	5804.0	A	5.7	59	1.0	27	196	9.4	9.1	.0	.9	.7		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5798.0	5806.0	B	5.7	113	1.0	26	196	9.3	9.0	.1	.0	.9		1	0
5800.0	5808.0	B	8.2	74	1.0	26	197	9.2	8.9	.3	.9	1.1		1	0
5802.0	5810.0	B	7.7	72	1.0	25	198	9.2	8.9	.4	.9	1.0		1	0
5804.0	5812.0	B	7.2	96	.9	25	201	9.2	8.8	.3	.5	1.1		1	0
5806.0	5814.0	A	6.1	65	.9	27	203	9.1	8.9	.4	.9	.6		1	0
5808.0	5816.0	A	4.4	40	.9	28	205	9.2	8.9	.1	.8	.2		1	0
5810.0	5818.0	B	5.0	72	.9	29	205	9.2	9.0	-.1	.7	.6		1	0
5812.0	5820.0	B	7.9	94	.9	30	203	9.3	8.9	-.3	.6	1.2		1	0
5814.0	5822.0	B	8.2	107	.9	29	201	9.2	8.8	-.3	.2	1.3		1	0
5816.0	5824.0	D	10.0	122	.9	29	200	9.1	8.7	-.5	-.2	1.5		1	0
5818.0	5826.0	D	9.0	133	.9	26	201	9.1	8.7	-.5	-.4	1.3		1	0
5820.0	5828.0	D	7.1	119	.9	24	201	9.1	8.7	.2	.0	1.1		1	0
5822.0	5830.0	C	8.5	115	.9	21	199	9.1	8.8		.0		.7	1	2
5824.0	5832.0	A	7.3	79	1.0	20	196	9.1	8.8	-.1	.7	1.0		1	0
5826.0	5834.0	C	7.7	88	1.0	18	193	9.1	8.8	-.4			.8	1	3
5830.0	5838.0	C	15.8	83	.9	24	196	9.1	8.8	-.6	1.1			1	4
5834.0	5842.0	B	8.1	35	.8	33	204	9.1	8.9		1.4		.8	1	2
5836.0	5844.0	B	6.7	70	.8	34	207	9.1	8.8		.9		.8	1	2
5838.0	5846.0	B	7.9	83	.7	32	210	9.1	8.8		.9		.9	1	2
5840.0	5848.0	B	6.4	74	.7	31	212	9.0	8.8	-.2	.9	.7		1	0
5842.0	5850.0	C	17.8	129	.7	31	211	9.0	8.8		-.3		1.3	1	2
5844.0	5852.0	C	10.0	76	.7	31	207	9.0	8.8		1.2		1.2	1	2
5846.0	5854.0	B	7.2	321	.8	30	204	9.1	8.8	.9	.6	-1.0		1	0
5848.0	5856.0	B	9.1	311	.8	31	202	9.1	8.8	1.6	.6	-1.3		1	0
5850.0	5858.0	B	8.5	311	.8	30	205	9.1	8.8	.4	.5	-1.3		1	0
5852.0	5860.0	B	4.8	255	.8	32	208	9.0	8.8	-.6	-.4	-.5		1	0
5858.0	5866.0	A	14.3	248	.8	30	205	9.0	8.8	.5	-1.5	-1.5		1	0
5860.0	5868.0	B	5.9	249	.8	30	204	9.0	8.8	.1			-.6	1	3
5870.0	5878.0	B	5.5	241	.8	28	202	9.1	8.8	.0			-.5	1	3
5872.0	5880.0	B	7.5	285	.7	35	208	9.0	8.8	.5			-.6	1	3
5874.0	5882.0	A	10.2	255	.7	42	218	9.0	8.8	-.8	-1.2	-1.0		1	0
5876.0	5884.0	D	9.6	196	.6	48	227	8.9	8.7	-.2	-1.2	.8		1	0
5878.0	5886.0	D	15.3	280	.6	49	232	8.9	8.8	.1	-1.5			1	4
5880.0	5888.0	D	13.6	268	.5	46	232	8.9	8.8	-.2			-1.5	1	3
5886.0	5894.0	D	16.7	228	.6	42	225	9.0	8.8	-1.2			-1.4	1	3
5888.0	5896.0	D	8.7	206	.7	41	222	9.1	8.8	-.7	-1.2	.4		1	0
5890.0	5898.0	A	14.1	97	.6	39	222	9.1	8.9	-.5	1.4	1.8		1	0
5892.0	5900.0	A	15.1	100	.6	40	224	9.2	9.0	-.6	1.5	2.0		1	0
5894.0	5902.0	A	16.5	100	.6	41	226	9.3	9.1	-.5	1.7	2.2		1	0
5896.0	5904.0	A	17.3	99	.6	42	223	9.3	9.1	-.3	1.7	2.4		1	0
5898.0	5906.0	A	6.0	172	.7	41	219	9.3	9.1	-.5	-.6	.7		1	0
5904.0	5912.0	A	10.4	168	.8	34	213	9.2	9.0	-1.0	-1.1	1.2		1	0
5906.0	5914.0	A	11.4	170	.8	34	212	9.1	8.9	-1.0	-1.2	1.2		1	0
5908.0	5916.0	A	11.2	164	.8	32	209	9.1	8.9	-1.0	-1.1	1.3		1	0
5910.0	5918.0	A	10.9	162	.8	29	207	9.1	8.8	-.9	-1.1	1.2		1	0
5912.0	5920.0	B	12.9	151	.8	28	207	9.1	8.8	-1.4			.3	1	3
5914.0	5922.0	A	13.4	169	.8	29	210	9.2	8.9	-1.4	-1.5	1.4		1	0
5916.0	5924.0	A	9.4	158	.8	31	210	9.3	8.9	-1.1	-.8	1.2		1	0
5918.0	5926.0	A	7.1	73	.8	30	209	9.4	8.9	-.2	1.0	.8		1	0
5920.0	5928.0	B	7.9	102	.8	27	205	9.3	8.9	-.4	.4			1	4
5922.0	5930.0	A	6.7	108	.9	22	197	9.2	8.9	-.3	.1	1.1		1	0
5924.0	5932.0	A	7.9	86	1.0	15	184	9.2	8.9	-.5	.3	1.3		1	0
5926.0	5934.0	A	8.3	85	1.1	9	169	9.2	9.0	-.5	.0	1.4		1	0
5928.0	5936.0	A	5.4	71	1.1	6	162	9.4	9.0	-.5	.2	.9		1	0
5930.0	5938.0	A	8.7	58	1.1	4	156	9.5	9.0	-.5	.4	1.5		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL	CORR. GRADE		DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5932.0	5940.0	D	10.9	55	1.1	4	154	9.6	9.0	-.7	.4			1	4
5934.0	5942.0	D	12.4	45	1.1	3	153	9.6	9.0	-.6	.8			1	4
5936.0	5944.0	D	10.3	45	1.2	3	152	9.5	9.0	-.5	.7			1	4
5938.0	5946.0	C	14.4	246	1.2	3	152	9.4	9.1	1.3			-.9	1	3
5940.0	5948.0	C	18.5	276	1.2	3	152	9.4	9.0	2.2			-.3	1	3
5942.0	5950.0	C	18.4	276	1.2	3	153	9.3	9.0	2.1			-.2	1	3
5944.0	5952.0	D	8.3	282	1.2	4	152	9.2	8.9	1.0			.1	1	3
5962.0	5970.0	D	12.7	148	1.2	357	130	9.1	9.0	-.7			-1.2	1	3
5964.0	5972.0	D	16.0	78	1.1	353	125	9.2	9.0	-1.9	-1.7			1	4
5966.0	5974.0	C	25.2	52	1.1	351	122	9.3	8.9		-1.4		1.4	1	2
5968.0	5976.0	C	24.7	49	1.2	350	119	9.4	8.9		-1.4		1.3	1	2
5970.0	5978.0	C	24.4	47	1.2	350	116	9.5	8.9		-1.4		1.3	1	2
5974.0	5982.0	B	14.0	27	1.2	350	115	9.5	9.2	-.7	.0	2.5		1	0
5976.0	5984.0	A	9.8	27	1.2	350	115	9.5	9.2	-.4	.1	1.7		1	0
5978.0	5986.0	A	5.1	22	1.2	349	114	9.5	9.2	-.3	.1	1.0		1	0
5980.0	5988.0	A	5.2	12	1.2	348	112	9.5	9.2	-.3	.3	1.0		1	0
5982.0	5990.0	A	3.7	4	1.1	347	109	9.5	9.2	.0	.3	.7		1	0
5984.0	5992.0	A	2.2	331	1.1	345	106	9.5	9.2	.0	.4	.4		1	0
5986.0	5994.0	A	1.6	288	1.1	344	103	9.5	9.2	.1	.4	.2		1	0
5988.0	5996.0	A	2.9	279	1.1	343	99	9.5	9.2	.3	.6	.2		1	0
5990.0	5998.0	A	2.8	271	1.1	342	97	9.5	9.2	.3	.5	.1		1	0
5992.0	6000.0	A	4.1	243	1.1	341	95	9.5	9.1	.4	.7	-.2		1	0
5994.0	6002.0	A	4.4	231	1.1	340	93	9.5	9.1	.4	.6	-.3		1	0
5996.0	6004.0	A	9.0	279	1.1	339	91	9.4	9.1	.9	1.6	.4		1	0
5998.0	6006.0	A	8.8	277	1.1	339	90	9.4	9.0	.8	1.5	.3		1	0
6000.0	6008.0	A	4.7	262	1.1	339	89	9.3	9.0	.5	.8	.1		1	0
6002.0	6010.0	A	4.4	249	1.1	339	88	9.3	9.0	.5	.7	-.1		1	0
6004.0	6012.0	C	5.0	223	1.1	339	86	9.3	9.0	.1	.6	-.4		1	0
6006.0	6014.0	B	5.2	196	1.1	340	85	9.3	9.0	.1	.4	-.6		1	0
6008.0	6016.0	C	5.1	189	1.1	340	84	9.3	9.0		.3		-.2	1	2
6010.0	6018.0	C	3.8	184	1.1	341	84	9.3	9.0		.2		-.1	1	2
6012.0	6020.0	B	17.8	172	1.1	342	83	9.3	9.0	1.3	.0			1	4
6014.0	6022.0	A	12.1	170	1.1	342	83	9.3	9.1	1.3	-.1	-1.8		1	0
6016.0	6024.0	A	5.9	169	1.0	343	82	9.4	9.1	1.1	.0	-.8		1	0
6018.0	6026.0	A	5.8	152	1.0	342	80	9.4	9.1	1.0	-.3	-.7		1	0
6020.0	6028.0	D	1.5	210	1.0	341	78	9.4	9.0	-.9	.2	.0		1	0
6022.0	6030.0	D	3.4	332	1.0	339	76	9.4	9.0	-.9	.2	.7		1	0
6024.0	6032.0	A	1.6	279	1.1	336	73	9.4	9.0	.0	.3	.3		1	0
6026.0	6034.0	A	2.8	264	1.0	334	70	9.4	9.0	.0	.5	.3		1	0
6028.0	6036.0	A	3.9	244	1.0	333	66	9.3	9.0	.1	.6	.1		1	0
6030.0	6038.0	A	3.8	240	1.0	333	63	9.3	8.9	.2	.6	.1		1	0
6032.0	6040.0	A	5.1	241	.9	333	61	9.3	8.9	.2	.8	.2		1	0
6034.0	6042.0	A	6.0	253	.9	334	59	9.3	8.9	.3	.9	.4		1	0
6036.0	6044.0	A	6.6	247	.9	334	57	9.3	9.0	.3	1.0	.3		1	0
6038.0	6046.0	A	7.2	277	.8	335	55	9.3	9.0	.1	.9	.9		1	0
6040.0	6048.0	A	3.0	270	.8	334	54	9.3	9.0	.1	.4	.4		1	0
6042.0	6050.0	A	3.4	265	.8	334	51	9.3	9.0	.1	.4	.4		1	0
6044.0	6052.0	A	3.4	264	.7	333	49	9.4	9.0	.1	.4	.4		1	0
6046.0	6054.0	B	5.7	216	.7	333	47	9.4	9.0	.5			.4	1	3
6048.0	6056.0	B	2.1	244	.7	333	45	9.4	9.0	.0			.3	1	3
6050.0	6058.0	A	3.6	236	.6	335	42	9.4	9.1	.2	.5	.2		1	0
6052.0	6060.0	A	3.9	236	.6	336	39	9.4	9.1	.2	.6	.3		1	0
6054.0	6062.0	A	4.1	241	.6	336	36	9.4	9.1	.1	.6	.4		1	0
6056.0	6064.0	A	3.9	244	.6	336	32	9.3	9.1	.0	.5	.4		1	0
6058.0	6066.0	A	4.0	262	.6	336	27	9.3	9.1	-.1	.3	.6		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL	CORR. GRADE		DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6060.0	6068.0	A	4.6	264	.5	335	23	9.3	9.1	-.1	.3	.7		1	0
6062.0	6070.0	B	9.1	279	.5	334	18	9.3	9.1	-.4	.2	1.5		1	0
6064.0	6072.0	A	7.4	262	.4	334	14	9.2	9.0	-.2	.4	1.1		1	0
6066.0	6074.0	A	7.7	259	.4	330	12	9.2	8.9	-.2	.4	1.1		1	0
6068.0	6076.0	A	8.2	255	.4	336	10	9.1	8.9	-.1	.5	1.2		1	0
6070.0	6078.0	A	6.3	266	.3	343	7	9.1	8.9	-.3	.2	1.0		1	0
6072.0	6080.0	A	6.6	270	.3	345	5	9.2	8.9	-1.0	.1	1.0		1	0
6074.0	6082.0	B	13.5	249	.3	341	4	9.2	8.9	-.5			1.4	1	3
6076.0	6084.0	A	9.6	258	.3	341	4	9.2	9.0	-.6	.4	1.5		1	0
6078.0	6086.0	B	10.6	257	.3	348	3	9.3	9.0	-.6	.4			1	4
6080.0	6088.0	B	10.4	253	.3	356	2	9.3	9.0	-.5	.5			1	4
6082.0	6090.0	A	9.5	262	.2	360	2	9.3	9.0	-.9	.2	1.5		1	0
6084.0	6092.0	A	5.4	334	.3	360	1	9.3	9.0	-.4	-.8	.4		1	0
6086.0	6094.0	D	21.6	111	.3	9	359	9.2	9.0	2.3			-1.0	1	3
6088.0	6096.0	A	5.7	198	.3	17	358	9.2	9.0	.2	.8	.3		1	0
6090.0	6098.0	A	7.8	205	.3	20	357	9.2	8.9	.4	1.1	.5		1	0
6092.0	6100.0	A	10.2	205	.3	21	358	9.1	8.9	.5	1.4	.7		1	0
6094.0	6102.0	A	8.8	203	.3	20	358	9.1	8.9	.4	1.2	.6		1	0
6096.0	6104.0	A	7.0	204	.3	22	357	9.2	8.9	.3	1.0	.5		1	0
6098.0	6106.0	A	6.8	201	.3	23	356	9.2	8.9	.3	.9	.4		1	0
6100.0	6108.0	A	4.4	201	.3	23	356	9.1	8.9	.2	.6	.3		1	0
6102.0	6110.0	A	5.1	224	.3	24	357	9.1	8.9	.0	.5	.6		1	0
6104.0	6112.0	A	4.4	230	.3	23	359	9.1	8.9	.0	.4	.5		1	0
6106.0	6114.0	A	4.5	235	.4	24	2	9.0	8.9	.0	.4	.5		1	0
6108.0	6116.0	A	4.3	239	.4	22	5	9.0	8.9	.0	.3	.5		1	0
6110.0	6118.0	A	5.0	214	.4	21	8	9.1	8.8	.2	.6	.3		1	0
6112.0	6120.0	A	5.8	218	.5	17	17	9.1	8.8	.2	.8	.3		1	0
6114.0	6122.0	A	5.0	224	.6	12	26	9.1	8.8	.3	.8	.3		1	0
6116.0	6124.0	A	4.6	220	.6	9	35	9.2	8.8	.2	.6	.1		1	0
6118.0	6126.0	A	3.3	221	.7	7	41	9.2	8.8	.2	.4	.1		1	0
6120.0	6128.0	A	3.5	224	.7	7	43	9.1	8.8	.2	.5	.1		1	0
6122.0	6130.0	A	3.4	223	.7	8	43	9.1	8.8	.2	.5	.1		1	0
6124.0	6132.0	A	3.7	222	.8	11	42	9.1	8.7	.2	.5	.1		1	0
6126.0	6134.0	A	3.2	217	.8	12	40	9.1	8.7	.1	.4	.0		1	0
6128.0	6136.0	A	3.2	232	.8	14	38	9.1	8.7	.0	.4	.2		1	0
6130.0	6138.0	A	3.3	239	.8	16	36	9.1	8.7	.0	.4	.2		1	0
6132.0	6140.0	A	4.1	256	.8	17	33	9.1	8.6	.0	.4	.4		1	0
6134.0	6142.0	A	3.5	242	.8	18	30	9.1	8.6	.0	.4	.3		1	0
6136.0	6144.0	A	5.0	152	.7	21	27	9.1	8.5	.3	.3	-.6		1	0
6138.0	6146.0	A	3.2	102	.7	24	26	9.1	8.5	.1	-.2	-.5		1	0
6140.0	6148.0	A	1.3	178	.7	28	26	9.1	8.5	.0	.1	-.1		1	0
6142.0	6150.0	A	1.6	230	.6	29	27	9.1	8.5	-.1	.1	.1		1	0
6144.0	6152.0	A	1.8	235	.6	29	28	9.1	8.5	-.1	.2	.1		1	0
6146.0	6154.0	A	3.7	205	.7	30	29	9.1	8.5	-.1	.5	.0		1	0
6148.0	6156.0	A	8.3	247	.7	31	29	9.1	8.5	-.3	.9	.8		1	0
6150.0	6158.0	A	3.1	257	.7	32	29	9.1	8.5	.0	.2	.3		1	0
6152.0	6160.0	B	1.3	228	.8	34	28	9.1	8.5		.1		.1	1	2
6154.0	6162.0	A	8.0	135	.8	36	28	9.1	8.5	.5	.2	-1.2		1	0
6156.0	6164.0	B	1.8	213	.8	35	27	9.1	8.5		.1		.1	1	2
6158.0	6166.0	A	17.2	191	.8	36	27	9.0	8.6	1.3	2.6	-.7		1	0
6160.0	6168.0	A	13.5	200	.9	35	26	9.0	8.6	.6	2.0	-.3		1	0
6162.0	6170.0	A	13.0	203	.9	34	26	9.0	8.6	.7	1.9	-.1		1	0
6164.0	6172.0	A	5.6	196	.9	35	26	9.0	8.6	.3	.7	-.2		1	0
6166.0	6174.0	A	3.7	187	.9	33	26	9.0	8.6	.3	.4	-.2		1	0
6168.0	6176.0	A	3.7	204	.9	34	26	9.0	8.5	.2	.5	.0		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6170.0	6178.0	A	3.4	203	.9	33	26	8.9	8.5	.2	.4	.0		1	0
6172.0	6180.0	A	5.5	195	.9	31	28	8.9	8.5	.5	.7	-.2		1	0
6174.0	6182.0	A	6.9	191	1.0	29	31	8.8	8.4	.8	.9	-.3		1	0
6176.0	6184.0	A	9.3	183	1.0	27	32	8.6	8.3	1.1	1.1	-.6		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED.#2-20 SAN JUAN,UTAH8X3X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5752.0	5760.0	D	.7	338	1.3	15	156	9.8	9.5	.1	.3	.1		1	0
5754.0	5762.0	D	.4	204	1.3	14	153	9.8	9.5	-.1	.1	.1		1	0
5756.0	5764.0	D	.3	145	1.3	13	150	9.8	9.5	-.1	.1	.2		1	0
5758.0	5766.0	C	1.9	91	1.3	11	147	9.8	9.6	-.3	.0	.4		1	0
5760.0	5768.0	C	2.2	91	1.3	10	143	9.9	9.6	-.4	-.1	.5		1	0
5768.0	5776.0	A	.5	298	1.3	6	130	10.0	9.7	.2	.2	.2		1	0
5770.0	5778.0	A	2.5	241	1.3	6	128	10.0	9.8	.2	.3	-.2		1	0
5772.0	5780.0	A	2.5	19	1.3	6	125	10.0	9.8	-.1	.2	.6		1	0
5774.0	5782.0	A	4.7	50	1.3	5	123	10.0	9.8	-.6	-.1	1.0		1	0
5776.0	5784.0	A	4.4	45	1.3	4	122	10.0	9.8	-.4	-.1	.9		1	0
5778.0	5786.0	A	3.6	78	1.3	3	121	9.9	9.7	-.7	-.4	.6		1	0
5780.0	5788.0	A	2.7	120	1.3	2	120	9.9	9.6	-.3	-.4	.2		1	0
5782.0	5790.0	A	3.0	134	1.3	2	120	9.9	9.6	-.2	-.4	.1		1	0
5784.0	5792.0	A	3.1	143	1.3	1	120	9.8	9.6	-.1	-.4	.0		1	0
5786.0	5794.0	B	9.7	71	1.3	1	121	9.8	9.5	-.9	-1.0	1.4		1	0
5788.0	5796.0	A	2.0	84	1.3	0	121	9.7	9.4	-.2	-.2	.4		1	0
5790.0	5798.0	A	2.4	78	1.3	360	121	9.6	9.3	.0	-.2	.4		1	0
5792.0	5800.0	A	3.5	85	1.3	359	121	9.5	9.3	-.3	-.4	.5		1	0
5794.0	5802.0	A	4.4	71	1.3	359	121	9.5	9.2	-.3	-.4	.7		1	0
5796.0	5804.0	A	5.7	71	1.2	358	120	9.4	9.1	-.6	-.5	.9		1	0
5798.0	5806.0	B	5.4	133	1.2	358	120	9.3	9.0	-1.2	-.7	.0		1	0
5800.0	5808.0	B	8.3	105	1.2	357	121	9.2	8.9	-1.3	-1.2	.5		1	0
5802.0	5810.0	B	6.5	91	1.2	357	122	9.1	8.9	-1.3	-.8	.7		1	0
5804.0	5812.0	B	8.4	128	1.2	357	124	9.1	8.9	-1.6	-1.2	.1		1	0
5806.0	5814.0	A	6.4	68	1.2	357	126	9.1	8.8	-.5	-.4	1.0		1	0
5808.0	5816.0	A	5.1	31	1.2	359	127	9.2	8.9	-.2	-.2	.9		1	0
5810.0	5818.0	B	6.5	83	1.2	359	128	9.2	9.0	-.6	-.6	.9		1	0
5812.0	5820.0	C	7.3	90	1.2	359	127	9.2	9.0	-.6	-.8	.8		1	0
5814.0	5822.0	B	8.1	102	1.2	358	125	9.2	9.0	-.8	-1.1	.7		1	0
5816.0	5824.0	B	8.4	132	1.2	356	124	9.0	8.9	-.6	-1.2	.0		1	0
5818.0	5826.0	B	6.7	154	1.2	356	124	9.0	8.8	-.4	-.8	-.4		1	0
5820.0	5828.0	C	5.7	145	1.2	355	124	9.0	8.8	-.6	-.7	-.2		1	0
5822.0	5830.0	B	3.1	146	1.2	355	124	9.0	8.8	-.4	-.3	.0		1	0
5824.0	5832.0	B	4.3	53	1.2	355	121	9.0	8.8	-.6	-.1	.8		1	0
5826.0	5834.0	B	6.4	78	1.2	353	118	9.0	8.8	-.8	-.7	.8		1	0
5828.0	5836.0	B	11.0	118	1.2	352	117	9.1	8.8	-1.8	-1.6	.1		1	0
5836.0	5844.0	B	6.4	100	1.1	356	128	9.1	8.8	-.4	-.8	.6		1	0
5838.0	5846.0	A	6.7	95	1.1	357	131	9.1	8.8	-.5	-.7	.7		1	0
5840.0	5848.0	B	5.5	113	1.2	356	134	9.0	8.8	-.6	-.7	.4		1	0
5842.0	5850.0	A	5.1	180	1.2	356	134	9.1	8.7	-.7	-.4	-.4		1	0
5846.0	5854.0	C	19.1	9	1.2	355	128	9.1	8.8	-.6	1.7			1	4
5848.0	5856.0	B	11.7	316	1.2	355	126	9.1	8.8	-.1	2.0	.5		1	0
5850.0	5858.0	C	6.7	165	1.2	355	126	9.1	8.8	-.1			-.6	1	3
5852.0	5860.0	B	18.2	16	1.2	356	128	9.1	8.8	-.8	1.3			1	4
5856.0	5864.0	C	5.4	290	1.2	356	129	9.1	8.7		.9		.4	1	2
5858.0	5866.0	B	10.2	257	1.2	355	128	9.1	8.7	.6	1.1	-1.1		1	0
5860.0	5868.0	B	15.7	254	1.2	353	127	9.1	8.7		1.7		-.1	1	2
5868.0	5876.0	C	18.6	270	1.2	352	125	9.0	8.7	2.1			.5	1	3
5870.0	5878.0	A	16.6	239	1.2	352	123	9.1	8.7	1.6	1.3	-2.2		1	0
5872.0	5880.0	A	9.6	253	1.1	354	128	9.1	8.7	.7	1.0	-1.1		1	0
5874.0	5882.0	A	8.3	247	1.1	359	134	9.1	8.7	.7	.6	-1.0		1	0
5876.0	5884.0	D	15.5	168	1.1	3	142	9.1	8.6	-.6			-1.5	1	3
5878.0	5886.0	D	12.8	246	1.1	6	149	9.0	8.6	1.5	.4	-1.8		1	0
5880.0	5888.0	D	12.0	268	1.1	5	151	9.1	8.6	1.3	1.0			1	4
5882.0	5890.0	D	24.2	236	1.1	2	150	9.1	8.6	1.8	-.2			1	4

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED.#2-20 SAN JUAN,UTAH8X3X10

CORRELATION INTERVAL	CORR. GRADE		DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5884.0	5892.0	D	9.0	250	1.1	1	149	9.1	8.7	.8	.4			1	4
5886.0	5894.0	D	14.7	300	1.1	0	145	9.1	8.7	1.6			.7	1	3
5888.0	5896.0	D	9.0	307	1.1	1	142	9.1	8.8	.9	1.5			1	4
5890.0	5898.0	A	9.7	64	1.1	0	141	9.2	8.8	-.9	-.2	1.6		1	0
5892.0	5900.0	A	8.6	74	1.1	359	142	9.2	8.9	-1.0	-.4	1.3		1	0
5894.0	5902.0	A	9.3	76	1.1	359	145	9.3	9.0	-1.0	-.4	1.5		1	0
5896.0	5904.0	A	8.8	77	1.1	359	145	9.4	9.0	-1.1	-.4	1.4		1	0
5898.0	5906.0	A	3.2	137	1.1	358	143	9.4	9.0	-.1	-.4	.2		1	0
5900.0	5908.0	B	19.5	207	1.1	358	140	9.4	9.0	.8	-1.2			1	4
5904.0	5912.0	A	8.4	178	1.2	357	136	9.3	8.9	.3	-.9	-.8		1	0
5906.0	5914.0	A	10.3	185	1.2	356	134	9.2	8.9	.2	-.9	-1.1		1	0
5908.0	5916.0	A	11.0	179	1.2	354	130	9.1	8.8	.2	-1.0	-1.1		1	0
5910.0	5918.0	A	10.4	178	1.2	354	129	9.1	8.8	.1	-.9	-1.1		1	0
5912.0	5920.0	A	15.7	188	1.2	354	128	9.1	8.8	.0	-1.1	-2.0		1	0
5914.0	5922.0	A	14.6	186	1.2	355	130	9.1	8.9	-.2	-1.2	-1.8		1	0
5916.0	5924.0	A	9.2	184	1.2	355	131	9.2	9.0	-.3	-.7	-1.0		1	0
5918.0	5926.0	B	9.6	84	1.2	355	130	9.2	9.0	-1.1			.1	1	3
5920.0	5928.0	A	6.9	112	1.2	353	127	9.2	9.0	-1.3	-.9	.4		1	0
5922.0	5930.0	A	4.8	154	1.2	349	118	9.2	8.9	-.8	-.5	-.3		1	0
5924.0	5932.0	A	3.7	143	1.1	345	109	9.2	8.9	-.5	-.4	-.2		1	0
5926.0	5934.0	A	5.6	126	1.1	339	99	9.2	8.9	-.3	-.7	-.3		1	0
5928.0	5936.0	A	5.5	185	1.1	334	89	9.3	9.1	.1	.2	-.7		1	0
5930.0	5938.0	A	3.9	70	1.0	332	84	9.3	9.2	-.3	-.6	.3		1	0
5958.0	5966.0	D	9.9	279	.9	327	64	9.2	8.8		1.3		1.2	1	2
5962.0	5970.0	D	15.2	164	.8	321	53	9.3	8.8		.9		-.6	1	2
5964.0	5972.0	D	5.3	10	.8	316	45	9.3	8.9	-1.1	-.7	.6		1	0
5974.0	5982.0	A	11.6	21	.2	276	347	9.4	9.1	-.3	-1.6	-1.0		1	0
5976.0	5984.0	A	7.7	19	.2	276	344	9.4	9.1	-.2	-1.0	-.7		1	0
5978.0	5986.0	A	3.8	22	.3	276	342	9.4	9.1	-.3	-.5	-.3		1	0
5980.0	5988.0	A	3.8	24	.3	277	341	9.4	9.1	-.3	-.5	-.4		1	0
5982.0	5990.0	A	.8	351	.3	350	341	9.5	9.1	-.2	-.2	.0		1	0
5984.0	5992.0	A	1.8	268	.3	59	340	9.5	9.2	-.2	-.1	.2		1	0
5986.0	5994.0	A	3.2	251	.3	86	339	9.5	9.2	-.1	.0	.5		1	0
5988.0	5996.0	A	3.3	248	.3	86	338	9.5	9.2	-.1	.0	.5		1	0
5990.0	5998.0	A	5.0	235	.2	86	336	9.5	9.2	.0	.2	.8		1	0
5992.0	6000.0	A	4.1	241	.2	86	335	9.4	9.2	-.2	.1	.6		1	0
5994.0	6002.0	D	9.7	284	.2	86	332	9.4	9.1		-1.0		.1	1	2
5996.0	6004.0	A	11.8	272	.1	86	330	9.3	9.1	-.8	-1.0	1.6		1	0
5998.0	6006.0	A	8.8	271	.1	86	326	9.3	9.0	-.6	-.8	1.1		1	0
6000.0	6008.0	A	6.5	261	.1	86	321	9.3	9.0	-.6	-.5	.9		1	0
6002.0	6010.0	A	4.9	254	.1	86	315	9.3	9.0	-.4	-.4	.7		1	0
6004.0	6012.0	B	7.3	216	.1	86	309	9.3	9.0	.0	.1	1.1		1	0
6006.0	6014.0	B	3.6	195	.1	86	304	9.3	9.0		.2		.4	1	2
6008.0	6016.0	B	15.0	182	.2	86	298	9.3	9.0		1.1		1.6	1	2
6010.0	6018.0	C	6.7	115	.2	85	293	9.3	9.0	.5	1.1			1	4
6012.0	6020.0	A	11.7	157	.3	82	288	9.3	9.0	.2	1.3	1.4		1	0
6014.0	6022.0	A	8.7	133	.4	80	285	9.3	9.1	.8	1.3	.6		1	0
6016.0	6024.0	A	2.0	128	.4	76	283	9.3	9.1	1.0	.3	.1		1	0
6018.0	6026.0	D	4.0	281	.4	73	281	9.3	9.1	.1	-.6	.0		1	0
6020.0	6028.0	D	.2	46	.4	67	279	9.3	9.1	.2	.1	-.1		1	0
6022.0	6030.0	D	4.3	98	.4	62	277	9.3	9.1	1.0	.8	.0		1	0
6024.0	6032.0	A	4.9	269	.4	58	276	9.3	9.1	-.6	-.7	.0		1	0
6026.0	6034.0	A	1.0	228	.4	56	273	9.3	9.0	-.2	-.1	.1		1	0
6028.0	6036.0	A	3.7	262	.5	57	270	9.3	9.0	-.6	-.5	.0		1	0
6030.0	6038.0	A	3.8	253	.5	57	266	9.2	9.0	-.6	-.5	.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED.#2-20 SAN JUAN,UTAH8X3X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6032.0	6040.0	A	4.7	245	.6	57	262	9.2	9.0	-.5	-.6	.2		1	0
6034.0	6042.0	A	6.6	241	.6	56	259	9.2	9.0	-.7	-.9	.3		1	0
6036.0	6044.0	A	7.0	234	.6	55	257	9.2	8.9	-.4	-1.0	.4		1	0
6038.0	6046.0	A	3.9	245	.7	57	254	9.2	9.0	-.2	-.5	.1		1	0
6040.0	6048.0	A	2.1	251	.7	59	253	9.3	9.0	-.1	-.2	.0		1	0
6042.0	6050.0	A	3.6	241	.7	59	252	9.3	9.0	-.3	-.5	.1		1	0
6044.0	6052.0	A	3.6	239	.7	57	251	9.3	9.0	-.2	-.5	.1		1	0
6046.0	6054.0	A	15.5	199	.7	57	250	9.3	9.0	-1.7	-1.5	1.9		1	0
6048.0	6056.0	B	18.9	198	.8	56	249	9.3	9.1		-1.9		.3	1	2
6050.0	6058.0	A	2.6	199	.8	54	248	9.3	9.1	-.2	-.2	.3		1	0
6052.0	6060.0	A	2.0	208	.8	52	246	9.3	9.1	.0	-.1	.2		1	0
6054.0	6062.0	A	2.4	205	.9	50	245	9.3	9.1	-.2	-.2	.2		1	0
6056.0	6064.0	A	2.6	216	.9	50	245	9.3	9.1	-.2	-.2	.2		1	0
6058.0	6066.0	A	4.4	229	.8	50	247	9.4	9.0	-.4	-.6	.2		1	0
6060.0	6068.0	A	4.8	233	.8	51	249	9.4	9.0	-.4	-.6	.2		1	0
6062.0	6070.0	B	9.3	230	.8	52	251	9.4	9.0	-.1	-1.3	.5		1	0
6064.0	6072.0	A	7.2	226	.8	53	252	9.3	8.9	-.5	-.9	.5		1	0
6066.0	6074.0	A	8.0	227	.7	53	253	9.2	8.9	-.5	-1.0	.5		1	0
6068.0	6076.0	A	7.8	224	.8	53	253	9.1	8.9	-.4	-1.0	.5		1	0
6070.0	6078.0	A	5.8	228	.8	55	254	9.1	8.9	-.7	-.7	.3		1	0
6072.0	6080.0	A	9.6	235	.8	57	254	9.2	8.9	-1.2	-1.3	.4		1	0
6074.0	6082.0	A	9.5	234	.8	60	253	9.2	8.9	-1.2	-1.3	.5		1	0
6076.0	6084.0	A	7.4	234	.8	58	253	9.3	9.0	-.7	-1.0	.3		1	0
6078.0	6086.0	A	8.0	235	.8	58	252	9.3	9.0	-.7	-1.1	.3		1	0
6080.0	6088.0	A	5.3	251	.9	58	252	9.3	9.0	-.1	-.7	.0		1	0
6082.0	6090.0	A	2.3	237	.9	57	251	9.3	9.0	.4	-.2	.1		1	0
6084.0	6092.0	C	4.5	330	.9	54	249	9.3	9.0	.3	.0	-.7		1	0
6086.0	6094.0	A	11.4	22	.9	52	247	9.3	8.9	1.0	1.5	-1.3		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED.#2-20 SAN JUAN,UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5750.0	5758.0	D	1.2	345	1.0	345	81	9.8	9.5	-.2	.0	.4		1	0
5752.0	5760.0	D	.7	37	1.0	343	78	9.8	9.5	-.3	-.1	.2		1	0
5754.0	5762.0	D	1.1	108	1.0	341	75	9.8	9.5	-.1	-.1	.1		1	0
5756.0	5764.0	D	2.1	95	1.0	340	72	9.8	9.5	-.1	-.3	.0		1	0
5758.0	5766.0	C	2.7	98	1.0	338	69	9.8	9.5	.0	-.4	-.1		1	0
5760.0	5768.0	B	2.6	94	.9	337	66	9.9	9.6	.0	-.4	-.1		1	0
5762.0	5770.0	A	.8	130	.9	337	63	9.9	9.6	.0	-.1	.0		1	0
5768.0	5776.0	A	.5	173	.8	337	53	10.0	9.7	.0	.0	.1		1	0
5770.0	5778.0	A	1.3	110	.8	339	49	10.1	9.7	.2	-.2	-.1		1	0
5772.0	5780.0	A	2.2	97	.7	341	46	10.1	9.7	.1	-.3	-.2		1	0
5774.0	5782.0	A	2.8	88	.7	342	44	10.0	9.7	.1	-.4	-.2		1	0
5776.0	5784.0	A	2.9	84	.7	342	42	10.0	9.7	.1	-.4	-.2		1	0
5778.0	5786.0	A	2.8	117	.7	340	40	9.9	9.7	.1	-.2	-.4		1	0
5780.0	5788.0	A	2.9	127	.7	338	37	9.8	9.6	.1	-.1	-.4		1	0
5782.0	5790.0	A	2.8	126	.6	336	35	9.8	9.6	.1	.0	-.4		1	0
5784.0	5792.0	B	6.2	123	.6	335	33	9.8	9.5	-.1	-.1	-1.0		1	0
5786.0	5794.0	A	4.6	34	.6	334	33	9.7	9.5	-.3	-.8	.1		1	0
5788.0	5796.0	A	2.2	106	.6	333	33	9.6	9.4	.0	-.2	-.3		1	0
5790.0	5798.0	A	2.2	107	.6	332	34	9.6	9.3	.0	-.2	-.3		1	0
5792.0	5800.0	A	3.7	105	.7	331	36	9.5	9.3	.0	-.3	-.5		1	0
5794.0	5802.0	A	5.4	90	.7	329	37	9.4	9.2	.0	-.6	-.6		1	0
5796.0	5804.0	B	10.7	353	.7	327	38	9.3	9.1	-1.3			.0	1	3
5798.0	5806.0	C	7.2	354	.7	326	39	9.2	9.0	-.9			.0	1	3
5800.0	5808.0	B	8.0	112	.7	324	41	9.2	8.9	.0	-.4	-1.1		1	0
5802.0	5810.0	B	7.5	133	.8	323	43	9.1	8.8	.0	.0	-1.1		1	0
5804.0	5812.0	A	6.9	113	.8	324	46	9.1	8.8	.7	-.4	-.9		1	0
5806.0	5814.0	A	6.6	101	.8	325	47	9.1	8.8	.3	-.6	-.7		1	0
5808.0	5816.0	B	2.8	87	.8	328	48	9.2	8.9	-1.1	-.4	-.1		1	0
5810.0	5818.0	C	3.3	103	.8	328	49	9.2	8.9	-.2	-.3	-.3		1	0
5812.0	5820.0	C	8.5	121	.8	326	48	9.2	8.9	.3	-.4	-1.2		1	0
5814.0	5822.0	B	7.5	133	.8	323	46	9.2	8.8	.8	-.1	-1.0		1	0
5816.0	5824.0	B	9.3	152	.7	318	45	9.1	8.7	.9	.4	-1.3		1	0
5818.0	5826.0	C	8.1	160	.7	318	45	9.0	8.7	.8	.5	-1.0		1	0
5820.0	5828.0	B	3.5	155	.8	318	45	9.0	8.7	.4	.2	-.4		1	0
5822.0	5830.0	B	5.5	154	.8	318	44	9.0	8.7	.2	.3	-.7		1	0
5824.0	5832.0	A	6.9	94	.8	316	41	9.0	8.8	.1	-.7	-.7		1	0
5826.0	5834.0	C	4.0	96	.8	314	38	9.0	8.8		-.3		-.4	1	2
5830.0	5838.0	C	12.9	87	.8	313	39	9.0	8.8		-1.4		-1.4	1	2
5832.0	5840.0	C	19.7	130	.8	315	43	9.1	8.8		-.2		-1.6	1	2
5834.0	5842.0	A	9.3	76	.8	317	47	9.1	8.8	.2	-1.3	-.6		1	0
5836.0	5844.0	A	6.0	115	.8	317	51	9.1	8.8	.0	-.4	-.7		1	0
5838.0	5846.0	A	6.8	128	.8	317	54	9.0	8.8	.2	-.3	-.9		1	0
5840.0	5848.0	A	4.4	130	.8	316	56	9.0	8.7	.3	-.2	-.5		1	0
5842.0	5850.0	C	2.3	223	.8	314	55	9.0	8.8	.7	.4	.1		1	0
5844.0	5852.0	C	13.7	144	.8	312	53	9.0	8.8	1.0	.1			1	4
5846.0	5854.0	C	5.9	129	.8	311	49	9.0	8.8	.3	-.1			1	4
5848.0	5856.0	C	8.0	127	.8	309	47	9.0	8.8	.4	-.2			1	4
5850.0	5858.0	B	9.7	319	.8	310	48	9.0	8.8		.0		.8	1	2
5852.0	5860.0	B	6.2	237	.8	312	50	9.0	8.8	.9	1.0	.2		1	0
5854.0	5862.0	B	7.8	250	.8	313	51	9.0	8.8	1.3	1.2	.5		1	0
5856.0	5864.0	B	5.3	242	.8	314	51	9.0	8.8	.2	.8	.3		1	0
5866.0	5874.0	D	13.4	271	.8	313	46	9.0	8.7	.0			1.6	1	3
5870.0	5878.0	B	13.7	244	.8	312	45	9.0	8.8	.6			1.5	1	3
5872.0	5880.0	B	11.7	269	.8	314	51	9.0	8.7	.1			1.4	1	3
5874.0	5882.0	C	12.1	331	.8	319	57	8.9	8.7		-.1		.9	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED.#2-20 SAN JUAN,UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5876.0	5884.0	D	6.0	204	.8	325	67	8.9	8.7	1.2	.7	-.5		1	0
5878.0	5886.0	D	8.7	195	.9	328	72	8.9	8.7	1.1	.8	-1.0		1	0
5880.0	5888.0	D	6.7	294	.9	327	72	8.9	8.8		.8		.8	1	2
5882.0	5890.0	D	7.1	279	.9	324	72	8.9	8.8		1.0		.8	1	2
5888.0	5896.0	A	7.5	183	.9	323	65	9.1	8.8	.4	.6	-.9		1	0
5890.0	5898.0	A	2.9	194	.9	322	66	9.1	8.9	.3	.3	-.2		1	0
5892.0	5900.0	A	3.3	177	.9	322	67	9.2	8.9	.3	.2	-.3		1	0
5894.0	5902.0	A	3.1	179	.9	321	68	9.2	9.0	.3	.2	-.3		1	0
5896.0	5904.0	A	2.6	337	.9	321	68	9.3	9.1	-.2	.0	.5		1	0
5898.0	5906.0	A	10.2	214	.9	321	65	9.3	9.1	1.6	1.5	-.7		1	0
5902.0	5910.0	B	13.5	199	.9	318	59	9.2	9.1	1.5			.2	1	3
5904.0	5912.0	A	11.1	201	.9	317	57	9.2	9.0	1.0	1.5	-.9		1	0
5906.0	5914.0	A	11.8	194	.8	314	54	9.1	8.9	1.1	1.5	-1.1		1	0
5908.0	5916.0	A	11.0	191	.8	311	51	9.1	8.9	.9	1.4	-1.0		1	0
5910.0	5918.0	A	12.3	198	.8	311	49	9.1	8.8	1.1	1.7	-.9		1	0
5912.0	5920.0	A	12.2	187	.8	312	48	9.1	8.8	1.2	1.5	-1.1		1	0
5914.0	5922.0	A	9.7	188	.8	314	51	9.1	8.8	1.1	1.2	-.9		1	0
5916.0	5924.0	A	7.0	168	.8	316	53	9.2	8.9	.9	.5	-.9		1	0
5918.0	5926.0	A	2.8	118	.8	317	52	9.3	8.9	.4	-.2	-.3		1	0
5920.0	5928.0	A	4.3	134	.8	316	48	9.3	8.9	1.0	.0	-.6		1	0
5922.0	5930.0	A	4.1	194	.7	312	40	9.2	8.9	.7	.6	-.2		1	0
5924.0	5932.0	A	5.2	176	.6	302	16	9.2	8.9	.8	.8	-.2		1	0
5926.0	5934.0	A	7.7	174	.5	297	4	9.3	9.0	.6	1.2	-.2		1	0
5928.0	5936.0	A	7.7	170	.4	295	1	9.5	9.0	.5	1.2	-.2		1	0
5930.0	5938.0	A	6.2	95	.4	294	0	9.5	9.0	.6	.1	-.9		1	0
5932.0	5940.0	D	12.6	43	.4	295	359	9.4	9.0	-.1			-1.4	1	3
5936.0	5944.0	D	13.9	38	.3	316	355	9.3	9.1	-.1	-1.7			1	4
5938.0	5946.0	C	16.9	287	.3	4	353	9.3	9.1	-1.9	-1.2			1	4
5940.0	5948.0	C	17.9	282	.2	74	350	9.2	8.9	-1.9	-1.1			1	4
5942.0	5950.0	D	20.6	282	.2	74	345	9.1	8.8		-1.6		.7	1	2
5944.0	5952.0	D	21.3	251	.2	74	341	9.1	8.8	-1.7			1.7	1	3
5958.0	5966.0	D	4.9	183	.1	74	322	9.1	8.9	.1			.5	1	3
5962.0	5970.0	C	22.8	52	.1	74	311	9.1	9.1		.8		-1.5	1	2
5964.0	5972.0	B	22.3	49	.1	74	309	9.2	8.9		.6		-1.5	1	2
5966.0	5974.0	B	19.2	48	.1	74	310	9.3	8.9		.5		-1.3	1	2
5968.0	5976.0	B	19.0	51	.1	74	313	9.3	8.9		.5		-1.3	1	2
5970.0	5978.0	B	18.6	55	.1	74	317	9.3	9.0		.5		-1.3	1	2
5972.0	5980.0	B	14.1	54	.1	74	320	9.3	9.1		.2		-1.1	1	2
5974.0	5982.0	B	2.0	43	.1	74	323	9.4	9.1	.0	-.1	-.3		1	0
5976.0	5984.0	A	2.7	347	.0	74	325	9.4	9.1	.0	-.4	-.2		1	0
5978.0	5986.0	A	1.8	355	.1	74	327	9.4	9.1	-.1	-.3	-.1		1	0
5980.0	5988.0	A	2.3	347	.1	74	328	9.5	9.1	-.2	-.4	-.1		1	0
5982.0	5990.0	A	2.2	275	.1	74	329	9.5	9.1	-.2	-.2	.3		1	0
5984.0	5992.0	A	2.9	267	.1	74	329	9.5	9.1	-.3	-.2	.4		1	0
5986.0	5994.0	A	1.9	269	.1	74	329	9.5	9.2	-.2	-.1	.2		1	0
5988.0	5996.0	A	2.1	263	.1	74	329	9.5	9.2	-.2	-.1	.3		1	0
5990.0	5998.0	A	2.8	241	.1	74	328	9.5	9.2	-.2	.0	.4		1	0
5992.0	6000.0	A	2.5	238	.1	74	326	9.4	9.1	-.2	.0	.4		1	0
5994.0	6002.0	B	11.3	272	.1	74	323	9.4	9.1	-1.0	-1.2	1.4		1	0
5996.0	6004.0	A	10.1	273	.0	74	319	9.3	9.0	-1.0	-1.1	1.2		1	0
5998.0	6006.0	A	6.7	271	.1	74	314	9.3	9.0	-.7	-.8	.7		1	0
6000.0	6008.0	A	6.2	251	.1	74	308	9.2	9.0	-.5	-.5	.8		1	0
6002.0	6010.0	B	3.3	232	.2	74	302	9.2	9.0	-.3	-.2	.5		1	0
6004.0	6012.0	C	9.8	198	.2	74	297	9.2	9.0	-.2	.3	1.5		1	0
6006.0	6014.0	B	11.8	170	.3	74	293	9.2	9.0		1.1		1.3	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED.#2-20 SAN JUAN,UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6008.0	6016.0	B	13.5	156	.3	74	289	9.2	9.0		1.5		1.5	1	2
6010.0	6018.0	B	12.2	156	.3	72	285	9.2	9.0		1.3		1.4	1	2
6012.0	6020.0	A	9.6	163	.4	69	282	9.3	9.0	.0	.8	1.3		1	0
6014.0	6022.0	A	3.0	161	.4	70	279	9.3	9.1	.7	.3	.4		1	0
6016.0	6024.0	A	1.4	175	.5	71	277	9.3	9.1	.7	.1	.2		1	0
6020.0	6028.0	D	22.2	351	.5	62	273	9.3	9.1	1.5	-.7			1	4
6022.0	6030.0	D	14.3	163	.5	56	270	9.3	9.1		.8		1.5	1	2
6024.0	6032.0	A	2.0	223	.5	55	267	9.3	9.1	-.4	-.2	.2		1	0
6026.0	6034.0	A	1.2	232	.5	55	264	9.3	9.0	-.3	-.1	.1		1	0
6028.0	6036.0	A	1.8	238	.6	54	261	9.2	9.0	-.4	-.2	.1		1	0
6030.0	6038.0	A	2.7	243	.6	53	258	9.2	9.0	-.4	-.3	.1		1	0
6032.0	6040.0	A	3.9	245	.7	51	256	9.2	9.0	-.4	-.5	.1		1	0
6034.0	6042.0	A	9.2	237	.7	51	254	9.2	8.9	-.5	-1.3	.4		1	0
6036.0	6044.0	A	4.2	241	.7	51	253	9.2	8.9	-.3	-.6	.1		1	0
6038.0	6046.0	A	2.1	242	.7	54	252	9.2	9.0	-.1	-.2	.0		1	0
6040.0	6048.0	A	3.6	237	.7	55	251	9.3	9.0	-.3	-.5	.1		1	0
6042.0	6050.0	A	3.6	236	.8	56	250	9.3	9.0	-.2	-.4	.1		1	0
6044.0	6052.0	A	13.1	189	.8	55	249	9.3	9.0	-1.1	-.9	1.8		1	0
6046.0	6054.0	B	17.7	199	.8	55	248	9.3	9.0	-2.0			.2	1	3
6048.0	6056.0	A	2.4	190	.8	54	247	9.3	9.1	-.1	-.1	.3		1	0
6050.0	6058.0	A	1.9	193	.9	53	245	9.3	9.1	.0	-.1	.2		1	0
6052.0	6060.0	A	2.0	208	.9	50	244	9.3	9.1	.0	-.1	.2		1	0
6054.0	6062.0	A	2.6	216	.9	47	245	9.3	9.1	-.1	-.2	.2		1	0
6056.0	6064.0	A	4.2	231	.9	46	246	9.3	9.0	-.3	-.5	.1		1	0
6058.0	6066.0	A	4.0	232	.8	46	248	9.4	9.0	-.3	-.5	.1		1	0
6060.0	6068.0	A	4.5	234	.8	47	250	9.4	9.0	-.4	-.6	.1		1	0
6062.0	6070.0	B	8.5	245	.8	47	251	9.3	9.0	-.2	-1.3	.1		1	0
6064.0	6072.0	A	7.8	235	.8	49	252	9.2	8.9	-.4	-1.1	.3		1	0
6066.0	6074.0	A	8.2	233	.7	51	253	9.1	8.9	-.5	-1.1	.4		1	0
6068.0	6076.0	A	7.6	239	.8	52	253	9.1	8.9	-.5	-1.1	.2		1	0
6070.0	6078.0	A	6.2	236	.8	55	253	9.1	8.9	-.8	-.8	.3		1	0
6074.0	6082.0	B	13.3	225	.8	60	254	9.2	8.9	-1.4			-.4	1	3
6076.0	6084.0	A	7.7	232	.8	58	253	9.2	9.0	-.7	-1.0	.4		1	0
6078.0	6086.0	A	8.9	234	.8	56	253	9.2	9.0	-.8	-1.2	.4		1	0
6080.0	6088.0	A	6.4	247	.8	56	252	9.2	9.0	-.2	-.9	.0		1	0
6082.0	6090.0	A	2.5	241	.9	55	251	9.3	9.0	.3	-.3	.0		1	0
6084.0	6092.0	C	1.6	2	.9	53	249	9.3	9.0	.3	.2			1	4
6086.0	6094.0	A	4.0	310	.9	52	247	9.3	9.0	.6	-.2	-.6		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED.#2-20 SAN JUAN,UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5729.0	5737.0	D	4.3	164	1.2	357	106	9.7	9.4	.1	-.3	-.4		1	0
5731.0	5739.0	C	2.1	154	1.2	356	104	9.7	9.4	.1	-.2	-.1		1	0
5733.0	5741.0	C	2.5	158	1.1	355	101	9.7	9.4	.0	-.2	-.2		1	0
5735.0	5743.0	A	.9	156	1.1	354	99	9.7	9.4	.0	.0	.1		1	0
5737.0	5745.0	A	.9	161	1.1	353	97	9.7	9.4	.0	.0	.1		1	0
5739.0	5747.0	A	1.4	164	1.1	351	95	9.7	9.4	.1	.0	.0		1	0
5741.0	5749.0	C	.5	86	1.1	350	92	9.7	9.4	-.1	-.1	.2		1	0
5743.0	5751.0	C	.4	16	1.1	349	90	9.7	9.4	-.1	.0	.2		1	0
5745.0	5753.0	D	.8	353	1.1	348	87	9.7	9.4	-.1	.0	.3		1	0
5747.0	5755.0	D	1.2	345	1.1	347	84	9.7	9.4	-.3	.1	.4		1	0
5749.0	5757.0	D	.6	349	1.0	346	82	9.8	9.5	-.3	.0	.3		1	0
5751.0	5759.0	D	1.2	5	1.0	345	79	9.8	9.5	-.3	.0	.4		1	0
5753.0	5761.0	D	.3	70	1.0	344	77	9.8	9.5	-.2	.0	.2		1	0
5755.0	5763.0	D	1.2	109	1.0	342	74	9.8	9.5	-.1	-.2	.1		1	0
5757.0	5765.0	D	2.2	98	.9	342	70	9.8	9.5	-.1	-.3	.0		1	0
5759.0	5767.0	B	2.3	100	.9	341	67	9.8	9.5	.0	-.3	-.1		1	0
5761.0	5769.0	A	2.0	82	.9	340	64	9.9	9.6	.0	-.3	.0		1	0
5763.0	5771.0	A	1.0	83	.8	341	61	9.9	9.6	.0	-.2	.1		1	0
5765.0	5773.0	A	1.9	260	.8	340	58	9.9	9.7	.1	.3	.3		1	0
5767.0	5775.0	A	1.8	238	.8	340	54	10.0	9.7	.1	.3	.1		1	0
5769.0	5777.0	A	3.0	244	.7	341	51	10.0	9.7	.2	.5	.2		1	0
5771.0	5779.0	A	.3	122	.7	342	47	10.1	9.7	.1	-.1	.1		1	0
5773.0	5781.0	A	2.5	95	.7	343	45	10.1	9.7	.2	-.3	-.2		1	0
5775.0	5783.0	A	2.4	89	.7	344	42	10.0	9.7	.1	-.3	-.2		1	0
5777.0	5785.0	A	3.2	88	.7	344	40	10.0	9.7	.0	-.4	-.3		1	0
5779.0	5787.0	A	2.3	107	.7	343	38	9.9	9.6	.0	-.2	-.3		1	0
5781.0	5789.0	A	1.7	126	.6	341	36	9.8	9.6	.1	-.1	-.2		1	0
5783.0	5791.0	A	1.0	152	.6	340	34	9.8	9.6	.0	.0	-.1		1	0
5785.0	5793.0	B	5.8	127	.6	339	34	9.8	9.5	-.3	.0	-.9		1	0
5787.0	5795.0	A	4.1	12	.6	336	34	9.7	9.5	-.4	-.7	.4		1	0
5789.0	5797.0	A	2.1	103	.6	335	36	9.6	9.4	-.1	-.2	-.2		1	0
5791.0	5799.0	A	3.3	102	.6	334	37	9.5	9.3	-.1	-.3	-.4		1	0
5793.0	5801.0	A	3.4	104	.7	332	38	9.5	9.2	-.1	-.3	-.4		1	0
5795.0	5803.0	A	8.4	60	.7	331	39	9.4	9.1	-.5	-1.3	-.4		1	0
5797.0	5805.0	B	11.3	327	.7	330	39	9.3	9.0	-1.2			.6	1	3
5799.0	5807.0	A	6.6	106	.7	329	41	9.2	8.9	-.2	-.5	-.8		1	0
5801.0	5809.0	B	7.1	92	.7	328	42	9.1	8.8	-.4	-.8	-.7		1	0
5803.0	5811.0	B	5.9	117	.8	328	44	9.0	8.8	.0	-.3	-.7		1	0
5805.0	5813.0	A	6.4	80	.8	327	46	9.0	8.8	.1	-.9	-.4		1	0
5807.0	5815.0	A	4.7	28	.8	328	47	9.1	8.9	-1.0	-.7	.4		1	0
5809.0	5817.0	B	5.2	97	.8	328	48	9.2	8.9	-.4	-.6	-.5		1	0
5811.0	5819.0	C	6.1	112	.8	328	47	9.2	8.9	.1	-.4	-.7		1	0
5813.0	5821.0	B	6.9	127	.7	327	45	9.2	8.8	.7	-.2	-.9		1	0
5815.0	5823.0	B	7.7	147	.7	323	45	9.1	8.7	.8	.2	-1.0		1	0
5817.0	5825.0	C	7.5	153	.7	322	46	9.0	8.6	.7	.3	-1.0		1	0
5819.0	5827.0	B	4.9	173	.7	322	46	9.0	8.6	.5	.5	-.5		1	0
5821.0	5829.0	B	7.9	99	.7	320	45	9.0	8.7	.1			-.8	1	3
5823.0	5831.0	A	7.7	86	.7	319	42	9.0	8.7	-.2	-.9	-.7		1	0
5825.0	5833.0	B	13.0	146	.7	318	39	9.0	8.7		.6		-.6	1	2
5829.0	5837.0	C	13.3	356	.7	318	38	9.0	8.8		-1.6		.0	1	2
5831.0	5839.0	C	14.0	138	.7	319	41	9.0	8.8		.3		-.9	1	2
5833.0	5841.0	A	10.1	73	.7	321	45	9.0	8.8	.2	-1.4	-.6		1	0
5835.0	5843.0	A	7.6	131	.8	321	48	9.0	8.7	.1	-.2	-1.0		1	0
5837.0	5845.0	A	6.4	131	.8	322	52	9.0	8.7	.3	-.2	-.8		1	0
5839.0	5847.0	B	5.4	126	.8	322	54	9.0	8.7	.4	-.3	-.6		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED.#2-20 SAN JUAN,UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5841.0	5849.0	B	2.9	123	.8	321	55	8.9	8.7	.6	-.2	-.3		1	0
5843.0	5851.0	C	13.3	246	.8	319	53	8.9	8.7	.7			1.3	1	3
5845.0	5853.0	B	7.1	347	.8	318	50	9.0	8.8	.1	-.5	1.1		1	0
5847.0	5855.0	B	8.8	339	.7	316	48	9.0	8.8	.0	-.5	1.4		1	0
5849.0	5857.0	A	5.2	352	.8	316	48	9.0	8.8	.0	-.5	.8		1	0
5851.0	5859.0	B	5.2	299	.8	318	50	9.0	8.7	.1	.3	.9		1	0
5853.0	5861.0	B	8.5	273	.8	318	51	8.9	8.7	.2	1.0	1.0		1	0
5855.0	5863.0	B	6.1	257	.8	319	52	8.9	8.7	-.3	.9	.5		1	0
5865.0	5873.0	C	13.2	265	.8	314	47	9.0	8.7	.1			1.5	1	3
5869.0	5877.0	B	12.2	247	.7	312	43	9.0	8.8	.4			1.3	1	3
5871.0	5879.0	B	15.0	244	.7	310	40	9.0	8.7	.6			1.6	1	3
5873.0	5881.0	B	11.1	241	.7	308	36	9.0	8.7	.4			1.2	1	3
5875.0	5883.0	C	6.8	178	.6	302	24	9.0	8.6	.4	.9	-.4		1	0
5879.0	5887.0	D	4.2	123	.3	269	347	9.0	8.6	-.4	.5	-.4		1	0
5881.0	5889.0	D	20.6	242	.3	258	339	9.1	8.6	-1.5	.4			1	4
5883.0	5891.0	D	17.5	275	.2	254	334	9.0	8.7		-1.5		.5	1	2
5885.0	5893.0	D	25.7	254	.2	254	329	9.0	8.7		-1.1		1.5	1	2
5889.0	5897.0	A	16.8	164	.2	253	331	9.2	8.9	.9	2.7	.6		1	0
5891.0	5899.0	A	9.3	168	.3	322	335	9.3	9.0	.6	1.4	.3		1	0
5893.0	5901.0	A	8.7	167	.3	7	335	9.4	9.0	.6	1.4	.3		1	0
5895.0	5903.0	A	6.7	169	.2	54	332	9.4	9.0	.5	1.1	.3		1	0
5897.0	5905.0	A	7.1	192	.2	54	329	9.4	9.0	.0	.9	.7		1	0
5903.0	5911.0	B	12.4	187	.2	54	322	9.2	8.9	.0			1.4	1	3
5905.0	5913.0	A	13.4	189	.1	54	319	9.1	8.8	.2	1.4	1.6		1	0
5907.0	5915.0	A	13.5	182	.1	54	311	9.0	8.8	.1	1.4	1.6		1	0
5909.0	5917.0	B	13.1	166	.1	54	305	9.0	8.7	.1			1.5	1	3
5911.0	5919.0	B	14.9	177	.1	54	306	9.0	8.8	-.1	1.5			1	4
5913.0	5921.0	B	19.4	193	.1	54	313	9.0	8.9	-.5	1.6			1	4
5915.0	5923.0	A	11.8	185	.1	54	318	9.1	9.0	-.3	1.3	1.4		1	0
5917.0	5925.0	A	2.8	88	.1	54	320	9.1	9.1	-.5	.3	-.4		1	0
5919.0	5927.0	B	5.0	144	.1	54	314	9.1	9.0	.3			.5	1	3
5921.0	5929.0	A	8.9	140	.1	54	303	9.1	8.9	-.2	1.4	.4		1	0
5923.0	5931.0	A	10.6	135	.2	52	288	9.1	8.9	-.3	1.5	.7		1	0
5925.0	5933.0	A	13.0	134	.3	48	274	9.2	8.9	-.3	1.7	1.3		1	0
5927.0	5935.0	B	16.2	151	.4	41	264	9.2	9.1	-.6	1.1			1	4
5929.0	5937.0	A	10.7	110	.4	37	260	9.3	9.2	-.4	1.6	.8		1	0
5931.0	5939.0	D	14.3	34	.4	36	258	9.3	9.3	1.7			.0	1	3
5943.0	5951.0	D	14.6	242	.6	34	240	9.0	8.8	-1.1			-1.2	1	3
5955.0	5963.0	D	6.5	189	.7	27	225	9.0	8.8	-.6			-.1	1	3
5973.0	5981.0	B	8.9	14	1.1	17	186	9.5	9.1	.7			.9	1	3
5975.0	5983.0	A	5.8	2	1.1	14	181	9.5	9.1	.3	1.2	.0		1	0
5977.0	5985.0	A	1.1	210	1.2	10	175	9.5	9.1	.0	.0	-.1		1	0
5983.0	5991.0	A	1.7	198	1.2	7	165	9.5	9.2	.0	.0	-.1		1	0
5987.0	5995.0	A	1.6	262	1.3	6	162	9.5	9.2	.2	.2	-.2		1	0
5989.0	5997.0	A	1.1	242	1.3	6	161	9.5	9.2	.2	.2	-.1		1	0
5991.0	5999.0	A	3.2	231	1.3	5	161	9.5	9.2	.0	.0	-.4		1	0
5993.0	6001.0	A	6.1	219	1.3	5	160	9.4	9.2	-.1	-.3	-.8		1	0
5995.0	6003.0	A	8.8	273	1.3	4	159	9.4	9.1	1.1	.8	-1.2		1	0
5997.0	6005.0	A	8.8	274	1.2	3	159	9.3	9.1	1.1	.8	-1.2		1	0
5999.0	6007.0	A	5.7	255	1.3	2	158	9.3	9.0	.4	.3	-.8		1	0
6001.0	6009.0	A	5.1	241	1.3	2	158	9.3	9.0	.4	.1	-.7		1	0
6003.0	6011.0	C	3.7	107	1.3	2	157	9.3	9.0	-.4			.2	1	3
6005.0	6013.0	B	8.0	209	1.3	2	156	9.3	9.0	-.6	-.6	-.9		1	0
6007.0	6015.0	C	13.9	144	1.3	2	156	9.3	9.0	-1.3			-.8	1	3
6009.0	6017.0	C	19.0	154	1.3	3	156	9.3	9.0	-1.6			-1.4	1	3

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED.#2-20 SAN JUAN,UTAH8X2X10

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6011.0	6019.0	B	17.2	156	1.3	3	156	9.3	9.0	-1.4			-1.3	1	3
6013.0	6021.0	A	10.3	159	1.3	3	155	9.4	9.0	-1.3	-1.5	.0		1	0
6015.0	6023.0	A	7.3	161	1.3	3	154	9.4	9.1	-1.1	-1.0	.0		1	0
6017.0	6025.0	A	6.4	151	1.3	3	153	9.4	9.1	-1.1	-.9	.1		1	0
6019.0	6027.0	D	8.8	84	1.3	3	152	9.4	9.1	-.9			.5	1	3
6021.0	6029.0	D	9.4	166	1.3	2	150	9.3	9.1	-.5			-.8	1	3
6023.0	6031.0	C	3.8	76	1.4	1	148	9.3	9.1	.0	.0	.7		1	0
6025.0	6033.0	A	3.6	245	1.4	0	145	9.3	9.0	.7	.3	-.4		1	0
6027.0	6035.0	A	5.1	209	1.4	360	142	9.3	9.0	.3	-.1	-.6		1	0
6029.0	6037.0	A	5.6	206	1.3	359	140	9.2	8.9	.3	-.2	-.7		1	0
6031.0	6039.0	A	6.1	223	1.3	358	138	9.2	8.9	.5	.1	-.8		1	0
6033.0	6041.0	A	5.9	228	1.3	358	138	9.3	8.9	.6	.2	-.8		1	0
6035.0	6043.0	A	7.7	250	1.3	358	138	9.3	8.9	1.0	.6	-1.0		1	0
6037.0	6045.0	A	5.4	275	1.3	359	138	9.3	8.9	.5	.8	-.4		1	0
6039.0	6047.0	A	5.1	279	1.2	0	139	9.3	8.9	.4	.8	-.4		1	0
6041.0	6049.0	A	5.4	274	1.2	2	139	9.3	8.9	.5	.8	-.5		1	0
6043.0	6051.0	A	5.4	275	1.2	3	140	9.3	9.0	.5	.8	-.5		1	0
6045.0	6053.0	B	15.9	226	1.3	4	140	9.3	9.0	1.2	-.1			1	4
6047.0	6055.0	B	18.6	221	1.3	5	140	9.3	9.0	1.2	-.3			1	4
6049.0	6057.0	A	4.0	234	1.3	6	140	9.4	9.0	.4	.2	-.5		1	0
6051.0	6059.0	A	4.2	229	1.3	7	140	9.4	9.0	.4	.1	-.5		1	0
6053.0	6061.0	A	3.8	240	1.3	8	140	9.4	9.0	.4	.3	-.4		1	0
6055.0	6063.0	A	4.1	233	1.3	8	141	9.4	9.0	.4	.2	-.5		1	0
6057.0	6065.0	A	3.9	243	1.3	9	142	9.4	9.0	.4	.3	-.4		1	0
6059.0	6067.0	A	4.1	243	1.3	9	143	9.4	9.0	.4	.3	-.5		1	0
6061.0	6069.0	A	5.7	232	1.3	9	144	9.4	9.0	.2	.1	-.8		1	0
6063.0	6071.0	A	6.4	246	1.3	9	145	9.4	9.0	.8	.4	-.9		1	0
6065.0	6073.0	A	8.2	246	1.3	9	145	9.3	8.9	.9	.4	-1.1		1	0
6067.0	6075.0	A	9.2	252	1.3	9	144	9.3	8.9	1.2	.6	-1.2		1	0
6069.0	6077.0	A	7.7	264	1.3	10	144	9.2	8.8	1.2	.8	-.9		1	0
6071.0	6079.0	A	6.7	263	1.3	11	143	9.2	8.8	.5	.7	-.7		1	0
6073.0	6081.0	A	10.8	241	1.3	11	143	9.2	8.9	.4	.4	-1.5		1	0
6075.0	6083.0	A	10.5	242	1.3	12	141	9.3	8.9	.4	.4	-1.5		1	0
6077.0	6085.0	A	8.0	245	1.3	11	140	9.3	8.9	.3	.5	-1.1		1	0
6079.0	6087.0	A	8.6	237	1.3	10	140	9.3	8.9	.2	.3	-1.2		1	0
6081.0	6089.0	A	5.5	257	1.3	10	140	9.4	8.9	.1	.6	-.6		1	0
6083.0	6091.0	A	6.8	230	1.3	11	139	9.3	8.9	-.2	.1	-.9		1	0
6085.0	6093.0	D	13.1	270	1.4	12	140	9.3	8.9	1.5	1.5			1	4

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5749.5	5750.5	C	1.0	256	.7	61	251	9.8	9.5	.2	.0	.0		1	0
5750.0	5751.0	B	2.9	216	.7	61	250	9.8	9.5	-.1	-.3	.3		1	0
5750.5	5751.5	B	3.4	244	.7	61	249	9.8	9.5	-.1	-.5	.0		1	0
5751.0	5752.0	D	8.2	284	.7	60	248	9.8	9.5		-1.0		-.9	1	2
5751.5	5752.5	D	23.3	109	.7	59	248	9.8	9.5		3.3		3.0	1	2
5752.0	5753.0	D	3.6	2	.7	58	246	9.8	9.5	.7	.4	-.6		1	0
5752.5	5753.5	D	2.2	342	.7	57	246	9.8	9.5	.0	.2	-.4		1	0
5753.0	5754.0	B	2.5	335	.7	56	244	9.8	9.5	.1	.1	-.4		1	0
5753.5	5754.5	C	2.1	344	.7	56	244	9.8	9.5	.2	.2	-.4		1	0
5754.0	5755.0	D	1.2	327	.7	56	243	9.8	9.5		.1		-.1	1	2
5754.5	5755.5	D	1.4	282	.7	55	242	9.8	9.5	-.4	-.1	-.2		1	0
5755.0	5756.0	C	.6	46	.7	54	241	9.8	9.5	-.1	.2	.0		1	0
5755.5	5756.5	D	1.5	114	.7	54	240	9.8	9.5	-.2	.3	.2		1	0
5756.0	5757.0	C	.6	282	.8	53	239	9.8	9.5	.0	.0	-.1		1	0
5756.5	5757.5	C	.9	347	.8	53	238	9.8	9.5	.0	.2	-.2		1	0
5757.0	5758.0	D	1.8	336	.8	52	238	9.8	9.5	.8	.2	-.3		1	0
5757.5	5758.5	C	12.2	162	.8	51	237	9.8	9.5		-.4		.8	1	2
5758.0	5759.0	C	7.5	33	.8	51	236	9.8	9.5	.9			.4	1	3
5758.5	5759.5	D	2.8	24	.8	50	235	9.8	9.5	.5	.6	-.2		1	0
5759.0	5760.0	C	1.4	235	.8	50	234	9.8	9.5	.4	-.1	.0		1	0
5759.5	5760.5	D	7.1	286	.8	49	233	9.8	9.5	.2	-.6			1	4
5760.0	5761.0	D	11.0	277	.8	49	232	9.8	9.5	.0	-1.2			1	4
5760.5	5761.5	D	3.0	114	.8	47	231	9.9	9.5	.1	.4	.4		1	0
5761.0	5762.0	C	4.4	118	.8	47	231	9.9	9.5	-.1	.4	.7		1	0
5761.5	5762.5	D	17.6	190	.8	46	229	9.9	9.5	-2.1			-.2	1	3
5762.0	5763.0	D	38.0	324	.8	46	229	9.9	9.6		.9		-3.3	1	2
5762.5	5763.5	C	5.1	87	.8	45	227	9.9	9.6	.0	.5	.5		1	0
5763.0	5764.0	C	5.9	80	.9	45	227	9.9	9.6	.2	.7	.4		1	0
5763.5	5764.5	B	4.2	62	.9	45	225	9.9	9.6	.4	.8	.2		1	0
5764.0	5765.0	C	3.9	43	.9	42	225	9.9	9.6	.3	.8	.0		1	0
5764.5	5765.5	B	2.7	51	.9	41	224	9.9	9.6	.4	.6	.1		1	0
5765.0	5766.0	D	1.3	162	.9	41	223	9.9	9.6	.1	.0	.2		1	0
5765.5	5766.5	C	14.7	313	.9	41	222	10.0	9.6	1.4	.2			1	4
5766.0	5767.0	B	28.0	355	.9	41	222	10.0	9.6	3.8	3.8			1	4
5766.5	5767.5	A	8.9	75	.9	40	220	10.0	9.6	.4	1.4	.9		1	0
5767.0	5768.0	B	2.3	64	.9	39	220	10.0	9.7	.2	.5	.2		1	0
5768.0	5769.0	D	6.0	137	.9	37	218	10.0	9.7	.0	.0	1.0		1	0
5768.5	5769.5	B	1.1	351	.9	37	217	10.0	9.7	.4	.3	-.1		1	0
5769.0	5770.0	A	1.1	125	.9	37	217	10.0	9.7	.1	.2	.2		1	0
5769.5	5770.5	A	1.1	220	.9	36	216	10.0	9.7	-.1	.0	.0		1	0
5770.0	5771.0	A	.7	267	.9	36	215	10.0	9.7	.3	.1	-.1		1	0
5770.5	5771.5	A	.7	186	.9	36	214	10.1	9.7	.0	.1	.1		1	0
5771.0	5772.0	A	4.8	125	.9	36	213	10.1	9.7	-.3	.1	.8		1	0
5771.5	5772.5	A	1.4	155	.9	36	212	10.1	9.8	.0	.0	.2		1	0
5772.0	5773.0	A	3.1	235	.9	35	211	10.1	9.8	.0	-.3	-.2		1	0
5772.5	5773.5	A	2.7	232	1.0	34	210	10.1	9.8	.0	-.3	-.2		1	0
5773.0	5774.0	D	5.5	214	1.0	34	210	10.1	9.8	-.4	-.8	-.1		1	0
5773.5	5774.5	A	.9	157	1.0	34	208	10.1	9.8	.0	.1	.1		1	0
5774.0	5775.0	A	2.1	145	1.0	33	208	10.1	9.8	-.2	.0	.3		1	0
5774.5	5775.5	A	2.9	152	1.0	32	206	10.1	9.8	-.3	-.1	.4		1	0
5775.0	5776.0	A	3.1	175	1.0	32	206	10.1	9.8	-.4	-.3	.3		1	0
5775.5	5776.5	A	2.4	357	1.0	31	205	10.1	9.8	.5	.6	-.2		1	0
5776.0	5777.0	A	.5	335	1.1	31	204	10.1	9.8	.2	.2	.0		1	0
5776.5	5777.5	B	8.3	216	1.1	31	203	10.1	9.8	-.3	-1.3	-.3		1	0
5777.0	5778.0	A	11.6	206	1.1	31	202	10.1	9.8	-.5	-1.9	-.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5777.5	5778.5	A	2.1	106	1.1	32	202	10.2	9.8	-.1	.2	.4		1	0
5778.0	5779.0	A	2.1	46	1.2	32	201	10.2	9.8	.2	.5	.2		1	0
5778.5	5779.5	A	7.5	22	1.2	32	201	10.1	9.8	.9	1.6	.1		1	0
5779.0	5780.0	A	1.0	59	1.2	31	201	10.1	9.8	.1	.3	.1		1	0
5779.5	5780.5	A	2.1	103	1.1	30	201	10.0	9.8	-.1	.2	.4		1	0
5780.0	5781.0	A	2.0	86	1.1	30	201	10.0	9.7	.1	.3	.3		1	0
5780.5	5781.5	B	4.9	133	1.1	29	200	10.0	9.7	-.4	-.1	.6		1	0
5781.0	5782.0	A	4.3	52	1.1	29	200	10.0	9.7	.4	.8	.4		1	0
5781.5	5782.5	A	1.3	54	1.1	29	199	10.0	9.7	.1	.4	.2		1	0
5782.0	5783.0	A	4.1	131	1.2	30	199	10.0	9.7	-.4	-.1	.7		1	0
5782.5	5783.5	A	3.0	122	1.2	29	198	9.9	9.7	-.1	.1	.5		1	0
5783.0	5784.0	A	2.3	120	1.2	29	197	9.9	9.7	.0	.1	.4		1	0
5783.5	5784.5	A	1.0	171	1.1	28	197	9.9	9.7	.0	.0	.1		1	0
5784.0	5785.0	A	1.0	130	1.1	28	196	9.9	9.6	.0	.1	.2		1	0
5784.5	5785.5	A	1.1	192	1.1	29	196	9.9	9.6	.2	.0	.1		1	0
5785.0	5786.0	C	2.9	175	1.1	29	195	9.9	9.6	.2	-.3	.2		1	0
5785.5	5786.5	C	9.4	62	1.1	29	195	9.9	9.6	.0			1.3	1	3
5786.0	5787.0	B	12.8	44	1.1	28	195	9.9	9.6	.1	2.2	1.1		1	0
5786.5	5787.5	C	13.1	204	1.1	28	194	9.9	9.6		-2.1		-1.2	1	2
5787.0	5788.0	D	25.9	294	1.1	28	194	9.9	9.6	2.8	1.0			1	4
5787.5	5788.5	D	18.5	255	1.1	28	194	9.9	9.6	.7			-2.1	1	3
5788.0	5789.0	D	3.4	201	1.1	28	194	9.9	9.6	.7	-.4	.0		1	0
5788.5	5789.5	D	29.0	170	1.1	27	194	9.8	9.6	-3.5			-1.3	1	3
5789.0	5790.0	D	.5	217	1.1	27	194	9.8	9.6	-.4	.1	.0		1	0
5789.5	5790.5	D	22.1	322	1.1	27	194	9.8	9.6	2.8	2.6			1	4
5790.0	5791.0	D	23.4	308	1.1	27	194	9.8	9.6	2.8			-.9	1	3
5790.5	5791.5	D	17.0	92	1.1	27	194	9.8	9.5	-1.0	.8	2.9		1	0
5791.0	5792.0	D	14.1	90	1.1	27	194	9.8	9.5		.8		1.8	1	2
5791.5	5792.5	D	6.5	159	1.1	26	194	9.8	9.5		-.7		.0	1	2
5792.0	5793.0	D	1.3	213	1.1	26	194	9.7	9.5	.8	.0	.0		1	0
5792.5	5793.5	B	1.5	9	1.1	26	195	9.7	9.4	.5	.4	.0		1	0
5793.0	5794.0	A	2.1	12	1.1	26	195	9.7	9.4	.3	.5	.0		1	0
5793.5	5794.5	A	3.8	354	1.1	25	195	9.7	9.4	.7	.8	-.2		1	0
5794.0	5795.0	A	3.0	352	1.1	25	195	9.6	9.4	.5	.6	-.2		1	0
5794.5	5795.5	A	.6	191	1.1	26	195	9.6	9.4	-.5	.1	.0		1	0
5795.0	5796.0	A	.8	166	1.1	26	196	9.6	9.4	-.1	.1	.1		1	0
5795.5	5796.5	A	2.0	104	1.0	27	196	9.6	9.3	-.1	.2	.4		1	0
5796.0	5797.0	A	1.5	119	1.0	27	196	9.6	9.3	-.2	.1	.3		1	0
5796.5	5797.5	B	7.7	69	1.0	27	196	9.5	9.3	.1	.9	1.0		1	0
5797.0	5798.0	A	4.8	84	1.0	27	196	9.5	9.3	.1	.5	.7		1	0
5797.5	5798.5	A	5.9	61	1.0	27	196	9.5	9.2	.2	.9	.7		1	0
5798.0	5799.0	A	8.5	45	1.0	27	196	9.5	9.2	.3	1.4	.7		1	0
5798.5	5799.5	A	6.4	76	1.0	27	196	9.5	9.2	-.2	.7	.9		1	0
5799.0	5800.0	A	6.7	72	1.0	27	196	9.5	9.2	-.2	.8	.9		1	0
5799.5	5800.5	C	16.6	348	1.0	26	196	9.5	9.2		2.7		.7	1	2
5800.0	5801.0	A	12.4	81	1.0	26	196	9.5	9.2	-1.3	1.1	1.9		1	0
5800.5	5801.5	B	10.8	188	1.0	27	196	9.5	9.2	-.4	-1.6	.3		1	0
5801.0	5802.0	A	9.6	49	1.0	27	196	9.4	9.2	.3	1.5	.9		1	0
5801.5	5802.5	B	9.9	48	1.0	27	195	9.4	9.2	.1	1.6	.9		1	0
5802.0	5803.0	C	36.4	151	1.0	27	195	9.4	9.1		-4.8		.0	1	2
5802.5	5803.5	A	12.7	26	1.0	27	195	9.3	9.0	.7	2.2	.4		1	0
5803.0	5804.0	B	6.3	66	1.0	26	195	9.3	8.9	.6	.8	.8		1	0
5803.5	5804.5	D	10.3	253	1.0	25	196	9.2	8.9	.3	-.7			1	4
5804.0	5805.0	C	22.0	238	1.0	25	196	9.2	8.9	-.2	-2.6			1	4
5804.5	5805.5	C	26.9	235	1.0	26	197	9.2	8.9	-.4	-3.5			1	4

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	DIA NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5805.0	5806.0	B	5.4	166	1.0	27	198	9.2	8.8	-.1	-.6	.5		1	0
5805.5	5806.5	A	4.1	193	1.0	27	198	9.2	8.8	-.1	-.5	.1		1	0
5806.0	5807.0	D	7.8	349	1.0	27	199	9.2	8.8	.9			.5	1	3
5806.5	5807.5	D	11.1	1	.9	26	199	9.1	8.8	1.2	1.9			1	4
5807.0	5808.0	A	5.9	62	.9	25	199	9.1	8.8	.5	.8	.6		1	0
5807.5	5808.5	A	6.1	59	.9	25	199	9.1	8.8	.5	.9	.6		1	0
5808.0	5809.0	A	.5	190	.9	25	199	9.1	8.8	.0	.1	.0		1	0
5808.5	5809.5	A	.9	337	.9	25	200	9.1	8.8	.5	.3	-.1		1	0
5809.0	5810.0	B	7.2	90	.9	23	201	9.2	8.8		.5		.8	1	2
5809.5	5810.5	A	.5	292	.9	22	202	9.2	8.8	-.2	.1	-.1		1	0
5810.0	5811.0	B	2.0	28	.9	22	204	9.2	8.8	-.5	.5	.0		1	0
5810.5	5811.5	D	4.7	234	.9	24	205	9.2	8.8	-.1			-.4	1	3
5811.0	5812.0	B	10.8	313	.9	27	206	9.1	8.9	.2	.7	-1.6		1	0
5811.5	5812.5	C	11.0	326	.9	28	206	9.1	8.9	.4	1.0	-1.5		1	0
5812.0	5813.0	D	3.3	184	.9	31	206	9.1	8.9	-.3			-.1	1	3
5812.5	5813.5	D	24.5	107	.9	32	205	9.1	8.9		.8		2.4	1	2
5813.0	5814.0	D	32.7	27	.9	32	205	9.1	8.9	2.9			3.1	1	3
5813.5	5814.5	D	18.9	70	.9	31	205	9.1	8.9	.1			2.3	1	3
5814.0	5815.0	B	11.1	46	.9	30	205	9.2	8.9	.8	1.8	.7		1	0
5814.5	5815.5	B	8.4	74	.9	30	205	9.3	9.0	-.1	1.0	1.0		1	0
5815.0	5816.0	C	26.3	161	.9	29	205	9.4	9.1	-3.2			-.1	1	3
5815.5	5816.5	D	18.2	295	.9	28	205	9.5	9.1	2.2	.1	-3.0		1	0
5816.0	5817.0	B	13.9	84	.9	26	204	9.4	9.1	.3	1.3	1.9		1	0
5816.5	5817.5	D	15.1	63	.9	26	203	9.4	9.0	.3			1.8	1	3
5817.0	5818.0	D	27.0	340	.9	28	202	9.2	8.9	3.3			.3	1	3
5817.5	5818.5	D	26.6	338	.9	30	201	9.2	8.9	3.3			.3	1	3
5818.0	5819.0	C	7.6	288	.9	33	200	9.2	8.8		.1		-.5	1	2
5818.5	5819.5	A	9.4	119	1.0	34	200	9.2	8.8	-1.2	-.1	1.5		1	0
5819.0	5820.0	A	15.0	107	.9	32	200	9.2	8.7	-.7	.3	2.4		1	0
5819.5	5820.5	C	12.0	112	.9	31	200	9.2	8.7	-.9	.1	1.5		1	0
5820.0	5821.0	B	5.1	131	.9	28	200	9.2	8.7	.0	-.2	.7		1	0
5820.5	5821.5	B	8.4	133	.9	27	200	9.2	8.7		-.4		.4	1	2
5821.0	5822.0	C	33.4	115	.8	28	200	9.1	8.7	-3.1	-.4			1	4
5821.5	5822.5	C	12.4	119	.8	29	200	9.1	8.7	-1.5	-.2	1.9		1	0
5822.0	5823.0	D	17.8	208	.8	28	200	9.0	8.7		-2.7		-1.5	1	2
5823.0	5824.0	C	16.8	178	.8	25	201	9.0	8.8	-2.7	-2.4	1.0		1	0
5823.5	5824.5	C	11.9	180	.8	23	202	9.1	8.8	-1.2			-.5	1	3
5824.0	5825.0	B	7.5	12	.9	21	202	9.1	8.8		1.3		.5	1	2
5824.5	5825.5	C	6.3	173	.9	21	202	9.1	8.8	.1	-.7	.5		1	0
5825.0	5826.0	D	24.4	171	.9	22	201	9.2	8.7		-5.4		-.7	1	2
5825.5	5826.5	D	28.6	101	1.0	23	201	9.2	8.7		1.0		2.9	1	2
5826.0	5827.0	D	6.9	90	1.0	23	200	9.2	8.7	-.6	.5	1.0		1	0
5826.5	5827.5	B	3.9	70	1.0	23	200	9.2	8.7	-.4	.6	.5		1	0
5827.0	5828.0	A	2.8	59	1.0	21	199	9.1	8.8	-.3	.5	.3		1	0
5827.5	5828.5	B	11.2	275	1.0	21	198	9.1	8.8	-.2	-.2	-1.7		1	0
5828.0	5829.0	D	29.0	107	1.0	20	196	9.1	8.9		.0		2.5	1	2
5828.5	5829.5	D	37.5	129	1.0	20	195	9.1	8.9		-2.6		1.8	1	2
5829.0	5830.0	B	16.9	10	.9	19	195	9.1	8.9	1.6	2.9	-.2		1	0
5829.5	5830.5	D	21.3	33	.9	20	194	9.1	8.9	1.2			2.3	1	3
5830.0	5831.0	C	16.4	298	.9	19	193	9.1	8.9	1.7	.9			1	4
5830.5	5831.5	C	6.9	105	.9	18	191	9.1	8.9		.1		.6	1	2
5831.0	5832.0	C	11.7	124	.9	16	189	9.1	8.8	-1.2			.5	1	3
5831.5	5832.5	C	4.5	24	1.0	15	188	9.1	8.8	.3			.5	1	3
5832.0	5833.0	D	14.3	38	1.0	13	189	9.1	8.8	.0	2.2	1.1		1	0
5832.5	5833.5	D	12.7	70	1.1	14	190	9.1	8.8	-.3			1.5	1	3

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	DIA NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5833.0	5834.0	B	28.4	87	1.0	16	192	9.0	8.7	-1.6			3.0	1	3
5834.0	5835.0	D	17.4	181	.9	22	194	9.0	8.8		-2.6		-1.0	1	2
5834.5	5835.5	D	16.8	327	.9	24	195	9.0	8.8		2.0		.0	1	2
5835.0	5836.0	D	38.8	289	.9	28	197	9.1	8.9	3.7	.3			1	4
5835.5	5836.5	D	29.0	282	.9	30	198	9.1	8.9	2.2			-2.6	1	3
5836.5	5837.5	D	23.4	141	.8	35	202	9.1	9.0	-2.6	-1.8			1	4
5837.0	5838.0	C	13.0	158	.8	35	203	9.1	8.9	-1.4			.1	1	3
5837.5	5838.5	A	2.4	77	.8	35	204	9.1	8.9	-.9	.4	.3		1	0
5838.0	5839.0	A	8.8	119	.8	34	204	9.2	8.9	-1.0	.0	1.4		1	0
5838.5	5839.5	B	9.8	129	.8	35	204	9.1	8.9	-1.5	-.3	1.5		1	0
5839.0	5840.0	B	16.8	151	.8	34	204	9.1	8.8	-1.8	-1.5	2.2		1	0
5839.5	5840.5	A	8.1	152	.8	34	205	9.1	8.8	-.3	-.7	1.0		1	0
5840.0	5841.0	B	7.4	149	.8	32	206	9.1	8.8		-.5		.2	1	2
5840.5	5841.5	D	4.4	48	.8	30	207	9.1	8.8	.3	.8	.3		1	0
5841.0	5842.0	C	6.3	63	.8	30	207	9.1	8.8	.1	.9	.6		1	0
5841.5	5842.5	C	7.3	120	.7	32	208	9.1	8.8	-.5	.1	1.1		1	0
5842.0	5843.0	D	16.3	76	.7	34	209	9.1	8.8		1.9		1.9	1	2
5842.5	5843.5	A	7.6	143	.7	35	210	9.1	8.8	-.6	-.4	1.1		1	0
5843.0	5844.0	A	7.0	126	.7	35	211	9.1	8.8	-.5	.0	1.1		1	0
5843.5	5844.5	C	17.9	17	.6	32	213	9.1	8.8	1.9			1.1	1	3
5844.0	5845.0	D	10.5	11	.6	31	213	9.1	8.8	1.7	1.7	-.6		1	0
5844.5	5845.5	D	26.1	65	.6	27	214	9.0	8.8	.9			3.1	1	3
5845.0	5846.0	C	18.7	59	.6	26	215	9.0	8.8	.8			2.1	1	3
5845.5	5846.5	C	3.0	96	.6	28	214	9.0	8.8	.4	.3	.4		1	0
5846.0	5847.0	B	7.2	177	.7	29	213	9.0	8.8	-.1	-.8	.6		1	0
5846.5	5847.5	C	5.4	118	.7	32	211	9.0	8.8		.2		.5	1	2
5847.0	5848.0	C	5.2	96	.7	32	211	9.0	8.8		.5		.6	1	2
5847.5	5848.5	D	5.6	330	.7	31	210	9.0	8.8	.0	.6	-.8		1	0
5848.0	5849.0	D	20.7	332	.7	31	209	9.0	8.8		2.0		-.4	1	2
5848.5	5849.5	D	25.6	331	.8	32	208	9.0	8.8	5.0			-.5	1	3
5849.0	5850.0	D	28.0	293	.8	33	206	9.1	8.8	2.3			-2.4	1	3
5849.5	5850.5	D	9.9	1	.8	33	204	9.1	8.8	1.3	1.6	-.6		1	0
5850.0	5851.0	D	32.7	98	.8	31	202	9.1	8.8	-2.0	1.6			1	4
5850.5	5851.5	D	24.5	282	.8	30	200	9.1	8.8	1.8	-.4			1	4
5851.0	5852.0	C	20.0	348	.8	29	200	9.1	8.8	1.4	3.0	-1.7		1	0
5851.5	5852.5	B	12.1	6	.8	29	200	9.1	8.8	.5	2.0	-.4		1	0
5852.0	5853.0	A	1.8	297	.8	29	201	9.2	8.8	.3	.2	-.3		1	0
5852.5	5853.5	C	8.6	341	.8	27	202	9.1	8.8		1.2		.2	1	2
5853.0	5854.0	D	32.8	164	.8	28	202	9.1	8.9	-4.0			-.4	1	3
5853.5	5854.5	C	30.9	154	.8	31	203	9.1	8.9	-4.0	-3.5	4.0		1	0
5854.0	5855.0	B	17.8	243	.8	32	203	9.1	8.9		-2.1		-2.0	1	2
5854.5	5855.5	D	6.9	283	.8	33	204	9.0	8.9	.5	-.1			1	4
5855.0	5856.0	D	2.1	214	.8	33	205	9.0	8.8	-.1	-.2			1	4
5855.5	5856.5	D	16.7	96	.8	31	207	9.0	8.8	-.7			1.8	1	3
5856.0	5857.0	D	15.5	9	.8	30	207	9.0	8.8	1.5	2.5	-.8		1	0
5857.0	5858.0	A	5.9	247	.8	29	210	9.0	8.8	-.5	-.6	-.6		1	0
5857.5	5858.5	B	9.5	242	.8	31	211	9.0	8.8	-.2	-1.2	-.8		1	0
5858.0	5859.0	C	17.1	231	.8	32	211	9.0	8.8	.2	-2.5	-.9		1	0
5858.5	5859.5	B	24.6	169	.8	34	211	9.0	8.8	-2.8	-2.9			1	4
5859.0	5860.0	C	39.6	109	.8	33	210	9.0	8.8	-2.8	1.6			1	4
5859.5	5860.5	C	16.2	173	.8	31	209	9.0	8.8		-2.0		-.2	1	2
5860.0	5861.0	D	18.8	160	.8	30	208	9.0	8.8	-2.1	-1.9			1	4
5860.5	5861.5	C	23.8	125	.8	31	206	9.0	8.8	-2.2	-.5			1	4
5861.0	5862.0	D	17.1	277	.8	31	205	9.0	8.8	1.6	-.8	-2.6		1	0
5861.5	5862.5	D	16.8	243	.8	30	205	9.0	8.8		-2.0		-1.8	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5862.0	5863.0	D	16.4	41	.8	29	204	9.0	8.8	1.0			1.7	1	3
5862.5	5863.5	D	10.8	50	.8	28	204	9.0	8.8	1.1	1.7	.7		1	0
5863.0	5864.0	B	7.4	56	.8	29	204	9.0	8.8	.3	1.1	.6		1	0
5863.5	5864.5	D	7.2	246	.8	30	204	9.0	8.8	.4	-.7	-.7		1	0
5864.0	5865.0	A	14.4	281	.8	30	204	9.0	8.8	.7	-.4	-2.2		1	0
5864.5	5865.5	B	26.9	271	.9	30	204	9.0	8.8	1.3	-1.6	-4.1		1	0
5865.0	5866.0	D	26.9	145	.9	30	204	9.0	8.8		-2.2		.8	1	2
5866.0	5867.0	D	25.6	161	.8	30	204	9.1	8.8	-2.9			-.1	1	3
5866.5	5867.5	B	23.3	93	.7	30	203	9.1	8.7	-1.0	1.5			1	4
5867.0	5868.0	C	16.3	90	.7	30	204	9.1	8.7	-.7	1.2	2.4		1	0
5867.5	5868.5	D	7.5	231	.8	30	204	9.1	8.7	-.2	-.9			1	4
5868.0	5869.0	D	32.1	250	.8	31	204	9.0	8.7	-.2	-3.8	-3.8		1	0
5868.5	5869.5	B	26.5	246	.8	31	205	9.0	8.7	-.4	-3.2	-2.8		1	0
5869.0	5870.0	B	22.7	239	.8	31	205	9.0	8.7	-.4	-3.0	-2.0		1	0
5870.0	5871.0	D	13.4	69	.8	28	204	9.0	8.7	.1			1.6	1	3
5870.5	5871.5	A	9.4	197	.9	27	205	9.0	8.8	-.4	-1.3	.2		1	0
5871.0	5872.0	B	9.5	217	.9	26	205	9.0	8.9	-.7	-1.3	-.3		1	0
5871.5	5872.5	B	20.5	333	.9	24	204	9.0	8.8	2.4			-.2	1	3
5872.0	5873.0	C	24.9	353	.8	21	203	9.0	8.8	2.9			.8	1	3
5872.5	5873.5	D	11.4	354	.8	21	203	9.1	8.8	1.3			.4	1	3
5873.0	5874.0	D	2.9	216	.8	22	202	9.1	8.7	-.2	-.3	-.1		1	0
5873.5	5874.5	D	8.2	195	.8	24	201	9.1	8.7	-.7			-.5	1	3
5874.0	5875.0	A	8.6	221	.7	26	200	9.1	8.7	-.7	-1.2	-.5		1	0
5874.5	5875.5	A	14.3	255	.8	28	198	9.1	8.8	.0	-1.1	-1.9		1	0
5875.5	5876.5	C	23.0	56	.8	28	198	9.0	8.9	.4			2.8	1	3
5876.0	5877.0	A	11.9	173	.8	29	199	9.0	8.9	-.9	-1.6	.8		1	0
5876.5	5877.5	C	17.4	217	.8	33	204	9.0	8.9		-2.6		-1.6	1	2
5877.0	5878.0	B	17.1	221	.8	37	207	9.0	8.9		-2.6		-1.6	1	2
5877.5	5878.5	C	23.0	203	.7	42	214	9.0	8.8	-2.2			-1.4	1	3
5878.0	5879.0	B	55.2	121	.6	44	218	9.0	8.8	-2.7	.8			1	4
5878.5	5879.5	B	5.6	73	.6	47	223	9.0	8.7	-.2	.9	.4		1	0
5879.0	5880.0	D	4.4	79	.6	46	225	9.0	8.7	.1			.5	1	3
5879.5	5880.5	D	20.5	273	.6	45	227	9.0	8.7	.2	-2.2	-2.3		1	0
5880.0	5881.0	D	19.6	276	.6	45	227	8.9	8.7	-.8	-2.0	-2.3		1	0
5880.5	5881.5	D	22.3	100	.6	49	228	8.9	8.7		2.4		2.6	1	2
5881.0	5882.0	C	35.3	139	.6	49	229	8.9	8.7		.1		3.2	1	2
5881.5	5882.5	C	39.4	309	.6	50	231	8.9	8.7	2.8	-1.4			1	4
5882.0	5883.0	D	37.1	56	.5	50	231	8.9	8.7	3.2			3.7	1	3
5882.5	5883.5	C	34.4	216	.6	54	233	8.9	8.7	-3.7			-2.0	1	3
5883.0	5884.0	C	24.5	237	.6	54	233	8.9	8.7		-3.9		-2.1	1	2
5883.5	5884.5	D	26.0	312	.6	54	234	8.9	8.7	1.7			-2.5	1	3
5884.0	5885.0	D	37.3	310	.6	52	235	8.9	8.8	2.4	-1.7			1	4
5884.5	5885.5	D	26.4	172	.5	51	235	9.0	8.8		-1.9		1.0	1	2
5885.0	5886.0	D	13.0	253	.5	45	233	9.0	8.9		-1.9		-1.3	1	2
5885.5	5886.5	D	26.8	347	.5	41	232	9.0	8.9		2.0		-1.1	1	2
5886.0	5887.0	D	26.0	249	.5	37	230	9.0	8.9	-1.6	-4.0	-1.4		1	0
5886.5	5887.5	C	30.5	44	.5	37	229	9.0	8.9	2.9			2.4	1	3
5887.0	5888.0	D	35.8	110	.5	38	230	9.0	8.8	-1.1	3.3			1	4
5887.5	5888.5	D	25.4	218	.5	38	229	9.0	8.8	-2.5			-1.6	1	3
5888.0	5889.0	D	32.4	53	.5	39	229	9.0	8.8	2.7			3.1	1	3
5888.5	5889.5	D	33.7	56	.6	40	230	9.0	8.8	2.7			3.4	1	3
5889.0	5890.0	C	36.5	137	.6	43	230	9.0	8.8		.4		3.5	1	2
5889.5	5890.5	C	15.9	181	.6	45	230	9.0	8.8		-1.6		.1	1	2
5890.0	5891.0	D	17.5	309	.6	48	229	9.1	8.8	1.2			-1.6	1	3
5890.5	5891.5	D	18.9	276	.6	48	227	9.1	8.8	.2			-2.1	1	3

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAHIX.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	DIA NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5891.0	5892.0	D	13.7	104	.6	47	223	9.1	8.8	-.3	1.2			1	4
5891.5	5892.5	D	11.2	109	.7	45	221	9.1	8.8	-.4	.8			1	4
5892.0	5893.0	C	28.7	100	.7	40	218	9.0	8.8	-.9			3.4	1	3
5892.5	5893.5	C	15.9	206	.7	38	217	9.0	8.8	-1.4			-1.0	1	3
5893.0	5894.0	C	27.9	121	.7	37	217	9.0	8.8	-2.0			2.6	1	3
5893.5	5894.5	B	37.6	102	.7	37	217	9.0	8.9	-1.5	3.1			1	4
5894.0	5895.0	B	37.2	285	.7	37	219	9.0	8.9	1.7	-2.7			1	4
5894.5	5895.5	B	10.1	8	.7	37	220	9.1	8.9	.9	1.5	-.9		1	0
5895.0	5896.0	A	.9	40	.6	38	224	9.2	8.9	-.4	.3	.0		1	0
5895.5	5896.5	A	11.1	111	.6	39	225	9.2	8.9	-.7	.9	1.6		1	0
5896.0	5897.0	A	5.3	80	.6	41	227	9.3	8.9	.2	.8	.4		1	0
5896.5	5897.5	A	3.1	73	.6	41	228	9.3	9.0	.2	.6	.2		1	0
5897.0	5898.0	A	6.4	117	.6	41	228	9.4	9.0	-.5	.5	.9		1	0
5897.5	5898.5	A	2.1	165	.6	40	228	9.4	9.1	-.5	-.1	.3		1	0
5898.0	5899.0	C	1.1	96	.6	41	227	9.3	9.1	.0			.2	1	3
5898.5	5899.5	B	.8	150	.6	41	226	9.3	9.1	.0			.1	1	3
5899.0	5900.0	A	6.2	108	.6	42	225	9.3	9.1	-.2	.6	.9		1	0
5899.5	5900.5	B	6.9	333	.6	42	225	9.3	9.1		.5		-.3	1	2
5900.0	5901.0	B	.8	111	.6	41	224	9.2	9.1		.2		.1	1	2
5900.5	5901.5	A	9.2	139	.6	42	223	9.2	9.1	-.3	.0	1.5		1	0
5901.0	5902.0	A	10.1	130	.6	42	222	9.2	9.1	-1.5	.2	1.6		1	0
5901.5	5902.5	C	15.8	140	.7	43	221	9.2	9.2	-1.7	-.3	2.5		1	0
5902.0	5903.0	C	14.0	350	.7	43	220	9.3	9.2	1.7			-.1	1	3
5902.5	5903.5	D	9.9	275	.7	43	220	9.3	9.2	.5	-.8	-1.3		1	0
5903.0	5904.0	A	7.5	129	.7	43	218	9.3	9.2	-.4	.1	1.2		1	0
5903.5	5904.5	B	6.2	211	.7	42	218	9.3	9.2		-.9		-.4	1	2
5904.0	5905.0	B	12.1	130	.7	42	216	9.3	9.1	-.6	.0	2.0		1	0
5904.5	5905.5	B	2.8	119	.7	41	215	9.3	9.1	-.3	-.2	.4		1	0
5905.0	5906.0	A	9.0	168	.7	38	214	9.3	9.1	-.7	-1.2	.6		1	0
5905.5	5906.5	B	7.4	172	.7	37	214	9.3	9.1	-.4	-.8	.8		1	0
5906.0	5907.0	A	24.8	200	.8	35	213	9.3	9.1	-2.8	-4.1	.9		1	0
5906.5	5907.5	B	28.5	178	.8	35	212	9.3	9.1	-2.4	-4.0	2.8		1	0
5907.0	5908.0	C	18.3	184	.8	34	211	9.2	9.1	-2.0			-.6	1	3
5907.5	5908.5	C	18.5	196	.8	34	212	9.2	9.0	-1.5	-2.8	.8		1	0
5908.0	5909.0	D	19.3	217	.8	34	212	9.1	9.0		-3.1		-1.7	1	2
5908.5	5909.5	D	19.5	177	.8	34	214	9.1	9.0	-2.2	-2.5	1.9		1	0
5909.0	5910.0	A	8.5	175	.8	35	214	9.1	8.9	-.2	-.9	.8		1	0
5909.5	5910.5	A	6.3	179	.8	35	215	9.1	8.9	-.5	-.7	.6		1	0
5910.0	5911.0	A	4.8	135	.7	35	215	9.1	8.9	-.5	.0	.7		1	0
5910.5	5911.5	B	8.9	268	.7	35	214	9.1	8.9	.1	-.7	-1.1		1	0
5911.0	5912.0	A	5.6	130	.8	33	214	9.1	8.9	-.8	.0	.9		1	0
5911.5	5912.5	A	10.2	168	.8	33	213	9.1	8.9	-1.3	-1.0	1.1		1	0
5912.0	5913.0	A	7.5	113	.8	33	211	9.1	8.9	-.2	.3	1.2		1	0
5912.5	5913.5	C	26.2	348	.8	34	209	9.1	8.9		3.5		.3	1	2
5913.0	5914.0	C	13.2	112	.8	32	207	9.1	8.8	-.9			1.2	1	3
5913.5	5914.5	B	11.8	209	.8	31	205	9.1	8.8	-.8	-1.8			1	4
5914.0	5915.0	A	16.6	150	.9	29	204	9.1	8.8	-1.8	-1.5	2.1		1	0
5914.5	5915.5	A	12.0	151	.9	28	203	9.1	8.8	-1.4	-1.0	1.5		1	0
5915.0	5916.0	B	16.2	210	.8	27	204	9.1	8.8	-.9	-2.5	-.2		1	0
5915.5	5916.5	B	19.8	184	.8	27	205	9.1	8.8	-1.3	-2.9	1.1		1	0
5916.0	5917.0	C	23.1	172	.8	25	206	9.1	8.8	-2.6			-.5	1	3
5916.5	5917.5	B	10.7	133	.8	25	207	9.1	8.8	-1.4	-.3	1.6		1	0
5917.0	5918.0	A	10.0	217	.8	27	208	9.1	8.8	-.4	-1.5	-.2		1	0
5917.5	5918.5	D	19.0	356	.8	28	209	9.1	8.8	2.2			.5	1	3
5918.0	5919.0	C	14.8	112	.8	30	210	9.1	8.8	-.9	.5			1	4

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5918.5	5919.5 B	22.0	188	.8	30	211	9.1	8.8	-1.8	-3.3	1.4		1	0
5919.0	5920.0 C	11.7	12	.8	30	211	9.2	8.8		1.9		.7	1	2
5919.5	5920.5 B	9.8	5	.8	30	211	9.2	8.8	1.0	1.5	-.7		1	0
5920.0	5921.0 C	10.0	136	.8	30	212	9.3	8.9	-.4	-.3	1.5		1	0
5920.5	5921.5 B	16.8	156	.8	31	212	9.3	8.9		-1.4		.4	1	2
5921.0	5922.0 B	6.8	144	.8	34	213	9.4	8.9	-1.4	-.3	1.0		1	0
5921.5	5922.5 C	15.4	179	.8	34	212	9.4	8.9	-1.7			-.3	1	3
5922.0	5923.0 A	8.7	128	.8	33	210	9.4	8.9	-.7	-.1	1.4		1	0
5922.5	5923.5 C	8.8	129	.8	31	209	9.4	9.0	-.5	-.1	1.4		1	0
5923.0	5924.0 C	4.2	121	.8	28	206	9.4	9.0	-.3			.4	1	3
5923.5	5924.5 D	16.1	247	.8	27	206	9.5	9.0	-.1			-1.8	1	3
5924.0	5925.0 D	9.9	63	.8	28	206	9.5	9.0	.3	1.5	1.0		1	0
5924.5	5925.5 B	7.0	42	.8	28	206	9.4	8.9	.8	1.3	.3		1	0
5925.0	5926.0 A	7.5	71	.9	28	206	9.3	8.9	.0	1.0	.8		1	0
5925.5	5926.5 B	5.9	174	.9	27	205	9.2	8.9	-1.1	-.7	.5		1	0
5926.0	5927.0 B	20.3	128	.9	26	204	9.2	8.9	-1.0	-.7	3.2		1	0
5926.5	5927.5 A	12.9	104	.9	21	201	9.1	8.9	.1	.4	2.0		1	0
5927.0	5928.0 A	3.3	313	.9	20	198	9.1	9.0	.3	.4	-.5		1	0
5927.5	5928.5 B	17.3	37	.9	16	193	9.1	9.0		2.8		2.0	1	2
5928.0	5929.0 C	17.5	344	1.0	15	189	9.1	9.0		2.8		.8	1	2
5928.5	5929.5 C	13.8	188	1.0	14	182	9.1	8.9	-1.2	-2.1	-.2		1	0
5929.0	5930.0 B	8.4	177	1.0	14	178	9.1	8.9	-.7	-1.2	.1		1	0
5929.5	5930.5 B	17.3	23	1.1	12	170	9.2	8.9	.5			2.1	1	3
5930.0	5931.0 A	6.1	359	1.1	10	168	9.2	8.9	.1	1.1	.2		1	0
5930.5	5931.5 A	8.4	66	1.1	7	163	9.2	8.9	-.7	.3	1.4		1	0
5931.0	5932.0 A	12.0	53	1.1	6	162	9.2	8.9	-.9	.8	1.9		1	0
5931.5	5932.5 C	1.6	235	1.1	5	159	9.3	9.0		.1		.0	1	2
5932.0	5933.0 B	17.1	52	1.1	4	158	9.3	9.0	-.7		2.8		1	0
5932.5	5933.5 B	13.5	56	1.2	4	157	9.4	9.1	-1.0	.8	2.2		1	0
5933.0	5934.0 C	26.3	112	1.2	4	157	9.4	9.0	-2.4	-3.1	3.2		1	0
5933.5	5934.5 D	21.6	47	1.1	3	156	9.5	9.1	-1.1			2.4	1	3
5934.0	5935.0 D	20.9	179	1.1	2	155	9.5	9.1	-.9	-3.1			1	4
5934.5	5935.5 D	16.7	53	1.1	2	154	9.6	9.1	-1.2	.7	2.7		1	0
5935.0	5936.0 C	9.3	267	1.1	2	154	9.7	9.0		.8		-.2	1	2
5935.5	5936.5 D	13.1	182	1.1	3	153	9.7	9.0	-.4	-1.8			1	4
5936.0	5937.0 D	21.4	35	1.1	3	153	9.7	9.0	-.7			2.6	1	3
5936.5	5937.5 D	16.4	55	1.1	4	152	9.7	9.0	-.2	.5	2.7		1	0
5937.0	5938.0 D	17.5	55	1.1	4	152	9.6	9.0	-.3	.5	2.9		1	0
5937.5	5938.5 C	10.0	103	1.1	4	152	9.5	9.0	-1.1			.2	1	3
5938.0	5939.0 D	1.8	294	1.1	5	152	9.5	9.0	-.6	.4	-.1		1	0
5938.5	5939.5 D	22.7	58	1.2	5	152	9.5	9.0	-1.7			2.2	1	3
5939.0	5940.0 D	17.0	117	1.2	5	152	9.5	9.0	-1.9			-.3	1	3
5939.5	5940.5 D	33.3	266	1.2	4	153	9.5	9.0		2.6		-1.4	1	2
5940.0	5941.0 D	19.6	130	1.1	4	153	9.5	9.0		-2.9		-.8	1	2
5940.5	5941.5 C	26.4	280	1.1	2	153	9.5	9.0	3.2			-.2	1	3
5941.0	5942.0 D	4.5	107	1.2	2	153	9.4	9.0	-.6	-.3	.6		1	0
5941.5	5942.5 C	9.0	203	1.2	2	152	9.4	9.1	.1			-.9	1	3
5942.5	5943.5 D	20.1	109	1.2	2	152	9.4	9.1	-2.4			.0	1	3
5943.0	5944.0 D	16.2	101	1.2	2	152	9.4	9.2	-1.9			.3	1	3
5943.5	5944.5 B	11.8	191	1.2	2	152	9.4	9.2	.5	-1.3	-1.1		1	0
5944.0	5945.0 B	19.1	138	1.3	2	152	9.4	9.1	-1.9	-3.0			1	4
5944.5	5945.5 A	11.8	190	1.3	3	152	9.4	9.1	.1	-1.4	-1.1		1	0
5945.0	5946.0 B	11.6	275	1.3	3	152	9.4	9.0	1.3			-.1	1	3
5945.5	5946.5 B	12.5	311	1.2	4	152	9.4	9.0		2.1		.7	1	2
5946.0	5947.0 D	15.7	135	1.2	4	153	9.4	8.9		-2.3		-.7	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL	CORR. GRADE		DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5946.5	5947.5	D	25.0	116	1.2	4	153	9.3	8.9	-2.9			-.4	1	3
5947.0	5948.0	D	9.3	336	1.2	5	153	9.2	8.9	.7	1.7	.2		1	0
5947.5	5948.5	C	19.8	358	1.3	4	154	9.1	8.8	.9			2.3	1	3
5948.0	5949.0	D	25.6	336	1.3	4	154	9.1	8.8		4.6		2.4	1	2
5949.0	5950.0	D	22.3	236	1.2	3	152	9.1	8.8	1.6	-.2			1	4
5949.5	5950.5	C	19.8	300	1.2	3	151	9.1	8.8	2.3			.7	1	3
5950.0	5951.0	B	20.2	14	1.2	3	150	9.1	8.8	.1			2.5	1	3
5950.5	5951.5	D	32.3	77	1.2	4	150	9.1	8.8		-1.5		2.0	1	2
5951.0	5952.0	C	20.5	13	1.3	4	151	9.1	8.8	.2	2.7			1	4
5951.5	5952.5	B	16.9	32	1.3	5	151	9.1	8.8	.1	1.5	2.4		1	0
5952.0	5953.0	D	31.8	336	1.3	5	152	9.1	8.8	2.7			3.2	1	3
5952.5	5953.5	D	26.7	312	1.3	5	153	9.1	8.8	3.0			1.5	1	3
5953.0	5954.0	C	28.3	310	1.3	5	152	9.1	8.8	3.2			1.5	1	3
5953.5	5954.5	C	19.4	104	1.2	5	151	9.1	8.8	-2.2			.2	1	3
5954.0	5955.0	D	38.1	213	1.2	4	150	9.1	8.8	1.5	-2.9			1	4
5954.5	5955.5	D	24.4	233	1.2	4	148	9.1	8.8	1.8			-2.0	1	3
5955.0	5956.0	B	22.1	17	1.2	3	147	9.1	8.8	-.2	2.5			1	4
5955.5	5956.5	D	12.9	25	1.2	3	146	9.1	8.8	-.3			1.5	1	3
5956.0	5957.0	C	24.7	18	1.3	2	145	9.1	8.8	-.3			3.0	1	3
5956.5	5957.5	D	5.9	75	1.3	2	145	9.1	8.8	.0	-.2	1.0		1	0
5957.0	5958.0	D	1.0	333	1.3	2	145	9.1	8.8	.1			.2	1	3
5957.5	5958.5	C	1.9	337	1.3	1	146	9.1	8.8	.1			.3	1	3
5958.0	5959.0	D	29.8	277	1.2	1	146	9.1	8.8		3.6		.0	1	2
5958.5	5959.5	C	13.3	63	1.2	1	146	9.1	8.8	-1.1			1.0	1	3
5959.0	5960.0	C	19.6	301	1.2	1	146	9.1	8.8		3.1		.9	1	2
5959.5	5960.5	D	24.2	7	1.2	1	146	9.1	8.8		3.3		3.0	1	2
5960.0	5961.0	D	25.9	300	1.2	1	146	9.1	8.8	2.9			1.2	1	3
5960.5	5961.5	C	15.6	344	1.2	0	146	9.1	8.8	.9	2.6			1	4
5961.0	5962.0	D	24.4	353	1.2	0	146	9.1	8.8	1.0	5.9			1	4
5961.5	5962.5	D	29.6	33	1.2	0	145	9.1	8.8	-1.3			3.5	1	3
5962.0	5963.0	D	28.7	344	1.2	1	143	9.1	8.8	1.5			3.4	1	3
5963.0	5964.0	D	10.9	294	1.2	0	142	9.1	8.8	1.2	1.7			1	4
5963.5	5964.5	D	25.4	202	1.2	359	138	9.1	8.8		-1.7		-2.7	1	2
5964.0	5965.0	D	28.3	199	1.2	358	135	9.1	8.9		-2.1		-3.1	1	2
5964.5	5965.5	C	19.8	315	1.2	357	131	9.1	9.0	1.4	3.4	.3		1	0
5965.0	5966.0	D	13.3	289	1.2	356	130	9.1	9.1	1.0	2.1	-.6		1	0
5965.5	5966.5	D	23.8	82	1.2	357	129	9.1	9.1	-2.9			.2	1	3
5966.0	5967.0	B	7.3	275	1.2	357	129	9.1	9.1	.0	1.1	-.5		1	0
5966.5	5967.5	C	33.5	24	1.2	358	128	9.1	9.1		1.6		3.8	1	2
5967.0	5968.0	C	30.7	51	1.2	358	128	9.1	9.0		-1.1		2.1	1	2
5967.5	5968.5	C	10.8	89	1.1	357	127	9.1	9.0	-.5	-1.3	1.2		1	0
5968.0	5969.0	B	14.6	24	1.1	356	126	9.1	9.1	-.9	.6			1	4
5968.5	5969.5	D	13.7	140	1.1	355	125	9.2	9.1	-.8			-1.2	1	3
5969.0	5970.0	B	19.9	8	1.1	351	123	9.2	9.1	.0	1.5	3.1		1	0
5969.5	5970.5	B	15.3	28	1.1	349	122	9.2	9.1	-.8	.3	2.6		1	0
5970.0	5971.0	B	16.0	33	1.1	347	121	9.2	9.0	-1.4	.0			1	4
5970.5	5971.5	C	32.9	131	1.1	347	120	9.3	8.9	-2.4			-3.3	1	3
5971.0	5972.0	B	22.6	60	1.1	348	119	9.4	8.8		-1.9		.7	1	2
5971.5	5972.5	B	30.0	48	1.1	348	119	9.4	8.7		-1.7		1.6	1	2
5972.0	5973.0	C	22.6	49	1.1	349	118	9.5	8.8		-1.3		1.1	1	2
5972.5	5973.5	B	18.9	51	1.1	350	117	9.5	8.8	-2.2	-1.2	2.9		1	0
5973.0	5974.0	B	13.4	39	1.2	351	116	9.5	8.8	-1.3	-.4	2.2		1	0
5973.5	5974.5	A	11.7	38	1.2	352	116	9.5	8.8	-1.4	-.3	2.0		1	0
5974.0	5975.0	A	3.0	105	1.2	351	116	9.5	8.9	-.6	-.4	.2		1	0
5974.5	5975.5	B	20.5	195	1.2	351	116	9.5	8.9		-.5		-1.8	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5975.0	5976.0	B	19.2	39	1.2	352	115	9.5	9.0	-2.0	-.7	3.2		1	0
5975.5	5976.5	D	11.5	29	1.2	352	115	9.5	9.0	.0	.0	2.0		1	0
5976.0	5977.0	C	11.5	29	1.2	352	115	9.5	9.1	.0	.0	2.0		1	0
5976.5	5977.5	A	13.2	21	1.2	352	115	9.4	9.1	-.6	.3	2.3		1	0
5977.0	5978.0	B	11.9	22	1.2	351	115	9.4	9.1	-.7	.2	2.1		1	0
5977.5	5978.5	B	9.8	23	1.2	350	115	9.4	9.2		.2		1.0	1	2
5978.0	5979.0	B	16.2	34	1.2	349	115	9.4	9.2	-1.6			1.2	1	3
5978.5	5979.5	C	5.3	346	1.2	348	115	9.4	9.2		.7		.8	1	2
5979.0	5980.0	B	7.8	23	1.2	349	115	9.5	9.3	-1.1	.2	1.4		1	0
5979.5	5980.5	C	10.3	18	1.2	349	115	9.5	9.3	-.8			1.1	1	3
5980.0	5981.0	A	8.6	28	1.2	350	115	9.5	9.3	-.6	.0	1.6		1	0
5980.5	5981.5	B	31.5	156	1.2	350	115	9.5	9.2	-1.0	-4.2	-3.5		1	0
5981.0	5982.0	B	8.3	22	1.2	349	115	9.5	9.2	-.8	.2	1.5		1	0
5981.5	5982.5	C	2.1	19	1.2	349	114	9.5	9.2	-.7	.1	.5		1	0
5982.0	5983.0	A	1.6	28	1.2	350	114	9.5	9.2	-.1	.1	.4		1	0
5982.5	5983.5	A	2.4	45	1.2	350	114	9.5	9.2	-.2	.0	.5		1	0
5983.0	5984.0	A	1.4	183	1.2	351	113	9.5	9.2	.0	.0	-.1		1	0
5983.5	5984.5	A	4.2	199	1.2	350	113	9.5	9.2	.2	.1	-.5		1	0
5984.0	5985.0	B	5.0	193	1.2	349	113	9.5	9.1	.3	.0			1	4
5984.5	5985.5	B	13.8	18	1.2	349	112	9.5	9.1	-.8	.3	2.4		1	0
5985.0	5986.0	C	8.3	241	1.2	348	111	9.5	9.1	.9	1.0			1	4
5985.5	5986.5	B	3.7	45	1.2	347	111	9.5	9.1	.4	-.1	.7		1	0
5986.0	5987.0	A	2.5	47	1.1	346	110	9.5	9.1	-.2	-.1	.5		1	0
5986.5	5987.5	A	2.3	347	1.1	346	109	9.5	9.1	.1	.3	.5		1	0
5987.0	5988.0	A	2.2	12	1.1	345	108	9.5	9.2	-.3	.1	.5		1	0
5987.5	5988.5	A	3.9	1	1.1	345	107	9.5	9.2	-.1	.3	.7		1	0
5988.0	5989.0	A	2.8	300	1.1	345	106	9.5	9.2	.1	.5	.5		1	0
5988.5	5989.5	A	2.2	290	1.1	345	105	9.5	9.2	.1	.5	.2		1	0
5989.0	5990.0	A	1.5	331	1.1	344	104	9.5	9.2	-.1	.3	.5		1	0
5989.5	5990.5	A	1.7	309	1.1	344	103	9.5	9.2	.1	.3	.5		1	0
5990.0	5991.0	A	1.0	284	1.1	344	101	9.5	9.2	.1	.3	.2		1	0
5990.5	5991.5	A	1.8	222	1.1	343	101	9.5	9.2	.0	.2	-.1		1	0
5991.0	5992.0	A	7.4	269	1.1	343	100	9.5	9.2	.7	1.3	-.1		1	0
5991.5	5992.5	A	5.6	247	1.1	343	99	9.5	9.2	.7	.9	-.3		1	0
5992.0	5993.0	B	3.9	223	1.1	342	98	9.5	9.2	.2	.5	-.4		1	0
5992.5	5993.5	B	1.4	198	1.1	342	98	9.5	9.2	.0	.1	-.1		1	0
5993.0	5994.0	A	1.1	214	1.1	342	97	9.5	9.2	.3	.2	.0		1	0
5993.5	5994.5	A	1.5	242	1.1	342	96	9.5	9.2	.1	.3	.0		1	0
5994.0	5995.0	A	3.8	256	1.1	342	96	9.5	9.2	.4	.7	.0		1	0
5994.5	5995.5	A	4.3	267	1.1	342	95	9.5	9.2	.2	.8	.1		1	0
5995.0	5996.0	D	34.1	102	1.1	342	95	9.5	9.2	-2.8			-3.4	1	3
5995.5	5996.5	D	16.1	348	1.1	341	94	9.5	9.2	-.9	.8			1	4
5996.0	5997.0	D	21.1	339	1.1	341	94	9.5	9.2	-.9	1.6			1	4
5996.5	5997.5	D	18.5	217	1.1	341	94	9.5	9.1		1.8		-.3	1	2
5997.5	5998.5	D	26.6	205	1.1	340	93	9.5	9.1	2.9			-1.1	1	3
5998.0	5999.0	B	3.8	191	1.1	339	93	9.5	9.1	.5	.2	-.4		1	0
5998.5	5999.5	B	5.2	216	1.1	339	92	9.5	9.1	.5	.5	-.5		1	0
5999.0	6000.0	A	4.9	216	1.1	339	92	9.5	9.1	.4	.5	-.5		1	0
5999.5	6000.5	B	3.3	178	1.1	339	92	9.4	9.1	.1	.0	-.4		1	0
6000.0	6001.0	A	1.3	186	1.1	339	91	9.4	9.1	.2	.1	.0		1	0
6000.5	6001.5	B	1.0	179	1.1	338	91	9.4	9.1	.1	.1	.0		1	0
6001.0	6002.0	C	6.3	237	1.1	338	91	9.4	9.0	1.1	.9	-.4		1	0
6001.5	6002.5	B	25.5	256	1.1	338	90	9.4	9.0	2.4	4.4	-.9		1	0
6002.0	6003.0	A	5.3	298	1.1	338	90	9.3	9.0	.3	.8	.6		1	0
6002.5	6003.5	A	3.6	248	1.1	339	90	9.3	9.0	.4	.6	-.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6003.0	6004.0	A	5.0	199	1.1	339	89	9.3	9.0	.0	.3	-.6		1	0
6003.5	6004.5	A	5.1	201	1.1	339	89	9.3	9.0	.0	.4	-.6		1	0
6004.0	6005.0	A	1.5	141	1.1	339	89	9.3	9.0	-.1	-.1	.0		1	0
6004.5	6005.5	A	1.5	146	1.1	339	88	9.3	9.0	-.1	-.1	.0		1	0
6005.0	6006.0	B	5.6	137	1.1	339	88	9.3	9.0	.5	-.5	-.5		1	0
6005.5	6006.5	A	1.6	148	1.1	339	88	9.3	9.0	.0	-.1	.0		1	0
6006.0	6007.0	A	.8	144	1.1	339	87	9.3	9.0	.0	.0	.1		1	0
6006.5	6007.5	A	.9	133	1.1	339	87	9.3	9.0	.1	.0	.1		1	0
6007.0	6008.0	B	4.9	239	1.1	339	87	9.3	9.0	.9	.8	-.2		1	0
6007.5	6008.5	B	5.2	234	1.1	338	86	9.3	9.0	.8	.8	-.3		1	0
6008.0	6009.0	A	6.7	201	1.1	339	86	9.3	9.0	.7	.5	-.8		1	0
6008.5	6009.5	A	6.4	190	1.1	339	86	9.3	9.0	.6	.3	-.8		1	0
6009.0	6010.0	A	1.5	157	1.1	340	85	9.3	9.0	-.1	.0	-.1		1	0
6009.5	6010.5	D	21.9	343	1.1	340	85	9.3	9.0	-1.5	.8			1	4
6010.0	6011.0	B	12.5	19	1.1	340	84	9.3	9.0	-2.0	-.8	2.0		1	0
6012.0	6013.0	C	13.7	160	1.1	341	84	9.3	9.0	1.2	-.5	-1.9		1	0
6012.5	6013.5	B	15.5	169	1.1	340	84	9.3	9.0		-.2		-1.2	1	2
6013.0	6014.0	B	17.9	179	1.1	339	84	9.3	9.0		.3		-1.2	1	2
6013.5	6014.5	D	13.1	189	1.1	339	83	9.3	9.0		.6		-.6	1	2
6014.0	6015.0	B	14.3	166	1.1	340	83	9.3	9.0	1.5	-.3	-2.1		1	0
6014.5	6015.5	A	14.9	167	1.1	341	83	9.3	9.0	1.2	-.2	-2.2		1	0
6015.0	6016.0	A	17.7	178	1.1	341	83	9.3	9.0	1.8	.3	-2.7		1	0
6015.5	6016.5	C	15.0	179	1.1	342	83	9.3	9.1	1.3	.3			1	4
6016.0	6017.0	C	15.6	155	1.1	343	84	9.3	9.1	.7			-1.5	1	3
6016.5	6017.5	A	10.5	205	1.1	342	84	9.3	9.1	1.2	.9	-1.3		1	0
6017.0	6018.0	A	4.6	170	1.1	342	84	9.3	9.1	1.0	.0	-.6		1	0
6017.5	6018.5	A	4.7	160	1.1	343	83	9.3	9.1	.5	-.1	-.6		1	0
6018.0	6019.0	D	29.8	253	1.1	343	83	9.3	9.1	3.0	3.1		2.2	1	3
6018.5	6019.5	D	18.4	271	1.1	343	83	9.4	9.1	1.8	3.1	.6		1	0
6019.0	6020.0	D	18.5	271	1.1	343	83	9.4	9.1	1.8	3.1	.6		1	0
6019.5	6020.5	D	10.0	256	1.1	344	82	9.4	9.1	1.2	1.7	.0		1	0
6020.0	6021.0	D	24.3	154	1.0	344	82	9.4	9.1	1.2			-2.5	1	3
6020.5	6021.5	D	23.4	171	1.0	343	81	9.4	9.1	1.9			-1.9	1	3
6021.0	6022.0	D	23.1	264	1.0	343	81	9.4	9.1	1.9			2.2	1	3
6021.5	6022.5	D	2.2	113	1.0	343	81	9.4	9.1	.1	-.3	.0		1	0
6022.0	6023.0	D	3.9	97	1.0	343	80	9.4	9.1	-1.2	-.6	.0		1	0
6022.5	6023.5	D	3.8	96	1.0	343	80	9.4	9.0	-.9	-.6	.0		1	0
6023.0	6024.0	D	3.8	97	1.0	343	79	9.4	9.0	.5	-.6	.0		1	0
6023.5	6024.5	D	1.0	153	1.0	342	79	9.4	9.0	-.6	.0	.0		1	0
6024.0	6025.0	D	.6	145	1.0	341	78	9.4	9.0	-.3	.0	.1		1	0
6024.5	6025.5	D	4.3	151	1.0	340	78	9.4	9.0	.5	-.2	-.5		1	0
6025.0	6026.0	D	23.9	119	1.1	339	77	9.4	9.0		-3.1		-2.8	1	2
6025.5	6026.5	D	17.9	333	1.1	338	76	9.4	9.0		.7		1.9	1	2
6026.0	6027.0	D	8.7	319	1.1	338	76	9.4	9.0		.7		1.0	1	2
6026.5	6027.5	D	27.0	148	1.1	338	75	9.4	9.1	1.4			-2.8	1	3
6027.0	6028.0	D	29.2	157	1.1	338	74	9.4	9.1	2.1			-2.8	1	3
6027.5	6028.5	D	2.8	232	1.1	337	73	9.4	9.1	-.5	.5	.0		1	0
6028.0	6029.0	D	2.7	89	1.1	336	73	9.4	9.1	-1.2	-.4	.0		1	0
6028.5	6029.5	D	8.9	250	1.1	335	72	9.4	9.1	.1	1.5	.1		1	0
6029.0	6030.0	D	19.0	289	1.1	334	71	9.4	9.1	.4	2.6	2.1		1	0
6029.5	6030.5	C	1.5	345	1.1	333	70	9.4	9.1	.3	.0	.4		1	0
6030.0	6031.0	A	1.7	343	1.1	333	69	9.4	9.1	.5	.0	.4		1	0
6030.5	6031.5	A	2.8	33	1.0	333	68	9.4	9.0	.4	-.4	.4		1	0
6031.0	6032.0	A	1.6	270	1.0	333	67	9.3	9.0	.0	.3	.3		1	0
6031.5	6032.5	A	1.0	302	1.0	333	66	9.3	9.0	.0	.1	.3		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6032.0	6033.0 B	1.4	289	1.0	333	66	9.3	8.9	.0	.2	.3		1	0
6032.5	6033.5 A	2.9	223	1.0	332	64	9.3	8.9	.1	.4	.0		1	0
6033.0	6034.0 A	2.1	196	1.0	332	64	9.3	8.9	.1	.2	-.1		1	0
6033.5	6034.5 A	5.4	238	1.0	332	63	9.3	8.9	.5	.9	.1		1	0
6034.0	6035.0 A	4.5	259	1.0	333	62	9.3	8.9	.3	.7	.3		1	0
6034.5	6035.5 C	8.9	19	.9	333	62	9.3	8.9	-.6	-1.1	1.1		1	0
6035.0	6036.0 D	8.5	33	.9	333	61	9.3	8.9	-.4	-1.2	.8		1	0
6035.5	6036.5 D	24.5	196	.9	333	61	9.3	8.9	2.8	3.0			1	4
6036.0	6037.0 C	9.2	219	.9	334	60	9.3	8.9	.6	1.4	-.4		1	0
6036.5	6037.5 B	3.8	185	.9	334	60	9.3	9.0	.3			.0	1	3
6037.0	6038.0 A	5.9	245	.9	334	60	9.3	9.0	.3	.9	.2		1	0
6037.5	6038.5 A	9.4	252	.9	334	59	9.3	9.0	.5	1.5	.5		1	0
6038.0	6039.0 A	12.4	245	.9	334	59	9.3	9.0	1.3	2.0	.4		1	0
6038.5	6039.5 A	1.9	221	.9	333	58	9.3	9.0	.2	.3	.1		1	0
6039.0	6040.0 A	.6	240	.9	333	58	9.3	9.0	.1	.1	.1		1	0
6039.5	6040.5 A	3.3	286	.9	334	57	9.3	9.0	.0	.3	.5		1	0
6040.0	6041.0 A	7.0	226	.9	334	57	9.3	9.0	.4	1.1	-.1		1	0
6040.5	6041.5 A	4.4	235	.9	334	57	9.3	9.0	.2	.7	.1		1	0
6041.0	6042.0 A	5.2	242	.9	334	56	9.3	9.0	.2	.8	.2		1	0
6041.5	6042.5 A	4.2	265	.9	335	56	9.3	9.0	-.1	.6	.5		1	0
6042.0	6043.0 A	1.2	255	.9	336	55	9.3	9.0	-.2	.2	.2		1	0
6042.5	6043.5 A	7.5	255	.9	336	55	9.3	9.0	.4	1.1	.5		1	0
6043.0	6044.0 A	5.2	267	.8	336	54	9.3	9.0	.1	.7	.6		1	0
6043.5	6044.5 A	1.9	260	.8	336	54	9.3	9.0	.0	.2	.3		1	0
6044.0	6045.0 A	2.9	275	.8	336	53	9.3	9.0	.0	.3	.4		1	0
6044.5	6045.5 A	3.2	276	.8	336	53	9.3	9.0	.1	.4	.5		1	0
6045.0	6046.0 A	1.1	221	.8	335	52	9.3	9.0	-.2	-.1	.0		1	0
6045.5	6046.5 A	1.1	289	.7	335	52	9.4	9.0	.0	.1	.3		1	0
6046.0	6047.0 A	.6	252	.7	335	51	9.4	9.0	-.1	.1	.1		1	0
6046.5	6047.5 A	2.7	287	.7	335	51	9.4	9.0	.2	2.3	3.7		1	0
6047.0	6048.0 C	27.5	251	.7	332	50	9.4	9.0	1.4	4.6			1	4
6047.5	6048.5 B	4.9	200	.7	332	50	9.4	9.0	.5			.2	1	3
6048.0	6049.0 B	1.9	159	.7	333	49	9.4	9.0	.1			-.1	1	3
6048.5	6049.5 C	3.1	223	.7	332	48	9.4	9.0	.2	.5	.1		1	0
6049.0	6050.0 B	2.4	171	.7	332	48	9.4	9.0	-.2	.2	-.2		1	0
6049.5	6050.5 B	2.5	295	.7	332	47	9.4	9.0	-.2	.1	.5		1	0
6050.0	6051.0 A	1.6	243	.7	333	47	9.4	9.0	.2	.2	.2		1	0
6050.5	6051.5 A	2.4	231	.7	334	46	9.4	9.0	.2	.4	.1		1	0
6051.0	6052.0 A	2.2	255	.7	334	46	9.4	9.0	.0	.3	.3		1	0
6051.5	6052.5 A	3.6	246	.6	334	45	9.4	9.0	.2	.5	.3		1	0
6052.0	6053.0 A	4.9	248	.6	334	45	9.4	9.0	.2	.7	.4		1	0
6052.5	6053.5 A	3.7	252	.6	333	44	9.4	9.0	.1	.5	.4		1	0
6053.0	6054.0 B	3.1	268	.6	332	43	9.4	9.0	.0	.3	.4		1	0
6053.5	6054.5 A	2.8	249	.6	333	43	9.4	9.1	.1	.4	.3		1	0
6054.0	6055.0 A	3.1	244	.6	334	42	9.4	9.1	.2	.4	.3		1	0
6054.5	6055.5 A	2.2	223	.6	335	42	9.4	9.1	.1	.3	.1		1	0
6055.0	6056.0 A	1.9	225	.6	335	41	9.4	9.1	.0	.3	.1		1	0
6055.5	6056.5 A	3.7	209	.6	336	40	9.4	9.1	.2	.5	.0		1	0
6056.0	6057.0 A	2.0	226	.6	337	39	9.4	9.1	.2	.3	.1		1	0
6056.5	6057.5 A	10.6	249	.6	338	38	9.4	9.1	.4	1.5	1.0		1	0
6057.0	6058.0 B	5.5	252	.6	338	37	9.4	9.1	.2	.7	.6		1	0
6057.5	6058.5 A	4.7	256	.6	338	37	9.4	9.1	.1	.5	.6		1	0
6058.0	6059.0 A	4.1	257	.6	339	35	9.4	9.1	-.1	.4	.5		1	0
6058.5	6059.5 B	3.9	257	.7	338	35	9.3	9.1	-.1	.4	.5		1	0
6059.0	6060.0 A	4.4	247	.7	336	34	9.3	9.1	.0	.5	.5		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6059.5	6060.5	A	4.4	246	.6	335	33	9.3	9.1	.0	.5	.5		1	0
6060.0	6061.0	A	4.8	261	.6	334	31	9.3	9.1	.6	.5	.7		1	0
6060.5	6061.5	A	2.3	254	.6	335	31	9.3	9.1	.3	.2	.3		1	0
6061.0	6062.0	A	4.8	238	.6	336	29	9.3	9.1	.2	.6	.4		1	0
6061.5	6062.5	A	4.2	251	.6	337	28	9.3	9.1	.0	.4	.5		1	0
6062.0	6063.0	A	4.1	260	.6	337	26	9.3	9.1	-.1	.3	.6		1	0
6062.5	6063.5	A	4.9	259	.5	337	25	9.3	9.1	-.1	.4	.7		1	0
6063.0	6064.0	A	5.8	255	.5	335	23	9.3	9.1	.0	.5	.8		1	0
6063.5	6064.5	A	4.3	251	.5	334	22	9.3	9.1	-.1	.4	.6		1	0
6064.0	6065.0	A	4.1	252	.5	334	20	9.3	9.1	-.1	.4	.6		1	0
6064.5	6065.5	A	1.0	260	.5	335	19	9.3	9.1	-.1	.0	.2		1	0
6065.0	6066.0	B	3.3	269	.5	335	18	9.3	9.2	-.2			.3	1	3
6065.5	6066.5	B	5.4	254	.5	335	18	9.3	9.2	-.2			.6	1	3
6066.0	6067.0	A	5.5	269	.4	333	17	9.2	9.2	-.2	.2	.9		1	0
6066.5	6067.5	A	5.6	268	.4	333	16	9.2	9.2	-.2	.2	.9		1	0
6067.0	6068.0	C	10.0	210	.4	334	16	9.2	9.1	-.1	1.5	.4		1	0
6067.5	6068.5	C	5.2	239	.4	335	15	9.2	9.1	-.4	.6	.6		1	0
6068.0	6069.0	C	5.1	263	.5	335	14	9.2	9.1	-.3	.2			1	4
6068.5	6069.5	B	14.0	274	.5	333	14	9.2	9.1	-.8	.4	2.3		1	0
6069.0	6070.0	C	12.5	119	.4	327	14	9.2	9.1		.5		-.7	1	2
6069.5	6070.5	C	31.9	157	.4	326	13	9.2	9.0	3.9			.7	1	3
6070.0	6071.0	A	2.0	165	.4	332	13	9.2	8.9	-.1	.2	-.1		1	0
6070.5	6071.5	A	4.6	246	.4	337	13	9.2	8.9	-.1	.4	.6		1	0
6071.0	6072.0	B	6.6	253	.4	336	12	9.2	8.9	.3	.5	.9		1	0
6071.5	6072.5	D	10.2	118	.4	332	12	9.2	8.9	1.0	.4			1	4
6072.0	6073.0	A	10.9	132	.4	327	11	9.2	8.9	1.4	.9	-1.4		1	0
6072.5	6073.5	[illegible]	8.5	277	.4	327	11	9.1	8.9		.0		.7	1	2
6073.0	6074.0	A	13.7	276	.4	331	10	9.1	8.9	-.1	.1	2.2		1	0
6073.5	6074.5	A	19.8	264	.4	334	10	9.1	8.9	-1.2	.8	3.1		1	0
6074.0	6075.0	B	9.8	243	.4	341	9	9.1	8.9	.2		1.3		1	0
6074.5	6075.5	B	26.9	286	.3	343	8	9.1	8.9	-2.6	-.7			1	4
6075.0	6076.0	C	13.5	87	.3	348	8	9.1	8.9	.8	-.4			1	4
6075.5	6076.5	A	7.2	289	.3	349	7	9.1	8.9	-.4	-.3	1.1		1	0
6076.0	6077.0	C	14.8	276	.3	352	6	9.2	8.9	-.4	-.1	2.4		1	0
6076.5	6077.5	A	14.0	276	.3	353	6	9.2	8.8	-1.6	-.1	2.2		1	0
6077.0	6078.0	B	5.0	268	.3	341	5	9.2	8.8	-.3	.1	.8		1	0
6077.5	6078.5	C	20.5	98	.3	341	5	9.2	8.8	1.7	.2			1	4
6078.0	6079.0	C	5.1	206	.3	341	5	9.2	8.9		.7		.5	1	2
6078.5	6079.5	A	10.3	275	.3	341	4	9.2	8.9	-1.8	-.1	1.6		1	0
6079.0	6080.0	A	13.2	264	.3	341	4	9.2	8.9	-1.4	.3	2.1		1	0
6079.5	6080.5	A	8.7	257	.3	341	4	9.2	9.0	-.3	.4	1.3		1	0
6080.0	6081.0	A	10.4	253	.2	341	4	9.2	9.0	-.2	.6	1.6		1	0
6080.5	6081.5	A	9.3	266	.2	341	4	9.1	9.0	-.9	.2	1.5		1	0
6081.0	6082.0	D	7.0	328	.2	341	4	9.1	9.0	-.8	-.9			1	4
6081.5	6082.5	B	21.0	245	.2	341	4	9.2	9.0	-.2	1.6	3.0		1	0
6082.0	6083.0	A	17.5	242	.3	341	3	9.2	9.0	-.7	1.5	2.4		1	0
6082.5	6083.5	D	3.0	238	.3	341	3	9.3	9.0	-.5	.2	.4		1	0
6083.0	6084.0	A	7.6	247	.3	341	3	9.3	9.0	-.9	.5	1.1		1	0
6083.5	6084.5	A	3.6	247	.3	342	3	9.3	9.0	-.4	.2	.5		1	0
6084.5	6085.5	D	5.6	264	.3	360	2	9.3	9.0	-.4			.5	1	3
6085.0	6086.0	D	6.2	181	.2	360	2	9.3	9.0	.8	1.0	.0		1	0
6085.5	6086.5	D	2.2	180	.2	360	2	9.3	9.0	-.5	.3	.0		1	0
6086.0	6087.0	D	10.2	103	.2	360	2	9.3	9.0	.6	.3	-1.6		1	0
6086.5	6087.5	D	5.9	253	.2	360	2	9.3	9.0	.6	.3	.9		1	0
6087.0	6088.0	D	4.6	105	.3	360	2	9.3	9.0	1.4	.1	-.7		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL	CORR. GRADE		DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6087.5	6088.5	D	4.5	102	.3	360	2	9.3	9.0	1.4	.1	-.7		1	0
6088.0	6089.0	D	14.8	104	.3	360	2	9.3	9.0	1.4	.5			1	4
6088.5	6089.5	D	35.9	277	.5	360	2	9.3	9.0		-.7		2.9	1	2
6089.0	6090.0	D	13.7	111	.3	360	1	9.3	9.0		.7		-.7	1	2
6089.5	6090.5	D	10.0	100	.2	360	1	9.3	9.0		.2		-.7	1	2
6090.0	6091.0	C	15.9	144	.3	360	0	9.3	9.0	2.2	2.1	-1.5		1	0
6090.5	6091.5	C	3.7	268	.3	360	0	9.3	9.0	-.6	.0	.6		1	0
6091.0	6092.0	C	4.0	148	.3	360	359	9.2	9.0	.4			.1	1	3
6091.5	6092.5	D	14.2	174	.3	7	359	9.2	9.0	.2	2.3	-.2		1	0
6092.0	6093.0	C	19.0	115	.2	20	358	9.2	9.0	2.1			-.7	1	3
6092.5	6093.5	C	17.5	168	.2	20	358	9.2	9.0	2.4	2.8	-.5		1	0
6093.0	6094.0	D	12.1	225	.2	20	358	9.2	9.0		1.3		1.4	1	2
6093.5	6094.5	D	14.4	24	.2	20	357	9.2	9.0	.3	-2.1	-1.1		1	0
6094.0	6095.0	A	4.0	93	.3	21	357	9.2	9.0	.1	.0	-.6		1	0
6094.5	6095.5	A	2.7	39	.4	23	356	9.2	8.9	-.1	-.4	-.3		1	0
6095.0	6096.0	B	13.8	145	.4	21	356	9.1	8.9	1.5	1.9			1	4
6095.5	6096.5	B	33.3	59	.4	20	357	9.1	8.8	1.1	-2.9			1	4
6096.0	6097.0	A	5.0	175	.3	21	358	9.1	8.8	.7	.8	-.1		1	0
6096.5	6097.5	B	8.9	219	.3	20	358	9.1	8.9	.1			1.0	1	3
6097.0	6098.0	A	11.4	226	.3	20	359	9.1	8.9	.0	1.2	1.3		1	0
6097.5	6098.5	A	12.0	222	.3	20	359	9.1	9.0	.0	1.4	1.3		1	0
6098.0	6099.0	A	7.6	216	.3	20	358	9.1	9.0	.3	.9	.7		1	0
6098.5	6099.5	A	3.1	222	.3	20	358	9.1	8.9	.0	.3	.3		1	0
6099.0	6100.0	D	34.5	100	.3	20	358	9.1	8.9	3.6	1.2			1	4
6099.5	6100.5	A	5.4	188	.2	20	358	9.2	8.9	.2	.8	.1		1	0
6100.0	6101.0	A	5.5	189	.3	20	357	9.1	8.9	.3	.8	.2		1	0
6100.5	6101.5	A	5.1	190	.3	20	357	9.2	8.9	.3	.8	.2		1	0
6101.0	6102.0	A	4.4	192	.3	20	357	9.2	8.9	.3	.8	.2		1	0
6101.5	6102.5	A	4.5	200	.3	22	357	9.2	8.9	.2	.8	.3		1	0
6102.0	6103.0	A	6.4	211	.3	23	356	9.2	8.9	.3	.8	.5		1	0
6102.5	6103.5	A	6.3	204	.3	25	356	9.2	8.9	.3	.8	.4		1	0
6103.0	6104.0	A	4.7	198	.3	24	356	9.2	8.9	.2	.6	.3		1	0
6103.5	6104.5	A	4.5	190	.3	24	356	9.2	8.9	.2	.7	.1		1	0
6104.0	6105.0	A	4.7	183	.3	24	356	9.2	8.9	.2	.7	.1		1	0
6104.5	6105.5	A	5.6	203	.3	25	356	9.2	8.9	.2	.8	.4		1	0
6105.0	6106.0	A	4.1	202	.3	26	356	9.2	8.9	.2	.5	.2		1	0
6105.5	6106.5	A	6.5	206	.3	22	356	9.1	8.9	.3	.9	.5		1	0
6106.0	6107.0	A	2.7	186	.3	22	356	9.1	8.9	.3	.4	.1		1	0
6106.5	6107.5	A	2.7	189	.3	22	356	9.1	8.9	.3	.4	.1		1	0
6107.0	6108.0	A	6.3	229	.3	22	357	9.1	8.9	-.1	.6	.8		1	0
6107.5	6108.5	A	6.3	233	.3	22	357	9.1	8.9	-.2	.5	.8		1	0
6108.0	6109.0	A	5.3	237	.3	22	358	9.1	8.9	-.2	.4	.7		1	0
6108.5	6109.5	A	4.8	243	.3	25	358	9.1	8.9	-.1	.3	.7		1	0
6109.0	6110.0	A	2.2	237	.3	26	359	9.1	8.9	.4	.1	.3		1	0
6109.5	6110.5	A	9.6	207	.4	26	360	9.1	8.9	.0	1.3	.7		1	0
6110.0	6111.0	A	7.7	193	.4	25	0	9.1	8.9	.4	1.1	.2		1	0
6110.5	6111.5	A	2.7	314	.4	22	1	9.0	8.9	.0	-.3	.3		1	0
6111.0	6112.0	A	2.6	324	.4	21	2	9.0	8.9	.0	-.4	.2		1	0
6111.5	6112.5	A	.7	250	.4	24	3	9.0	8.9	.0	.0	.1		1	0
6112.0	6113.0	A	.4	242	.4	23	3	9.0	8.9	.2	.0	.0		1	0
6112.5	6113.5	A	5.7	213	.4	24	4	9.0	8.9	.1	.7	.4		1	0
6113.0	6114.0	B	5.5	217	.4	23	4	9.0	8.9	.1	.7	.4		1	0
6113.5	6114.5	C	2.4	195	.4	22	5	9.0	8.9	.2	.3	.0		1	0
6114.0	6115.0	B	2.8	158	.4	22	6	9.0	8.9	.2	.3	-.2		1	0
6114.5	6115.5	B	2.2	186	.5	19	8	9.0	8.9	.2	.3	.0		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6115.0	6116.0	D	1.8	210	.5	19	9	9.1	8.9	.4	.2	.1		1	0
6115.5	6116.5	A	7.4	201	.5	20	11	9.1	8.8	.5	1.1	.2		1	0
6116.0	6117.0	A	4.6	196	.5	19	14	9.1	8.8	.3	.7	.0		1	0
6116.5	6117.5	A	6.2	226	.5	16	17	9.1	8.8	.1	.8	.5		1	0
6117.0	6118.0	A	6.9	221	.5	14	20	9.1	8.8	.3	.9	.4		1	0
6117.5	6118.5	A	9.2	166	.6	10	26	9.1	8.7	.8	1.0	-.9		1	0
6118.0	6119.0	C	7.2	162	.7	8	31	9.2	8.8		.7		-.1	1	2
6118.5	6119.5	A	3.7	254	.7	8	37	9.2	8.8	.3	.4	.4		1	0
6119.0	6120.0	D	29.0	300	.7	8	39	9.2	8.9		.7		2.8	1	2
6119.5	6120.5	D	23.8	97	.7	8	41	9.2	8.9		-2.4		-2.8	1	2
6120.0	6121.0	D	30.9	225	.7	7	41	9.2	8.9	2.5			2.9	1	3
6120.5	6121.5	D	23.9	101	.6	5	41	9.2	8.9		-2.1		-2.7	1	2
6121.0	6122.0	D	25.2	357	.6	4	41	9.2	8.9	-3.1	-3.2			1	4
6121.5	6122.5	A	16.5	235	.7	4	41	9.2	8.9	.3	2.6	.7		1	0
6122.0	6123.0	A	1.3	201	.7	5	42	9.2	8.8	-.1	.1	.0		1	0
6122.5	6123.5	A	2.7	210	.7	6	43	9.2	8.8	.1	.3	.0		1	0
6123.0	6124.0	A	3.4	179	.7	7	44	9.1	8.8	.2	.3	-.3		1	0
6123.5	6124.5	A	3.0	215	.7	7	45	9.1	8.8	.2	.4	.0		1	0
6124.0	6125.0	A	4.2	238	.7	7	45	9.1	8.8	.2	.6	.2		1	0
6124.5	6125.5	B	3.5	234	.7	9	45	9.1	8.8	.2	.5	.2		1	0
6125.0	6126.0	A	3.6	272	.7	10	45	9.1	8.8	.0	.3	.5		1	0
6125.5	6126.5	A	4.1	237	.7	11	44	9.1	8.8	-.2	.2	.6		1	0
6126.0	6127.0	A	2.9	278	.7	10	43	9.1	8.8	.2	.2	.4		1	0
6126.5	6127.5	A	3.9	256	.7	7	43	9.1	8.7	.0	.4	.4		1	0
6127.0	6128.0	A	2.5	243	.7	6	42	9.1	8.7	-.1	.3	.2		1	0
6127.5	6128.5	A	3.5	211	.8	7	42	9.1	8.7	.2	.4	.0		1	0
6128.0	6129.0	A	5.8	198	.8	9	41	9.1	8.7	.8	.7	-.3		1	0
6128.5	6129.5	A	2.4	202	.8	11	41	9.1	8.7	.1	.2	-.1		1	0
6129.0	6130.0	A	1.0	185	.8	12	40	9.1	8.7	-.1	.0	.0		1	0
6129.5	6130.5	A	2.8	150	.8	13	40	9.1	8.7	-.3	.0	-.4		1	0
6130.0	6131.0	A	4.5	164	.8	15	39	9.1	8.7	-.3	.3	-.5		1	0
6130.5	6131.5	A	5.9	227	.8	15	38	9.1	8.7	.1	.8	.2		1	0
6131.0	6132.0	A	1.3	256	.8	16	38	9.1	8.7	.1	.1	.2		1	0
6131.5	6132.5	A	3.1	248	.8	18	38	9.1	8.7	.2	.3	.3		1	0
6132.0	6133.0	A	2.3	226	.8	17	37	9.1	8.7	.2	.3	.1		1	0
6132.5	6133.5	A	2.8	216	.8	16	37	9.1	8.7	.3	.3	.0		1	0
6133.0	6134.0	A	3.9	246	.8	15	37	9.1	8.7	.1	.4	.3		1	0
6133.5	6134.5	A	6.4	282	.8	14	37	9.1	8.7	-.4	.3	.9		1	0
6134.0	6135.0	A	4.8	285	.8	14	37	9.1	8.6	-.4	.2	.7		1	0
6134.5	6135.5	A	3.1	226	.8	15	36	9.1	8.6	.1	.4	.1		1	0
6135.0	6136.0	A	1.6	223	.8	15	36	9.1	8.6	-.1	.1	.1		1	0
6135.5	6136.5	A	3.8	232	.8	15	35	9.1	8.6	.3	.5	.2		1	0
6136.0	6137.0	A	3.0	218	.8	16	34	9.1	8.6	.2	.4	.1		1	0
6136.5	6137.5	A	4.1	238	.7	17	32	9.1	8.6	.2	.5	.3		1	0
6137.0	6138.0	C	4.0	233	.7	17	32	9.1	8.6	.1	.5	.2		1	0
6137.5	6138.5	A	2.8	197	.7	17	30	9.1	8.5	.3	.3	-.1		1	0
6138.0	6139.0	C	15.7	210	.8	19	29	9.1	8.5	.2	2.4	.1		1	0
6138.5	6139.5	D	12.6	206	.8	20	28	9.1	8.5	.2	1.9	-.1		1	0
6139.0	6140.0	B	2.6	77	.8	20	27	9.1	8.5	-.5	-.4	-.3		1	0
6139.5	6140.5	B	2.8	84	.8	20	26	9.1	8.5	-.3	-.4	-.3		1	0
6140.0	6141.0	A	1.9	176	.8	20	25	9.1	8.5	.1	.1	-.1		1	0
6140.5	6141.5	A	3.4	85	.8	21	25	9.1	8.5	.0	-.4	-.4		1	0
6141.0	6142.0	A	26.3	75	.8	24	24	9.2	8.6	-.4	-3.0	-3.3		1	0
6141.5	6142.5	D	35.2	83	.8	26	24	9.2	8.6	.9			-4.3	1	3
6142.0	6143.0	C	15.6	167	.7	27	24	9.2	8.5	1.3	1.9	-1.4		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6142.5	6143.5	C	36.4	339	.7	26	25	9.2	8.5	-4.7	-4.9			1	4
6143.0	6144.0	A	2.7	268	.6	25	26	9.2	8.5	-.2	.1	.4		1	0
6143.5	6144.5	A	4.0	260	.6	24	26	9.2	8.5	.1	.3	.5		1	0
6144.0	6145.0	A	2.4	230	.6	26	26	9.1	8.5	-.1	.3	.1		1	0
6144.5	6145.5	A	2.2	13	.6	29	26	9.1	8.5	-.2	-.4	.1		1	0
6145.0	6146.0	A	1.6	284	.7	30	26	9.1	8.5	-.3	-.1	.2		1	0
6145.5	6146.5	A	2.8	199	.7	31	26	9.1	8.5	.0	.3	-.1		1	0
6146.0	6147.0	A	4.1	210	.6	33	27	9.1	8.5	.4	.5	.0		1	0
6146.5	6147.5	A	1.6	226	.6	34	27	9.1	8.5	.1	.1	.1		1	0
6147.0	6148.0	C	6.4	251	.6	37	27	9.1	8.5	-.2	.6	.6		1	0
6147.5	6148.5	A	4.1	192	.6	36	27	9.1	8.5	.0	.5	-.2		1	0
6148.0	6149.0	B	8.7	30	.6	30	28	9.1	8.5	-.2	-1.5	.0		1	0
6148.5	6149.5	C	12.6	258	.6	27	29	9.1	8.6	.0	1.2	1.4		1	0
6149.0	6150.0	B	12.1	235	.6	24	29	9.1	8.6	.3	1.7	.8		1	0
6149.5	6150.5	A	1.4	345	.6	25	30	9.1	8.6	.0	-.3	.2		1	0
6150.0	6151.0	A	2.3	250	.6	28	30	9.1	8.6	.1	.2	.2		1	0
6150.5	6151.5	A	5.9	206	.6	29	30	9.1	8.5	.6	.8	-.1		1	0
6151.0	6152.0	A	1.6	209	.6	27	30	9.1	8.5	-.1	.2	.0		1	0
6151.5	6152.5	A	.9	219	.6	27	30	9.1	8.5	-.3	.0	.0		1	0
6152.0	6153.0	A	3.6	260	.8	27	30	9.1	8.5	.2	.2	.4		1	0
6152.5	6153.5	C	2.5	245	.9	29	29	9.1	8.5	.0	.2	.2		1	0
6153.0	6154.0	A	.8	235	.8	34	28	9.1	8.5	-.1	.0	.0		1	0
6153.5	6154.5	A	.2	36	.7	36	28	9.1	8.5	-.1	-.1	.0		1	0
6154.0	6155.0	D	4.5	141	.6	38	28	9.1	8.5	.3	.2	-.6		1	0
6154.5	6155.5	C	4.1	130	.6	37	28	9.1	8.5	.4	.0	-.6		1	0
6155.0	6156.0	A	3.8	229	.7	37	27	9.2	8.5	.1	.4	.2		1	0
6155.5	6156.5	A	5.6	168	.8	37	27	9.2	8.5	.7	.6	-.6		1	0
6156.0	6157.0	D	7.4	260	.8	34	27	9.1	8.5	-.2	.8	.0		1	0
6156.5	6157.5	C	7.5	266	.8	35	26	9.1	8.5	-.1	.1	1.1		1	0
6157.0	6158.0	C	3.9	157	.9	32	28	9.1	8.5		.2		-.1	1	2
6157.5	6158.5	B	2.2	183	.9	32	28	9.1	8.5		.2		.0	1	2
6158.0	6159.0	D	29.2	74	.9	32	28	9.1	8.5	-.1			-3.6	1	3
6158.5	6159.5	D	36.1	76	.8	33	29	9.1	8.5	.5	-4.6	-4.6		1	0
6159.0	6160.0	D	4.0	153	.8	36	29	9.1	8.5	.5	.2	-.5		1	0
6159.5	6160.5	B	1.7	196	.8	38	28	9.1	8.5	.2	.1	-.1		1	0
6160.0	6161.0	A	2.7	195	.8	40	28	9.1	8.5	.4	.3	-.1		1	0
6160.5	6161.5	A	2.9	218	.9	39	28	9.1	8.5	.3	.3	.1		1	0
6161.0	6162.0	A	2.3	208	.9	38	28	9.0	8.5	.0	.2	.0		1	0
6161.5	6162.5	B	4.4	31	.9	36	27	9.0	8.6	-.1	-.8	-.1		1	0
6162.0	6163.0	A	1.1	40	.8	34	27	9.0	8.6	.3	-.3	-.1		1	0
6162.5	6163.5	B	2.5	286	.8	32	26	9.0	8.6		-.1		.2	1	2
6163.0	6164.0	C	23.8	156	.8	35	25	9.0	8.6	2.3	2.4	-2.9		1	0
6163.5	6164.5	B	25.9	156	.9	37	25	9.0	8.6	2.4	2.8	-3.2		1	0
6164.0	6165.0	A	3.7	207	.9	37	26	9.0	8.6	.4	.5	.0		1	0
6164.5	6165.5	A	1.4	201	.9	36	26	9.0	8.6	.1	.1	.0		1	0
6165.0	6166.0	A	1.2	200	.9	34	27	9.0	8.6	.0	.1	.0		1	0
6165.5	6166.5	A	1.4	192	.9	34	27	9.0	8.6	.1	.1	-.1		1	0
6166.0	6167.0	A	4.3	168	.9	34	26	9.0	8.6	.4	.4	-.4		1	0
6166.5	6167.5	A	5.0	154	.9	33	26	9.0	8.6	.3	.3	-.6		1	0
6167.0	6168.0	C	14.5	155	.9	32	26	9.0	8.6	1.5	1.3			1	4
6167.5	6168.5	B	22.3	154	.8	32	25	9.0	8.6	2.5	2.1			1	4
6168.0	6169.0	A	4.9	128	.8	33	25	9.0	8.6	.2	.0	-.7		1	0
6168.5	6169.5	C	6.6	198	.8	35	25	9.0	8.6	.0	.9	-.2		1	0
6169.0	6170.0	A	7.7	205	.9	36	26	9.0	8.6	.5	1.1	.0		1	0
6169.5	6170.5	A	7.3	212	.9	37	26	9.0	8.6	.5	1.0	.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6170.0	6171.0	A	3.7	233	.9	37	26	9.0	8.6	.1	.4	.2		1	0
6170.5	6171.5	A	3.4	192	.9	36	26	9.0	8.6	.1	.4	-.2		1	0
6171.0	6172.0	A	5.8	137	.9	34	26	9.0	8.6	.5	.2	-.8		1	0
6171.5	6172.5	A	4.7	151	.9	33	26	8.9	8.5	.2	.3	-.6		1	0
6172.0	6173.0	A	3.2	220	.8	32	25	8.9	8.5	-.2	.3	.1		1	0
6172.5	6173.5	A	2.0	168	.8	31	25	8.9	8.5	.2	.1	-.2		1	0
6173.0	6174.0	A	2.2	176	.8	31	26	9.0	8.5	.3	.2	-.2		1	0
6173.5	6174.5	A	3.5	272	.8	32	26	9.0	8.5	-.2	.1	.5		1	0
6174.0	6175.0	A	5.8	266	.9	33	26	9.0	8.5	-.3	.3	.7		1	0
6174.5	6175.5	A	6.6	235	.9	33	26	8.9	8.5	-.1	.8	.5		1	0
6175.0	6176.0	A	6.2	214	.9	33	26	8.9	8.5	.3	.8	.1		1	0
6176.0	6177.0	D	4.6	213	.9	33	26	8.9	8.4	-.1	.6	.1		1	0
6176.5	6177.5	D	5.5	113	.9	33	27	8.9	8.4	-.1	-.2	-.8		1	0
6177.0	6178.0	B	1.2	250	.9	31	28	8.9	8.3	-.1			.1	1	3
6177.5	6178.5	A	2.8	145	.9	30	29	8.9	8.3	.1	.0	-.4		1	0
6178.0	6179.0	A	10.3	189	.9	28	32	8.9	8.3	1.0	1.4	-.6		1	0
6178.5	6179.5	A	10.3	196	.9	27	33	8.9	8.4	.7	1.4	-.4		1	0
6179.0	6180.0	D	10.7	69	1.0	26	35	8.9	8.5	-.3			-1.2	1	3
6179.5	6180.5	D	3.4	44	1.0	26	35	8.9	8.6	-.3			-.4	1	3

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5750.5	5751.5	B	2.7	238	1.3	19	165	9.8	9.5	.1	.0	-.3		1	0
5751.0	5752.0	B	3.3	279	1.3	18	164	9.8	9.5	.3	.4	-.4		1	0
5751.5	5752.5	D	2.4	6	1.3	17	163	9.8	9.5		.6		.4	1	2
5752.0	5753.0	D	5.5	344	1.3	16	162	9.8	9.5	.5			.6	1	3
5752.5	5753.5	B	2.5	1	1.3	16	162	9.8	9.5	.6	.6	.3		1	0
5753.0	5754.0	C	1.8	4	1.3	17	161	9.8	9.5	.4	.5	.2		1	0
5753.5	5754.5	C	2.3	357	1.3	16	160	9.8	9.5	.5	.6	.2		1	0
5754.0	5755.0	D	24.2	192	1.3	15	159	9.8	9.5	.2	-3.5	-2.2		1	0
5754.5	5755.5	D	6.1	55	1.3	15	159	9.8	9.5		.4		.8	1	2
5755.0	5756.0	C	3.4	69	1.3	15	158	9.8	9.5		.2		.4	1	2
5755.5	5756.5	C	2.1	87	1.3	15	157	9.8	9.5	.1	.0	.5		1	0
5756.0	5757.0	B	.5	95	1.3	15	157	9.8	9.5	.2	.1	.2		1	0
5756.5	5757.5	C	.7	25	1.3	15	156	9.8	9.5	.2	.2	.2		1	0
5757.0	5758.0	D	1.8	350	1.3	15	155	9.8	9.5	.0	.5	.2		1	0
5757.5	5758.5	C	3.3	117	1.3	14	154	9.8	9.5	-.4			.1	1	3
5758.0	5759.0	D	14.9	62	1.3	14	154	9.8	9.5	-.3	.3	2.7		1	0
5758.5	5759.5	C	5.4	29	1.3	14	153	9.8	9.5	-.1	.7			1	4
5759.0	5760.0	C	2.9	239	1.3	13	152	9.8	9.5	-.3	.1	-.3		1	0
5759.5	5760.5	D	1.3	217	1.3	13	151	9.8	9.5	-.2	.1	-.1		1	0
5761.0	5762.0	C	2.5	119	1.3	11	149	9.8	9.5	-.3	-.2	.4		1	0
5761.5	5762.5	D	21.9	3	1.3	12	147	9.8	9.5	-.1	3.4	2.4		1	0
5762.0	5763.0	D	27.5	276	1.3	12	147	9.8	9.6		3.4		-.2	1	2
5762.5	5763.5	D	2.6	181	1.3	12	145	9.8	9.6	.4	-.2	-.1		1	0
5763.0	5764.0	B	3.1	162	1.3	12	145	9.8	9.6	.1	-.4	.0		1	0
5763.5	5764.5	A	3.0	92	1.3	11	143	9.9	9.6	-.5	-.2	.6		1	0
5764.0	5765.0	C	4.1	71	1.3	10	143	9.9	9.6	-.4	-.1	.8		1	0
5764.5	5765.5	B	4.3	60	1.3	10	142	9.9	9.6	-.3	.0	.9		1	0
5765.0	5766.0	D	2.6	152	1.3	10	141	9.9	9.6	-.3	-.3	.1		1	0
5765.5	5766.5	B	.9	323	1.3	9	140	9.9	9.6	-.4	.3	.2		1	0
5766.0	5767.0	D	13.1	52	1.3	9	140	9.9	9.6	-.7	.1	2.4		1	0
5766.5	5767.5	C	9.7	63	1.3	8	139	9.9	9.7	-2.0	-.3	1.8		1	0
5767.0	5768.0	B	2.9	73	1.3	8	138	9.9	9.7	-.5	-.1	.6		1	0
5768.0	5769.0	A	.5	199	1.3	8	137	10.0	9.7	.1	.1	.1		1	0
5768.5	5769.5	B	1.2	31	1.3	7	136	10.0	9.7	-.1	.2	.4		1	0
5769.0	5770.0	A	2.2	85	1.3	7	135	10.0	9.7	.0	-.1	.5		1	0
5769.5	5770.5	A	1.6	75	1.3	7	134	10.0	9.7	.3	.0	.4		1	0
5770.0	5771.0	A	.9	183	1.3	7	134	10.0	9.7	.0	.0	.1		1	0
5770.5	5771.5	A	1.3	344	1.3	7	133	10.0	9.7	.3	.3	.3		1	0
5771.0	5772.0	A	3.6	134	1.3	7	132	10.0	9.7	-.2	-.5	.2		1	0
5771.5	5772.5	A	2.8	145	1.3	6	131	10.0	9.8	.1	-.3	.1		1	0
5772.0	5773.0	A	3.1	244	1.3	6	130	10.0	9.8	.3	.3	-.3		1	0
5772.5	5773.5	A	2.8	277	1.3	6	129	10.0	9.8	.5	.5	-.1		1	0
5773.0	5774.0	D	3.0	239	1.3	5	129	10.0	9.8	.8	.3	-.3		1	0
5773.5	5774.5	A	1.4	152	1.4	5	128	10.0	9.8	.0	-.1	.1		1	0
5774.0	5775.0	A	1.8	181	1.4	5	128	10.0	9.8	.2	-.1	-.1		1	0
5774.5	5775.5	A	1.6	172	1.3	5	127	10.0	9.8	.1	-.1	.0		1	0
5775.0	5776.0	A	2.6	178	1.3	5	126	10.0	9.8	.2	-.2	-.2		1	0
5775.5	5776.5	A	1.3	1	1.3	6	126	10.0	9.8	.1	.3	.4		1	0
5776.0	5777.0	A	2.3	360	1.3	6	125	10.0	9.8	.0	.4	.5		1	0
5776.5	5777.5	A	6.4	227	1.3	7	124	10.0	9.8	.9	.3	-.9		1	0
5777.0	5778.0	B	1.4	56	1.3	7	124	10.0	9.8	-.2	.0	.4		1	0
5777.5	5778.5	A	6.0	31	1.4	7	123	10.0	9.9	-.6	.1	1.2		1	0
5778.0	5779.0	C	8.1	18	1.4	6	122	10.0	10.0	-.8	.4	1.6		1	0
5778.5	5779.5	B	1.6	44	1.4	5	122	10.0	10.0	-.2	.0	.5		1	0
5779.0	5780.0	A	2.1	11	1.4	5	122	10.0	10.0	-.2	.2	.5		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5779.5	5780.5 A	2.8	82	1.3	4	122	10.0	9.8	-.4	-.3	.5		1	0
5780.0	5781.0 A	1.8	77	1.3	4	121	10.0	9.8	-.1	-.1	.4		1	0
5780.5	5781.5 A	5.7	139	1.3	4	121	9.9	9.7	-.3	-.8	-.1		1	0
5781.0	5782.0 A	6.0	75	1.3	4	121	9.9	9.7	-.2	-.6	.9		1	0
5781.5	5782.5 A	4.5	46	1.3	3	121	9.9	9.7	-.6	-.1	.9		1	0
5782.0	5783.0 A	2.9	118	1.3	3	121	9.9	9.7	-.1	-.4	.2		1	0
5782.5	5783.5 A	3.2	125	1.3	3	120	9.9	9.7	-.4	-.5	.2		1	0
5783.0	5784.0 A	2.6	128	1.3	3	120	9.9	9.7	-.3	-.3	.1		1	0
5783.5	5784.5 A	1.4	156	1.3	3	120	9.9	9.6	.0	-.1	.1		1	0
5784.0	5785.0 A	.9	57	1.3	3	120	9.9	9.6	.1	.0	.3		1	0
5784.5	5785.5 A	1.8	153	1.3	2	120	9.9	9.6	-.2	-.2	.0		1	0
5785.0	5786.0 B	2.0	165	1.3	2	120	9.9	9.6	-.2	-.1	.0		1	0
5785.5	5786.5 C	12.3	58	1.3	2	120	9.9	9.6	-1.1	-.9	2.0		1	0
5786.0	5787.0 C	12.8	58	1.3	2	120	9.9	9.6	-1.0	-.9	2.1		1	0
5786.5	5787.5 C	11.4	228	1.3	2	120	9.9	9.6	1.2			-.5	1	3
5787.0	5788.0 D	16.4	109	1.3	1	120	9.9	9.6	-.9	-2.7	.7		1	0
5787.5	5788.5 D	26.6	212	1.3	1	120	9.8	9.6		.2		-2.2	1	2
5788.0	5789.0 D	33.2	198	1.3	1	120	9.8	9.6	2.3			-3.5	1	3
5788.5	5789.5 D	20.6	287	1.3	1	121	9.8	9.6	2.2			1.5	1	3
5789.0	5790.0 D	9.4	204	1.3	1	121	9.8	9.6		-.1		-.7	1	2
5789.5	5790.5 D	29.5	219	1.3	1	121	9.8	9.5	3.0			-2.1	1	3
5790.0	5791.0 D	29.4	219	1.3	1	121	9.8	9.5	3.0			-2.1	1	3
5790.5	5791.5 D	36.8	204	1.3	0	121	9.8	9.5	3.0	-.7			1	4
5791.0	5792.0 D	24.2	11	1.3	0	121	9.8	9.5	-1.3			2.9	1	3
5791.5	5792.5 D	19.8	113	1.3	0	121	9.7	9.4	-2.0			-1.3	1	3
5792.0	5793.0 D	28.7	14	1.3	0	121	9.7	9.4	-1.7	1.7			1	4
5792.5	5793.5 C	12.4	354	1.3	0	122	9.7	9.4	.7	1.4	1.8		1	0
5793.0	5794.0 A	7.9	350	1.3	0	122	9.7	9.4	.1	1.0	1.2		1	0
5793.5	5794.5 A	4.8	6	1.3	360	122	9.6	9.4	-.4	.5	.9		1	0
5794.0	5795.0 A	4.7	9	1.3	360	122	9.6	9.4	-.4	.4	.9		1	0
5794.5	5795.5 A	.3	352	1.3	360	122	9.6	9.3	.1	.1	.2		1	0
5795.0	5796.0 A	2.4	144	1.3	360	122	9.6	9.3	-.2	-.3	.0		1	0
5795.5	5796.5 A	2.5	107	1.3	0	122	9.6	9.3	-.1	-.3	.3		1	0
5796.0	5797.0 A	2.2	101	1.3	0	121	9.5	9.3	.1	-.2	.3		1	0
5796.5	5797.5 C	7.6	75	1.3	360	121	9.5	9.2	-.7	-.8	1.1		1	0
5797.0	5798.0 A	9.1	68	1.3	360	121	9.5	9.2	-.7	-.8	1.4		1	0
5797.5	5798.5 A	6.2	88	1.3	359	121	9.5	9.2	-.6	-.8	.7		1	0
5798.0	5799.0 A	11.4	350	1.3	358	121	9.5	9.2	.4	1.4	1.6		1	0
5798.5	5799.5 A	7.4	77	1.3	358	121	9.5	9.2	-.6	-.8	1.0		1	0
5799.0	5800.0 A	6.9	84	1.3	358	120	9.5	9.2	-.6	-.8	.8		1	0
5799.5	5800.5 B	5.1	326	1.3	358	120	9.5	9.2	.2	.9			1	4
5800.0	5801.0 B	5.1	222	1.2	358	120	9.4	9.2	.5			-.2	1	3
5800.5	5801.5 B	12.0	176	1.2	358	120	9.4	9.1	.4	-1.0	-1.5		1	0
5801.0	5802.0 A	6.3	60	1.2	358	119	9.4	9.1	-.6	-.4	1.0		1	0
5801.5	5802.5 A	5.0	63	1.2	358	119	9.4	9.1	-.6	-.4	.8		1	0
5802.5	5803.5 B	12.2	24	1.2	358	119	9.3	9.0	-.8	.3	2.1		1	0
5803.0	5804.0 A	7.8	62	1.2	358	119	9.2	8.9	-1.8	-.6	1.2		1	0
5804.5	5805.5 D	28.1	45	1.2	356	121	9.1	8.9		-1.1		1.8	1	2
5805.0	5806.0 A	13.5	161	1.2	356	122	9.1	8.9	.1	-1.6	-1.2		1	0
5805.5	5806.5 B	16.5	137	1.2	356	122	9.1	8.9	-1.5	-2.5	-.5		1	0
5806.0	5807.0 B	5.2	197	1.2	356	123	9.1	8.9	-.6	-.1	-.6		1	0
5806.5	5807.5 C	13.9	116	1.2	356	123	9.1	8.8		-2.1		-.8	1	2
5807.0	5808.0 B	7.6	64	1.2	356	124	9.1	8.8	-1.0	-.5	1.2		1	0
5807.5	5808.5 A	7.6	54	1.2	356	124	9.1	8.8	-1.2	-.3	1.3		1	0
5808.0	5809.0 A	.3	135	1.2	357	124	9.1	8.8	.0	.1	.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5808.5	5809.5	A	1.6	25	1.2	357	124	9.1	8.8	-.2	.2	.4		1	0
5809.0	5810.0	A	9.3	326	1.3	356	124	9.1	8.8	-.2	1.5	.7		1	0
5809.5	5810.5	A	5.8	305	1.3	356	125	9.1	8.8	-.4	1.0	.2		1	0
5810.0	5811.0	B	2.2	197	1.3	357	127	9.1	8.9	-.1	.0	-.2		1	0
5810.5	5811.5	D	2.7	97	1.3	358	127	9.1	8.9	.2	-.2	.4		1	0
5811.0	5812.0	A	15.5	249	1.3	359	129	9.1	8.9	1.0	1.4	-2.0		1	0
5811.5	5812.5	B	9.3	338	1.3	359	129	9.1	8.9	.9	1.4	.9		1	0
5812.0	5813.0	C	8.0	280	1.2	358	129	9.2	8.8	.1	1.3	-.4		1	0
5812.5	5813.5	D	7.9	327	1.2	358	129	9.2	8.8	.2	1.3	.5		1	0
5813.0	5814.0	C	8.7	72	1.2	358	128	9.2	8.8	-.4	-.7	1.3		1	0
5813.5	5814.5	D	19.9	117	1.2	358	128	9.2	8.8	-2.7	-3.1	.7		1	0
5814.0	5815.0	B	12.0	53	1.2	359	128	9.2	8.9	-1.1	-.4	2.0		1	0
5814.5	5815.5	B	10.5	74	1.2	0	128	9.2	8.9	-1.3	-.9	1.5		1	0
5815.0	5816.0	B	9.3	189	1.2	3	128	9.4	9.1	.1	-.6	-1.1		1	0
5815.5	5816.5	B	13.7	3	1.2	3	128	9.4	9.2	-.3			1.7	1	3
5816.0	5817.0	C	9.9	99	1.2	1	129	9.5	9.2	-.8	-1.3	.9		1	0
5816.5	5817.5	D	12.0	124	1.2	359	128	9.4	9.2	-.9	-1.9	.3		1	0
5817.0	5818.0	B	21.3	67	1.2	357	128	9.2	9.0	-2.1	-1.6	3.2		1	0
5817.5	5818.5	C	5.9	106	1.2	357	127	9.2	8.9		-.8		-.1	1	2
5818.0	5819.0	C	4.7	164	1.2	357	126	9.1	8.9	-.1			-.4	1	3
5818.5	5819.5	C	9.4	330	1.2	357	125	9.1	8.9	-.5	1.5	.8		1	0
5819.0	5820.0	C	6.4	125	1.1	359	124	9.1	8.9	-.5	-.9	.1		1	0
5819.5	5820.5	B	11.9	122	1.1	359	123	9.0	8.9	-.4	-1.8	.2		1	0
5820.0	5821.0	B	17.1	118	1.1	358	122	9.0	8.9	-1.1	-2.6	.4		1	0
5820.5	5821.5	C	33.7	99	1.2	357	122	8.9	8.9	-3.9			-1.5	1	3
5821.0	5822.0	A	3.6	184	1.2	354	122	8.9	8.9	-.2	-.2	-.3		1	0
5821.5	5822.5	B	15.2	130	1.2	354	123	9.0	8.9	-.2	-2.3	-.2		1	0
5822.0	5823.0	C	19.4	138	1.1	354	123	9.0	8.8	-.9	-2.9	-.6		1	0
5823.5	5824.5	D	12.9	161	1.1	355	125	9.0	8.7	-.3	-1.6	-1.0		1	0
5824.0	5825.0	B	11.1	220	1.2	355	126	9.0	8.7	.9	.2			1	4
5824.5	5825.5	A	5.9	12	1.2	354	126	9.0	8.7	.0	.5	1.0		1	0
5825.0	5826.0	C	7.8	176	1.2	354	126	9.0	8.8	-.9	-.7	-.8		1	0
5825.5	5826.5	D	20.8	115	1.2	355	126	9.0	8.8	-2.0			-1.2	1	3
5826.0	5827.0	D	31.9	45	1.3	355	125	9.0	8.9	-3.2	-.8			1	4
5826.5	5827.5	D	27.3	51	1.3	356	125	9.0	8.9	-2.9	-1.2			1	4
5827.0	5828.0	B	3.3	73	1.3	357	124	9.0	8.9	-.5	-.2	.6		1	0
5827.5	5828.5	B	3.8	23	1.3	357	123	9.0	8.9	-.3	.2	.7		1	0
5828.0	5829.0	B	10.5	286	1.3	357	121	9.1	8.9	1.8	1.7	-.3		1	0
5828.5	5829.5	D	19.8	258	1.3	356	120	9.1	8.8		2.5		.3	1	2
5829.0	5830.0	D	30.7	87	1.2	354	119	9.1	8.8	-3.7			-.8	1	3
5829.5	5830.5	B	25.2	40	1.2	353	119	9.1	8.8	-2.0	-.7	4.2		1	0
5830.0	5831.0	D	21.8	67	1.2	353	118	9.1	8.8	-1.7	-2.2	2.9		1	0
5830.5	5831.5	D	12.8	136	1.2	353	117	9.1	8.8	-1.6	-1.8	-.5		1	0
5831.0	5832.0	A	10.3	48	1.2	352	115	9.1	8.8	-.5	-.5	1.6		1	0
5831.5	5832.5	C	19.8	96	1.2	351	115	9.1	8.8	-2.1	-3.0			1	4
5832.0	5833.0	B	29.4	339	1.2	350	114	9.0	8.7	-.2	3.7	3.7		1	0
5832.5	5833.5	B	25.2	74	1.3	349	114	9.0	8.8	-3.0			-.2	1	3
5833.0	5834.0	D	18.3	59	1.3	350	115	9.0	8.8	-2.1	-1.5			1	4
5833.5	5834.5	C	17.5	103	1.3	351	115	9.0	8.8	-1.7	-2.6			1	4
5834.0	5835.0	C	30.2	140	1.3	352	116	9.0	8.8	-1.4	-4.6			1	4
5834.5	5835.5	D	14.2	237	1.3	351	117	9.0	8.8	1.5	1.3			1	4
5835.5	5836.5	D	35.0	213	1.2	351	119	9.1	8.8	3.2	.5			1	4
5836.5	5837.5	D	18.5	16	1.1	355	123	9.2	8.8		1.0		2.0	1	2
5837.0	5838.0	D	22.8	212	1.1	355	124	9.2	8.8	1.8			-1.8	1	3
5837.5	5838.5	B	26.2	205	1.1	355	126	9.2	8.9	1.7	-.7			1	4

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5838.0	5839.0	A	7.6	132	1.1	355	127	9.2	8.9	-.3	-1.1	.0		1	0
5838.5	5839.5	A	9.4	123	1.1	355	128	9.2	8.9	-.3	-1.4	.2		1	0
5839.0	5840.0	C	3.7	261	1.2	356	128	9.1	8.9	.4			.1	1	3
5839.5	5840.5	B	15.4	248	1.2	356	128	9.1	8.9	1.7			-.3	1	3
5840.0	5841.0	A	6.7	190	1.1	358	128	9.1	8.9	-.2	-.4	-.8		1	0
5840.5	5841.5	B	4.2	151	1.2	358	128	9.0	8.9	-.2			-.3	1	3
5841.0	5842.0	B	4.7	58	1.2	357	129	9.0	8.9	-.3	-.1	.8		1	0
5841.5	5842.5	D	4.9	51	1.2	356	130	9.0	8.8	-.4	.0	.9		1	0
5842.0	5843.0	C	7.9	157	1.2	356	131	9.0	8.8	-.8	-1.0	-.4		1	0
5842.5	5843.5	C	5.4	72	1.1	357	132	9.0	8.8	-1.3	-.3	.9		1	0
5843.0	5844.0	B	2.5	122	1.1	358	133	9.0	8.8		-.3		.0	1	2
5843.5	5844.5	B	18.2	190	1.1	358	134	9.0	8.8	.4	-1.5			1	4
5844.0	5845.0	B	1.0	17	1.1	357	135	9.0	8.8	.4	.2	.3		1	0
5844.5	5845.5	D	18.5	40	1.1	356	136	9.0	8.8	-.9	.5	3.0		1	0
5845.0	5846.0	D	23.5	23	1.1	356	137	9.0	8.7	-.8	1.7	3.6		1	0
5845.5	5846.5	C	14.0	98	1.2	355	137	9.0	8.7	-1.5	-1.6			1	4
5846.0	5847.0	D	29.0	62	1.2	355	137	9.0	8.7	-2.9	-1.1			1	4
5846.5	5847.5	C	13.0	138	1.2	355	136	9.1	8.7	-1.0			-.9	1	3
5847.0	5848.0	C	19.8	149	1.2	355	135	9.1	8.7	-.6	-3.0	-.6		1	0
5847.5	5848.5	D	3.0	61	1.2	354	133	9.1	8.7	-.3	.0	.5		1	0
5848.0	5849.0	C	5.6	108	1.2	354	133	9.1	8.7	-.5	-.7	.5		1	0
5848.5	5849.5	D	16.6	80	1.2	354	131	9.1	8.7	-1.9			.3	1	3
5849.0	5850.0	D	15.3	290	1.2	355	131	9.1	8.7	.8	2.5	-.7		1	0
5849.5	5850.5	D	27.6	214	1.2	356	129	9.1	8.8	2.1			-2.3	1	3
5850.0	5851.0	C	7.7	103	1.2	356	127	9.1	8.8	-.8			-.2	1	3
5850.5	5851.5	D	23.5	147	1.2	355	125	9.1	8.8		-3.5		-2.4	1	2
5851.0	5852.0	D	17.3	262	1.2	354	124	9.1	8.8	2.0	2.2			1	4
5851.5	5852.5	D	3.3	92	1.2	355	124	9.1	8.8	-.4			.0	1	3
5852.0	5853.0	C	2.9	281	1.2	356	124	9.1	8.9	-.4	.5	.0		1	0
5852.5	5853.5	A	3.4	308	1.2	357	124	9.1	8.9	.1	.7	.2		1	0
5853.0	5854.0	C	15.4	26	1.2	357	125	9.1	8.9	-.5	.5	2.6		1	0
5853.5	5854.5	D	16.1	337	1.3	355	125	9.1	8.8	.4			1.9	1	3
5854.0	5855.0	C	25.2	82	1.2	354	126	9.1	8.8		-3.0		.0	1	2
5854.5	5855.5	B	21.8	152	1.2	354	126	9.1	8.8	-1.3	-3.1	-1.4		1	0
5855.0	5856.0	A	18.2	126	1.2	355	126	9.1	8.8	-1.8	-2.9	.2		1	0
5856.0	5857.0	D	9.1	259	1.2	355	128	9.1	8.7	.9	1.1	-.9		1	0
5856.5	5857.5	D	21.1	42	1.2	356	129	9.1	8.7	-1.8			1.8	1	3
5857.0	5858.0	C	31.5	56	1.2	356	130	9.1	8.7	-3.4			1.9	1	3
5857.5	5858.5	A	6.5	258	1.2	357	131	9.1	8.7	.2	.8	-.7		1	0
5858.0	5859.0	A	7.7	249	1.2	357	131	9.1	8.7	.5	.7	-.9		1	0
5858.5	5859.5	B	24.1	10	1.2	358	132	9.1	8.7	-.5	2.3	3.5		1	0
5859.5	5860.5	C	32.1	135	1.2	358	131	9.1	8.7	-2.6			-2.9	1	3
5860.0	5861.0	B	29.9	133	1.2	357	130	9.1	8.7	-2.5			-2.6	1	3
5860.5	5861.5	C	27.2	253	1.2	356	129	9.1	8.7	3.1	2.7			1	4
5861.0	5862.0	B	7.4	151	1.2	356	128	9.1	8.7	-.4	-1.0	-.3		1	0
5861.5	5862.5	D	14.6	280	1.2	354	128	9.1	8.7	.7	2.2	-.9		1	0
5862.0	5863.0	D	13.1	280	1.2	354	127	9.1	8.7	.9	2.0	-.8		1	0
5862.5	5863.5	D	12.9	72	1.2	354	127	9.1	8.7	-.6	-1.1	1.8		1	0
5863.0	5864.0	D	11.6	65	1.2	353	127	9.1	8.7	-.8	-.8	1.7		1	0
5863.5	5864.5	B	18.9	62	1.2	353	126	9.1	8.7	-2.0	-1.2	2.8		1	0
5864.0	5865.0	C	20.9	69	1.1	352	126	9.1	8.7	-2.3			.6	1	3
5864.5	5865.5	A	6.0	276	1.1	351	126	9.1	8.7	.1	1.0	-.3		1	0
5865.0	5866.0	B	22.3	236	1.2	353	125	9.1	8.7		1.4		-.9	1	2
5865.5	5866.5	C	24.1	72	1.2	355	125	9.0	8.7	-2.8	-2.3			1	4
5866.0	5867.0	B	14.5	257	1.2	355	126	9.0	8.7		1.7		.1	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5866.5	5867.5	B	31.2	234	1.1	353	126	9.0	8.7	3.3	1.8			1	4
5867.0	5868.0	A	5.2	271	1.1	351	127	9.0	8.8	1.4	.8	-.3		1	0
5867.5	5868.5	D	28.1	3	1.1	350	127	9.0	8.8	-.6	2.9			1	4
5868.0	5869.0	C	14.4	111	1.1	351	127	9.0	8.8	-1.1	-2.1	.8		1	0
5868.5	5869.5	D	31.2	273	1.1	353	128	9.0	8.7	4.6	4.6	-2.9		1	0
5869.0	5870.0	D	30.4	273	1.1	354	128	9.0	8.7	3.3	4.5	-2.8		1	0
5869.5	5870.5	C	16.9	249	1.1	354	127	9.0	8.7	1.8			-.3	1	3
5870.0	5871.0	D	22.1	159	1.1	353	127	9.0	8.7	-1.2	-3.0	-1.7		1	0
5870.5	5871.5	D	26.2	264	1.2	353	126	9.1	8.7	3.1			.3	1	3
5871.0	5872.0	B	7.6	239	1.2	353	126	9.1	8.7	1.5	.6	-.9		1	0
5871.5	5872.5	A	15.5	233	1.2	353	125	9.1	8.7	1.7	.9	-2.2		1	0
5872.0	5873.0	A	7.9	219	1.2	353	125	9.1	8.7	.8	.2	-1.1		1	0
5872.5	5873.5	C	31.4	5	1.2	352	125	9.0	8.7	-1.0	2.9			1	4
5873.0	5874.0	B	22.8	13	1.2	351	124	9.0	8.7	-1.0	1.5			1	4
5873.5	5874.5	C	1.4	312	1.2	350	124	9.0	8.8	.8	.4	.2		1	0
5874.0	5875.0	B	2.4	223	1.2	350	123	9.0	8.8	.2	.2	-.2		1	0
5874.5	5875.5	A	5.8	250	1.1	350	122	9.0	8.8	.6	.7	-.6		1	0
5875.0	5876.0	A	9.6	257	1.1	350	121	9.0	8.8	1.0	1.2	-.9		1	0
5875.5	5876.5	D	3.3	56	1.1	350	120	9.1	8.8	-.3	-.1			1	4
5876.0	5877.0	D	6.0	162	1.2	350	120	9.1	8.7	-.1	-.6			1	4
5876.5	5877.5	B	26.3	197	1.2	352	122	9.1	8.7	1.5	-1.0			1	4
5877.0	5878.0	B	19.9	193	1.2	354	124	9.1	8.7	1.9	-1.0	-2.8		1	0
5877.5	5878.5	B	9.2	258	1.1	358	129	9.1	8.7	1.0			.1	1	3
5878.0	5879.0	D	6.1	84	1.1	359	133	9.1	8.7	-.9	-.5	.8		1	0
5878.5	5879.5	B	26.9	328	1.1	2	139	9.1	8.7	2.0			2.8	1	3
5879.0	5880.0	A	6.0	110	1.1	3	143	9.0	8.7	-.2	-.7	.6		1	0
5880.0	5881.0	D	16.2	297	1.1	6	146	9.0	8.7	1.8	2.4			1	4
5881.0	5882.0	D	33.0	146	1.2	6	147	9.0	8.6	-3.0			-2.7	1	3
5881.5	5882.5	C	30.5	143	1.2	7	149	9.0	8.6	-2.9			-2.2	1	3
5882.0	5883.0	C	20.0	179	1.1	6	150	9.0	8.5	-1.6	-2.7	-1.4		1	0
5883.0	5884.0	D	31.3	248	1.1	6	152	9.0	8.6	2.9			-2.2	1	3
5883.5	5884.5	C	18.8	237	1.1	7	152	9.0	8.6	1.5	-.1	-2.8		1	0
5884.0	5885.0	D	31.4	90	1.1	8	152	9.1	8.6	-3.6	-2.4			1	4
5884.5	5885.5	D	13.9	213	1.1	8	153	9.1	8.6	.4			-1.4	1	3
5885.0	5886.0	D	12.7	136	1.1	7	154	9.1	8.6	-1.2			-.6	1	3
5885.5	5886.5	D	27.3	352	1.1	6	153	9.2	8.6	1.6			3.1	1	3
5886.0	5887.0	C	7.0	29	1.1	2	151	9.2	8.6	.1	.8	1.0		1	0
5886.5	5887.5	C	9.2	27	1.1	360	150	9.2	8.7	-.1	1.0	1.3		1	0
5887.0	5888.0	D	32.9	53	1.1	356	148	9.1	8.7	-2.5	.7			1	4
5887.5	5888.5	D	26.1	79	1.1	356	148	9.1	8.7	-2.8	-1.5			1	4
5888.5	5889.5	D	36.5	218	1.1	358	148	9.1	8.7	1.9	-2.0			1	4
5889.0	5890.0	D	29.8	61	1.1	1	148	9.1	8.7	-2.6	-.1			1	4
5889.5	5890.5	C	34.3	60	1.1	2	148	9.1	8.7	-3.1	-.1			1	4
5890.0	5891.0	B	11.0	345	1.1	3	147	9.1	8.8	.0	1.9	.6		1	0
5890.5	5891.5	C	22.2	281	1.1	3	147	9.1	8.8		2.7		.1	1	2
5891.0	5892.0	C	21.2	263	1.1	3	145	9.1	8.8		1.8		-.6	1	2
5891.5	5892.5	C	17.7	266	1.1	3	144	9.1	8.8		1.7		-.3	1	2
5892.5	5893.5	D	32.7	45	1.1	0	138	9.1	8.8	-2.7	.5			1	4
5893.0	5894.0	D	14.8	245	1.1	360	137	9.1	8.7	1.5	.9			1	4
5893.5	5894.5	C	27.4	183	1.1	359	137	9.1	8.7	.0	-3.1			1	4
5894.0	5895.0	C	25.3	45	1.1	359	137	9.1	8.7	-2.0			2.3	1	3
5894.5	5895.5	B	30.7	262	1.1	358	137	9.1	8.7	3.7			-.4	1	3
5895.0	5896.0	B	23.7	56	1.1	358	139	9.2	8.8	-2.2	-.3			1	4
5895.5	5896.5	A	8.8	62	1.1	358	140	9.2	8.8	-1.1	-.1	1.4		1	0
5896.0	5897.0	A	9.9	103	1.1	359	144	9.2	8.9	-1.1	-1.1	1.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	DIA NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5896.5	5897.5	A	11.8	92	1.0	360	145	9.2	9.0	-1.1	-1.0	1.6		1	0
5897.0	5898.0	A	2.5	40	1.0	359	147	9.2	9.0	-.1	.3	.5		1	0
5897.5	5898.5	A	9.7	89	1.0	359	147	9.3	9.1	-.6	-.7	1.4		1	0
5898.0	5899.0	A	1.7	191	1.0	359	147	9.3	9.1	.2	-.1	-.1		1	0
5898.5	5899.5	B	7.0	229	1.0	359	147	9.4	9.1	.2	.0	-1.0		1	0
5899.0	5900.0	A	1.5	158	1.0	359	146	9.4	9.0	-.1	-.1	.0		1	0
5899.5	5900.5	C	3.9	124	1.1	359	146	9.4	9.0	-.1	-.4	.3		1	0
5900.0	5901.0	B	8.3	347	1.1	359	146	9.4	9.0	.4			1.0	1	3
5900.5	5901.5	B	2.9	79	1.1	359	145	9.4	9.0	-.3			.2	1	3
5901.0	5902.0	A	8.1	147	1.1	359	145	9.4	9.0	-.6	-1.2	.0		1	0
5901.5	5902.5	A	9.2	158	1.1	359	144	9.4	9.0	-.2	-1.3	-.2		1	0
5902.0	5903.0	C	31.2	142	1.1	359	143	9.4	9.0	-2.9			-2.6	1	3
5902.5	5903.5	C	29.2	226	1.1	358	143	9.4	9.0	2.2			-2.7	1	3
5903.0	5904.0	C	2.6	220	1.1	358	142	9.4	9.0	.2	.1			1	4
5903.5	5904.5	A	3.0	177	1.1	358	142	9.4	9.0	.0	-.3	-.2		1	0
5904.0	5905.0	A	11.4	157	1.1	357	141	9.4	9.0	-.1	-1.7	-.4		1	0
5904.5	5905.5	D	16.5	147	1.1	357	140	9.4	9.0		-2.6		-1.4	1	2
5905.0	5906.0	A	4.3	62	1.2	358	139	9.4	9.0	.0	.0	.8		1	0
5905.5	5906.5	A	10.3	208	1.2	358	138	9.4	9.0	-.1	-.5	-1.4		1	0
5906.0	5907.0	B	7.3	211	1.2	358	137	9.4	9.0	.6	-.2	-1.0		1	0
5906.5	5907.5	A	13.6	220	1.2	358	137	9.4	9.0	.3	-.1	-2.0		1	0
5907.0	5908.0	B	21.3	204	1.2	357	136	9.4	9.0	.9	-1.2			1	4
5907.5	5908.5	B	11.5	213	1.2	357	135	9.4	9.0	.7			-1.0	1	3
5908.0	5909.0	B	22.1	187	1.2	357	135	9.3	8.9	.8	-2.1	-2.7		1	0
5908.5	5909.5	C	12.8	169	1.2	357	134	9.3	8.9		-1.6		-1.3	1	2
5909.0	5910.0	D	28.8	164	1.2	356	134	9.2	8.9	-1.0			-3.2	1	3
5909.5	5910.5	D	11.4	304	1.2	356	134	9.2	8.8	1.1			.9	1	3
5910.0	5911.0	A	4.7	176	1.2	356	135	9.2	8.8	.1	-.4	-.4		1	0
5910.5	5911.5	A	3.9	99	1.2	355	135	9.2	8.9	.2	-.4	.5		1	0
5911.0	5912.0	C	10.7	330	1.2	355	135	9.2	8.9	.6			1.2	1	3
5911.5	5912.5	C	9.3	212	1.2	355	134	9.2	8.8	.5	-.2	-1.3		1	0
5912.0	5913.0	A	20.0	176	1.2	355	133	9.1	8.8	.1	-2.3	-2.0		1	0
5912.5	5913.5	B	12.4	200	1.2	355	131	9.1	8.8	.1	-.6	-1.7		1	0
5913.0	5914.0	C	8.1	148	1.2	354	128	9.1	8.8		-1.1		-.7	1	2
5913.5	5914.5	C	10.6	117	1.2	353	126	9.1	8.8	-1.0	-1.6			1	4
5914.0	5915.0	A	17.6	161	1.2	352	124	9.1	8.8	-.9	-2.2	-1.6		1	0
5914.5	5915.5	A	18.6	161	1.2	352	123	9.1	8.8	-.6	-2.3	-1.7		1	0
5915.0	5916.0	B	16.8	196	1.2	352	124	9.1	8.8	1.1	-.7	-2.4		1	0
5915.5	5916.5	B	16.9	228	1.2	352	125	9.1	8.8	1.2	.7	-2.5		1	0
5916.0	5917.0	D	22.5	192	1.2	352	128	9.1	8.8	.8	-1.5			1	4
5916.5	5917.5	C	4.2	88	1.2	353	129	9.1	8.8	.5	-.4	.6		1	0
5917.0	5918.0	B	8.6	29	1.2	354	130	9.1	8.8	-.5	.4			1	4
5917.5	5918.5	D	20.6	163	1.2	355	130	9.1	8.8	-.5			-2.2	1	3
5918.0	5919.0	A	18.0	196	1.2	355	130	9.1	8.8	.4	-1.1	-2.5		1	0
5918.5	5919.5	A	18.8	201	1.2	356	131	9.1	8.9	.7	-.9	-2.7		1	0
5919.0	5920.0	B	7.6	14	1.2	356	131	9.1	8.9	-.9	.7	1.2		1	0
5919.5	5920.5	B	5.1	12	1.2	356	132	9.1	8.9	-.8	.5	.8		1	0
5920.0	5921.0	B	19.4	188	1.2	357	133	9.2	9.0	.0	-1.7	-2.5		1	0
5920.5	5921.5	B	3.5	133	1.2	357	133	9.2	9.0	.6	-.4	.1		1	0
5921.0	5922.0	B	5.0	144	1.2	357	134	9.2	9.1	.0	-.7	.0		1	0
5921.5	5922.5	A	7.5	122	1.2	356	133	9.2	9.1	-.6	-1.0	.4		1	0
5922.0	5923.0	D	8.6	116	1.1	354	131	9.2	9.1	-.5	-1.2	.5		1	0
5922.5	5923.5	D	7.9	64	1.1	353	129	9.3	9.1	-.5	-.4	1.3		1	0
5923.0	5924.0	D	20.7	204	1.1	352	127	9.3	9.2	1.6	-.7	-3.2		1	0
5924.0	5925.0	B	4.3	36	1.2	354	126	9.2	9.1	.2	.1	.8		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5924.5	5925.5	B	13.9	182	1.2	355	127	9.2	9.1		-1.1		-1.4	1	2
5925.0	5926.0	B	4.0	159	1.2	355	127	9.2	8.9		-.4		-.3	1	2
5925.5	5926.5	B	22.0	100	1.1	353	126	9.2	8.8	-2.5			-.7	1	3
5926.0	5927.0	A	18.6	97	1.1	352	125	9.2	8.8	-1.7	-2.6	1.5		1	0
5926.5	5927.5	A	3.4	181	1.2	349	121	9.3	8.8	-.2	-.1	-.3		1	0
5927.0	5928.0	A	16.2	25	1.2	348	119	9.3	8.8	-1.3	.3	2.7		1	0
5927.5	5928.5	C	9.2	356	1.2	346	112	9.2	8.8	-.4	.7	1.4		1	0
5928.0	5929.0	C	16.8	221	1.2	345	109	9.2	8.8	2.2	1.2	-2.3		1	0
5928.5	5929.5	B	14.9	199	1.1	342	101	9.2	8.8	1.6	.4	-2.2		1	0
5929.0	5930.0	D	4.4	76	1.1	340	99	9.2	8.9		-.6		-.1	1	2
5929.5	5930.5	A	9.3	62	1.1	337	93	9.2	8.9	-.6	-1.2	.9		1	0
5930.0	5931.0	A	6.6	224	1.1	336	91	9.2	8.9	.2	.8	-.6		1	0
5930.5	5931.5	A	1.3	172	1.1	334	87	9.3	9.0	.1	.1	.0		1	0
5931.0	5932.0	A	8.8	30	1.1	332	86	9.3	9.0	-.8	-.7	1.3		1	0
5931.5	5932.5	B	22.3	54	1.1	331	84	9.3	9.0	-2.6	-3.2	2.0		1	0
5932.0	5933.0	D	25.8	56	1.1	331	84	9.3	9.0	-3.3	-3.9	2.2		1	0
5932.5	5933.5	D	27.2	127	1.1	332	84	9.3	9.1	-.2			-3.2	1	3
5933.0	5934.0	D	27.4	95	1.1	332	85	9.3	9.1	-2.0			-2.7	1	3
5933.5	5934.5	D	23.4	20	1.1	332	84	9.3	9.3	-2.8			1.0	1	3
5934.0	5935.0	D	15.9	27	1.1	331	84	9.3	9.3	-1.9			.5	1	3
5934.5	5935.5	C	27.9	118	1.1	330	83	9.3	9.5	-.6			-3.3	1	3
5935.5	5936.5	D	15.7	171	1.0	331	82	9.3	9.5		.0		-1.2	1	2
5936.0	5937.0	C	18.0	25	1.0	332	82	9.3	9.4	-2.2	-1.6			1	4
5936.5	5937.5	B	24.9	52	1.0	332	81	9.3	9.3	-2.9	-3.7	2.3		1	0
5937.0	5938.0	C	23.0	53	1.0	333	81	9.3	9.3	-2.6	-3.5	2.0		1	0
5937.5	5938.5	D	35.0	177	1.0	333	80	9.4	9.2		.8		-2.7	1	2
5938.0	5939.0	D	15.3	184	1.0	334	80	9.4	9.2	.5	.7	-2.3		1	0
5938.5	5939.5	C	33.9	297	1.0	334	80	9.3	9.2	.6			4.5	1	3
5939.0	5940.0	D	30.3	284	1.0	334	80	9.3	9.2	1.3			3.7	1	3
5939.5	5940.5	D	22.0	293	1.0	333	80	9.3	9.2	.5			2.7	1	3
5940.0	5941.0	B	24.3	296	1.0	332	80	9.3	9.2	.4	3.5	2.6		1	0
5940.5	5941.5	C	39.9	335	1.0	332	79	9.4	9.1	-2.8	2.0			1	4
5941.0	5942.0	C	13.9	265	1.0	332	78	9.4	9.1	1.0	2.4			1	4
5941.5	5942.5	D	17.2	66	1.0	333	78	9.4	9.1		-2.8		-1.1	1	2
5942.0	5943.0	D	18.0	53	1.0	332	77	9.5	9.1	-1.7	-2.8	1.4		1	0
5942.5	5943.5	B	2.9	337	1.0	330	77	9.5	9.1	-.2			.4	1	3
5943.0	5944.0	B	11.8	76	1.0	330	77	9.5	9.1	-.2	-1.9	.2		1	0
5943.5	5944.5	B	26.8	213	1.0	331	76	9.5	9.1	3.2			.2	1	3
5944.0	5945.0	A	13.8	217	1.0	331	76	9.4	9.1	.7	1.9	-1.2		1	0
5944.5	5945.5	B	33.0	287	1.0	332	75	9.3	9.1	1.0			4.3	1	3
5945.0	5946.0	B	35.3	311	1.0	333	75	9.3	9.1	-.9			4.7	1	3
5946.0	5947.0	D	23.4	265	1.0	334	75	9.2	9.0	1.6			2.4	1	3
5946.5	5947.5	C	22.8	291	1.0	334	75	9.2	8.9	-.4	3.2	2.4		1	0
5947.0	5948.0	C	24.7	341	1.0	334	75	9.1	8.9	-2.0	.3			1	4
5947.5	5948.5	D	31.3	75	1.0	333	75	9.1	8.8	-2.8			-2.7	1	3
5948.0	5949.0	D	34.3	236	1.0	332	74	9.1	8.8	3.8			2.1	1	3
5949.0	5950.0	D	16.7	323	1.0	330	73	9.1	8.8	-.4	1.0	2.7		1	0
5949.5	5950.5	B	31.3	333	1.0	331	72	9.1	8.8	-2.2	.9	5.5		1	0
5950.0	5951.0	C	21.1	339	1.0	331	72	9.1	8.8	-2.1	.2	3.6		1	0
5951.0	5952.0	D	22.6	23	1.0	334	73	9.1	8.8	-3.1	-2.4	3.0		1	0
5951.5	5952.5	C	5.9	124	1.0	335	75	9.0	8.8		-.6		-.6	1	2
5952.0	5953.0	D	26.7	322	1.1	335	75	9.0	8.8	-1.3	1.8			1	4
5952.5	5953.5	B	20.7	323	1.1	335	75	9.0	8.8	-1.0	1.3			1	4
5953.0	5954.0	B	5.5	113	1.0	333	74	9.0	8.8	-.1	-.6			1	4
5953.5	5954.5	D	22.2	347	1.0	331	72	9.0	8.8	-2.0	-.3			1	4

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5954.0	5955.0	D	38.1	343	.9	329	71	9.0	8.8	-3.7	-.2			1	4
5954.5	5955.5	C	20.9	42	.9	328	70	9.0	8.8		-3.0		-.6	1	2
5955.0	5956.0	B	28.5	36	1.0	329	69	9.0	8.8	-3.8	-4.1	2.8		1	0
5955.5	5956.5	D	32.9	132	1.0	330	68	9.0	8.8		-2.5		-3.7	1	2
5956.0	5957.0	C	21.3	32	1.0	331	67	9.0	8.8	-2.5	-2.9			1	4
5957.0	5958.0	D	10.1	292	1.0	331	68	9.0	8.8	-.1			1.2	1	3
5957.5	5958.5	C	15.8	61	1.0	331	68	9.1	8.8		-2.5		-1.0	1	2
5958.0	5959.0	D	18.7	324	1.0	330	69	9.1	8.8		.8		1.9	1	2
5958.5	5959.5	C	12.9	3	1.0	329	69	9.1	8.8	-1.3	-.8	2.0		1	0
5959.0	5960.0	C	14.8	358	1.0	328	69	9.1	8.8	-1.4	-.8	2.4		1	0
5959.5	5960.5	D	16.4	258	1.0	328	69	9.1	8.8	1.1	2.7			1	4
5960.0	5961.0	D	32.8	305	1.0	329	68	9.1	8.8	-.8	3.3			1	4
5960.5	5961.5	C	31.0	20	1.0	328	67	9.1	8.8	-3.9			.2	1	3
5961.0	5962.0	C	27.9	14	.9	328	67	9.1	8.8	-3.4			.5	1	3
5961.5	5962.5	D	31.2	4	.9	328	66	9.1	8.8	-3.7			1.1	1	3
5962.0	5963.0	D	14.5	111	.9	328	66	9.1	8.8		-1.6		-1.5	1	2
5962.5	5963.5	D	24.3	40	.9	328	65	9.1	8.8		-3.7		-1.0	1	2
5963.0	5964.0	B	16.8	2	.9	327	63	9.1	8.8		-1.3		.6	1	2
5963.5	5964.5	B	16.4	358	.8	325	60	9.2	8.8	-2.4	-1.3	2.4		1	0
5964.0	5965.0	A	21.5	359	.8	323	57	9.3	8.8	-2.6	-1.9	3.1		1	0
5964.5	5965.5	C	16.9	130	.8	322	55	9.4	8.8	.9			-1.6	1	3
5965.0	5966.0	C	6.9	212	.8	321	54	9.4	8.8	.7	1.1			1	4
5965.5	5966.5	B	24.5	12	.8	320	54	9.4	8.9		-3.2		-.2	1	2
5966.0	5967.0	C	25.0	34	.8	320	53	9.4	8.9	-2.8			-1.3	1	3
5966.5	5967.5	D	31.0	21	.8	320	52	9.4	8.9	-3.8			-1.0	1	3
5967.0	5968.0	C	33.6	3	.8	320	52	9.4	8.9	-4.4	-4.2	4.5		1	0
5967.5	5968.5	B	18.0	116	.8	319	50	9.4	8.9	.7	-1.2			1	4
5968.0	5969.0	C	19.7	357	.8	318	46	9.4	8.9	-2.6	-2.2	2.5		1	0
5968.5	5969.5	C	33.3	307	.8	316	44	9.4	8.9	-2.6			3.3	1	3
5969.0	5970.0	C	24.1	19	.8	313	38	9.3	8.9	-2.7			-1.3	1	3
5969.5	5970.5	A	6.8	21	.8	311	35	9.3	8.9	-1.0	-1.1	.4		1	0
5970.0	5971.0	D	12.8	312	.8	307	32	9.2	9.0	-1.3	-.4			1	4
5970.5	5971.5	C	13.1	122	.8	306	31	9.1	9.0	1.5	.0	-2.0		1	0
5971.0	5972.0	D	23.9	50	.8	304	28	9.0	9.1	-1.2			-2.6	1	3
5971.5	5972.5	B	19.9	62	.7	303	26	9.0	9.2	-1.0	-2.6	-1.8		1	0
5972.0	5973.0	B	21.7	63	.6	302	22	9.0	9.2	-.5	-2.7	-2.3		1	0
5972.5	5973.5	A	16.4	71	.6	302	20	9.0	9.2	-.4	-1.7	-2.0		1	0
5973.0	5974.0	A	8.3	35	.5	297	14	9.1	9.2	-.5	-1.3	-.4		1	0
5973.5	5974.5	A	8.6	120	.5	296	10	9.1	9.2	.6	.5	-1.2		1	0
5974.5	5975.5	C	10.3	58	.4	291	2	9.2	9.1	.2			-1.1	1	3
5975.0	5976.0	A	9.0	37	.3	286	359	9.2	9.1	.0	-1.2	-.8		1	0
5975.5	5976.5	B	10.6	32	.3	286	358	9.2	9.1	-.3	-1.4	-.9		1	0
5976.0	5977.0	A	12.4	35	.3	282	355	9.3	9.1	-.1	-1.6	-1.2		1	0
5976.5	5977.5	A	12.9	31	.3	277	354	9.3	9.1	-.1	-1.7	-1.2		1	0
5977.0	5978.0	B	12.8	199	.3	276	352	9.3	9.1	-.4	1.9	1.0		1	0
5977.5	5978.5	B	8.4	206	.3	276	351	9.4	9.1	-.4	1.1	.8		1	0
5978.0	5979.0	C	9.3	187	.2	276	349	9.4	9.1	-.2	1.5	.5		1	0
5978.5	5979.5	A	11.1	29	.2	276	348	9.4	9.0	-.3	-1.4	-1.1		1	0
5979.0	5980.0	B	9.9	20	.2	276	347	9.5	9.0	-.2	-1.4	-.8		1	0
5979.5	5980.5	A	8.3	12	.2	276	346	9.5	9.0	-.5	-1.3	-.5		1	0
5980.0	5981.0	B	12.9	7	.2	276	345	9.4	9.0	-.7	-2.0	-.8		1	0
5980.5	5981.5	A	9.8	8	.2	276	344	9.4	9.0	-.8	-1.5	-.6		1	0
5981.0	5982.0	A	2.5	242	.2	276	343	9.4	9.1	-.6	.1	.4		1	0
5981.5	5982.5	A	.4	333	.2	276	343	9.4	9.1	-.1	-.1	.0		1	0
5982.0	5983.0	A	6.3	73	.2	276	342	9.4	9.1	1.2	.0	-1.0		1	0

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CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5982.5	5983.5	A	1.2	87	.2	276	342	9.4	9.1	.2	.0	-.2		1	0
5983.0	5984.0	B	17.2	216	.3	276	341	9.4	9.1	-.3			2.0	1	3
5983.5	5984.5	A	12.7	355	.3	276	341	9.4	9.1	-1.5	-2.1	-.4		1	0
5984.0	5985.0	C	27.6	116	.3	276	341	9.4	9.1	3.4	3.5			1	4
5984.5	5985.5	B	32.9	80	.3	276	341	9.4	9.1	3.3	.9			1	4
5985.0	5986.0	B	7.9	111	.3	276	341	9.5	9.1		.8		-.1	1	2
5985.5	5986.5	A	.6	200	.3	276	341	9.5	9.1	.0	.1	.1		1	0
5986.0	5987.0	A	.6	190	.3	277	341	9.5	9.1	.2	.1	.1		1	0
5986.5	5987.5	A	3.3	351	.3	278	341	9.5	9.1	-.4	-.6	-.1		1	0
5987.0	5988.0	A	2.7	340	.3	280	341	9.5	9.1	-.1	-.5	.0		1	0
5987.5	5988.5	A	3.7	237	.3	355	341	9.5	9.1	.2	.1	.6		1	0
5988.0	5989.0	A	3.0	271	.3	86	340	9.5	9.1	-.2	-.2	.4		1	0
5988.5	5989.5	A	1.4	304	.3	86	340	9.5	9.2	-.1	-.2	.1		1	0
5989.0	5990.0	A	2.0	281	.3	86	340	9.5	9.2	-.2	-.2	.2		1	0
5989.5	5990.5	A	1.8	245	.3	86	340	9.5	9.2	.1	.0	.2		1	0
5990.0	5991.0	C	14.9	209	.3	86	340	9.5	9.2		1.6		1.7	1	2
5990.5	5991.5	B	13.7	111	.3	86	339	9.5	9.2	1.8	1.6	-1.7		1	0
5991.0	5992.0	A	5.0	294	.3	86	339	9.5	9.2	-.7	-.6	.5		1	0
5991.5	5992.5	B	3.9	265	.3	86	339	9.5	9.2	-.6	-.2	.6		1	0
5992.0	5993.0	B	3.3	241	.3	86	338	9.5	9.2	-.1	.1	.5		1	0
5992.5	5993.5	A	4.4	241	.3	86	338	9.5	9.2	-.1	.1	.7		1	0
5993.0	5994.0	A	5.1	252	.3	86	338	9.5	9.2	-.3	.0	.8		1	0
5993.5	5994.5	A	4.5	243	.3	86	338	9.5	9.2	-.2	.1	.7		1	0
5994.0	5995.0	B	7.6	181	.3	86	337	9.5	9.2	.0	1.2	.5		1	0
5994.5	5995.5	D	4.7	237	.2	86	337	9.5	9.2		.1		.4	1	2
5995.0	5996.0	D	23.9	304	.2	86	336	9.5	9.2	-2.8			-.7	1	3
5996.0	5997.0	D	22.5	165	.2	86	335	9.5	9.2	1.6			2.2	1	3
5996.5	5997.5	D	39.4	38	.2	86	335	9.5	9.2	1.6	-3.6			1	4
5997.0	5998.0	C	2.1	164	.2	86	334	9.4	9.2	-.2	.4	.0		1	0
5997.5	5998.5	C	3.6	200	.2	86	334	9.4	9.1	.0	.4	.4		1	0
5998.0	5999.0	A	3.1	176	.2	86	333	9.4	9.1	.1	.5	.2		1	0
5998.5	5999.5	A	2.1	182	.2	86	333	9.4	9.1	.1	.3	.1		1	0
5999.0	6000.0	A	4.9	241	.2	86	332	9.4	9.1	-.1	.0	.8		1	0
5999.5	6000.5	A	2.1	215	.2	86	332	9.4	9.1	.1	.2	.3		1	0
6000.0	6001.0	C	8.0	248	.1	86	331	9.4	9.1	-.7	-.2			1	4
6000.5	6001.5	B	10.7	216	.1	86	330	9.4	9.1	-.5	.7	1.5		1	0
6001.0	6002.0	C	9.8	272	.1	86	329	9.3	9.1		-.9		.2	1	2
6001.5	6002.5	A	9.2	281	.1	86	329	9.3	9.0	-.4	-1.0	1.1		1	0
6002.0	6003.0	C	35.3	148	.1	86	328	9.3	9.0	3.3			3.3	1	3
6002.5	6003.5	A	1.9	328	.1	86	327	9.3	9.0	-.2	-.3	.0		1	0
6003.0	6004.0	A	1.3	298	.1	86	326	9.3	9.0	.0	-.2	.1		1	0
6003.5	6004.5	A	3.0	351	.1	86	325	9.3	9.0	.0	-.4	-.2		1	0
6004.0	6005.0	A	.2	188	.1	86	323	9.3	9.0	-.1	.0	.0		1	0
6004.5	6005.5	A	1.0	182	.1	86	322	9.3	9.0	.5	.1	.1		1	0
6005.0	6006.0	A	1.6	282	.1	86	320	9.3	9.0	-.3	-.2	.1		1	0
6005.5	6006.5	A	1.9	318	.1	86	319	9.3	9.0	-.3	-.3	.0		1	0
6006.0	6007.0	A	8.4	262	.0	86	317	9.3	9.0	-.9	-.8	1.1		1	0
6006.5	6007.5	A	9.6	233	.0	86	316	9.3	9.0	-.9	-.2	1.5		1	0
6007.0	6008.0	A	9.5	203	.1	86	314	9.3	9.0	.5	.6	1.4		1	0
6007.5	6008.5	A	4.5	208	.1	86	313	9.3	9.0	.3	.2	.7		1	0
6008.0	6009.0	A	3.7	226	.0	86	311	9.3	9.0	-.1	.0	.6		1	0
6008.5	6009.5	A	4.5	254	.0	86	310	9.3	9.0	-.9	-.4	.6		1	0
6009.0	6010.0	B	3.1	144	.1	86	308	9.3	9.0	.2	.5			1	4
6009.5	6010.5	B	15.3	210	.1	86	307	9.3	9.0	-.1	.3	2.4		1	0
6010.0	6011.0	D	32.7	43	.1	86	306	9.3	9.0		.8		-2.5	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6010.5	6011.5	D	13.5	150	.1	86	304	9.3	9.0		2.0		1.5	1	2
6011.0	6012.0	B	31.2	92	.1	86	303	9.3	9.0	3.8			1.0	1	3
6011.5	6012.5	A	23.9	192	.1	86	301	9.3	9.0	-.7	1.4	3.7		1	0
6012.0	6013.0	B	23.4	194	.1	86	300	9.3	9.0	-.8	1.2	3.7		1	0
6012.5	6013.5	B	19.1	208	.1	86	298	9.3	9.0	-.6	.1	3.1		1	0
6013.0	6014.0	B	9.7	276	.1	86	297	9.3	9.0	-1.2	-1.4	.5		1	0
6013.5	6014.5	A	15.5	149	.2	86	296	9.3	9.0	.2	2.2	1.4		1	0
6014.0	6015.0	B	15.9	168	.2	86	295	9.3	9.0	.0	1.6	2.0		1	0
6014.5	6015.5	B	7.3	156	.2	86	293	9.3	9.0	.1			.8	1	3
6015.0	6016.0	C	12.9	248	.2	86	292	9.3	9.0	-1.5			.0	1	3
6015.5	6016.5	C	7.8	163	.3	86	290	9.3	9.0	-.4	.8	1.0		1	0
6016.0	6017.0	B	5.5	198	.3	86	289	9.3	9.0	-.1	.1	.9		1	0
6016.5	6017.5	B	11.1	192	.3	83	288	9.3	9.0		.2		1.0	1	2
6017.0	6018.0	A	2.7	138	.3	82	287	9.3	9.0	1.0	.4	.2		1	0
6017.5	6018.5	D	24.7	195	.3	80	286	9.3	9.1	-2.0	.1			1	4
6018.0	6019.0	D	3.9	108	.4	79	286	9.3	9.1	-.3	.7	.0		1	0
6018.5	6019.5	D	15.8	45	.4	79	285	9.3	9.1		1.4		-.4	1	2
6019.0	6020.0	D	18.9	15	.4	78	284	9.3	9.1		.1		-1.5	1	2
6019.5	6020.5	D	13.2	280	.4	76	283	9.3	9.1	-.5	-2.1	.1		1	0
6020.0	6021.0	D	10.4	106	.4	76	283	9.3	9.1	.9	1.8	.1		1	0
6020.5	6021.5	D	33.8	283	.4	78	282	9.3	9.2	-3.0			-3.1	1	3
6021.0	6022.0	D	22.8	55	.4	79	282	9.3	9.1	2.8	2.7			1	4
6021.5	6022.5	D	14.3	98	.4	79	282	9.3	9.1	.8	2.4	-.2		1	0
6022.0	6023.0	D	14.7	118	.4	78	282	9.3	9.1	.0	2.4	.7		1	0
6022.5	6023.5	D	.6	351	.4	74	281	9.3	9.1	-.9	.0	-.1		1	0
6023.0	6024.0	D	4.0	105	.4	71	281	9.3	9.1	-.5	.7	.0		1	0
6023.5	6024.5	D	5.6	212	.4	66	280	9.3	9.1	-.4	-.3	.8		1	0
6024.0	6025.0	D	5.7	108	.4	65	280	9.3	9.1	-.2	1.0	.1		1	0
6024.5	6025.5	D	3.1	99	.4	67	279	9.3	9.1	-.2	.6	.0		1	0
6025.0	6026.0	D	4.1	280	.4	68	279	9.3	9.1	-.2	-.6	.0		1	0
6025.5	6026.5	D	8.2	34	.4	68	278	9.3	9.1		.6		-.3	1	2
6026.0	6027.0	D	28.3	359	.4	66	278	9.3	9.1	2.1			-2.8	1	3
6026.5	6027.5	D	32.9	7	.4	63	278	9.4	9.1		.0		-3.0	1	2
6027.0	6028.0	D	24.3	177	.5	61	277	9.4	9.1		.8		2.4	1	2
6027.5	6028.5	D	4.1	338	.5	60	277	9.4	9.1	.1	-.3	-.6		1	0
6028.0	6029.0	D	6.0	59	.5	60	276	9.4	9.1	.5	.8	-.6		1	0
6028.5	6029.5	D	4.0	84	.4	56	276	9.4	9.1		.7		.3	1	2
6029.0	6030.0	D	21.7	132	.4	55	276	9.4	9.1		3.1		2.6	1	2
6029.5	6030.5	D	5.9	313	.4	53	275	9.3	9.1	.0			-.7	1	3
6030.0	6031.0	B	9.3	179	.4	54	275	9.3	9.1		.2		.8	1	2
6030.5	6031.5	A	5.1	170	.4	57	274	9.3	9.0	.1	.3	.7		1	0
6031.0	6032.0	A	5.2	265	.4	56	274	9.3	9.0	-.7	-.8	.1		1	0
6031.5	6032.5	B	3.8	263	.4	59	273	9.3	9.0	-.5	-.5	.1		1	0
6032.0	6033.0	A	2.4	179	.4	58	272	9.3	9.0	-.2	.1	.3		1	0
6032.5	6033.5	A	1.9	163	.5	58	271	9.2	9.0	.1	.2	.3		1	0
6033.0	6034.0	B	.9	263	.5	57	270	9.2	9.0	.0			-.1	1	3
6033.5	6034.5	B	3.9	226	.5	56	269	9.2	9.0	-.6	-.4	.4		1	0
6034.0	6035.0	A	3.6	229	.5	56	268	9.2	9.0	-.7	-.4	.3		1	0
6034.5	6035.5	C	17.3	259	.5	57	267	9.2	9.0	-1.3	-2.8	.4		1	0
6035.0	6036.0	B	19.7	248	.5	57	266	9.2	9.0	-2.1	-3.1	1.0		1	0
6035.5	6036.5	C	11.1	208	.6	58	263	9.2	9.0	-1.5	-.9	1.4		1	0
6036.0	6037.0	B	3.7	211	.6	59	263	9.2	9.0	-.6	-.3	.4		1	0
6036.5	6037.5	B	4.5	155	.6	58	262	9.2	9.0	-.4	.3	.6		1	0
6037.0	6038.0	A	10.0	182	.6	58	262	9.2	9.0	.0	-.2	1.5		1	0
6037.5	6038.5	A	4.7	246	.6	57	261	9.2	9.0	-.3	-.7	.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6038.0	6039.0	A	11.9	254	.6	57	260	9.2	9.0	-.5	-1.8	.2		1	0
6038.5	6039.5	A	1.3	210	.6	56	259	9.2	9.0	.0	-.1	.1		1	0
6039.0	6040.0	A	1.5	152	.6	56	259	9.2	9.0	.2	.2	.2		1	0
6039.5	6040.5	A	2.0	337	.6	56	258	9.2	9.0	.3	.0	-.3		1	0
6040.0	6041.0	A	3.4	230	.6	56	258	9.2	9.0	.1	-.4	.2		1	0
6040.5	6041.5	A	3.4	228	.6	55	257	9.2	9.0	-.1	-.4	.2		1	0
6041.0	6042.0	A	3.9	232	.7	55	256	9.2	9.0	-.3	-.5	.2		1	0
6041.5	6042.5	A	4.5	225	.7	54	255	9.2	8.9	-.6	-.5	.3		1	0
6042.0	6043.0	A	3.4	216	.7	55	255	9.2	8.9	-.3	-.3	.3		1	0
6042.5	6043.5	A	2.7	218	.7	56	254	9.2	8.9	-.2	-.2	.2		1	0
6043.0	6044.0	A	4.3	213	.7	56	254	9.2	8.9	-.4	-.4	.4		1	0
6043.5	6044.5	A	2.3	174	.7	57	253	9.2	8.9	.0	.0	.3		1	0
6044.0	6045.0	A	2.1	257	.7	58	253	9.2	9.0	-.1	-.2	.0		1	0
6044.5	6045.5	A	2.1	258	.7	61	252	9.3	9.0	-.1	-.2	-.1		1	0
6045.0	6046.0	A	.7	189	.7	63	252	9.3	9.0	.0	.1	.1		1	0
6045.5	6046.5	A	1.0	148	.7	64	252	9.3	9.0	.2	.2	.1		1	0
6046.0	6047.0	A	1.5	300	.7	63	252	9.3	9.0	-.1	-.1	-.2		1	0
6046.5	6047.5	A	5.3	266	.7	60	252	9.3	9.0	-.2	-.7	-.2		1	0
6047.0	6048.0	A	7.2	209	.7	59	252	9.3	9.0	-1.3	-.8	.7		1	0
6047.5	6048.5	A	27.4	199	.7	56	252	9.3	9.0	-2.9	-2.8	3.7		1	0
6048.0	6049.0	B	21.7	201	.7	55	252	9.3	9.0		-2.2		.3	1	2
6048.5	6049.5	B	5.1	168	.7	56	252	9.3	9.0	-.2	.0	.8		1	0
6049.0	6050.0	B	10.8	96	.7	57	251	9.3	9.0	1.1	1.7	.7		1	0
6049.5	6050.5	D	4.7	225	.7	57	251	9.3	9.0	.0	-.6	.3		1	0
6050.0	6051.0	C	5.3	142	.8	57	251	9.3	9.0	-.1	.4	.8		1	0
6050.5	6051.5	A	4.4	215	.7	57	251	9.3	9.0	-.4	-.5	.4		1	0
6051.0	6052.0	A	3.7	219	.7	57	251	9.3	9.0	-.4	-.4	.3		1	0
6051.5	6052.5	A	3.5	217	.7	57	250	9.3	9.0	-.3	-.4	.3		1	0
6052.0	6053.0	A	3.6	214	.7	57	250	9.3	9.1	-.2	-.4	.3		1	0
6052.5	6053.5	A	2.7	239	.7	57	249	9.3	9.1	-.2	-.3	.1		1	0
6053.0	6054.0	C	5.7	224	.8	57	249	9.4	9.1	-.3	-.7	.4		1	0
6053.5	6054.5	A	3.5	215	.8	57	248	9.4	9.1	-.1	-.4	.3		1	0
6054.0	6055.0	A	3.5	218	.8	56	248	9.4	9.1	-.4	-.4	.3		1	0
6054.5	6055.5	A	6.4	211	.8	55	248	9.4	9.1	-.7	-.7	.6		1	0
6055.0	6056.0	A	4.4	215	.8	53	247	9.3	9.1	-.4	-.5	.3		1	0
6055.5	6056.5	A	3.1	131	.8	52	247	9.3	9.1	.2	.3	.4		1	0
6056.0	6057.0	A	2.6	156	.8	51	247	9.3	9.1	.0	.1	.4		1	0
6056.5	6057.5	B	5.2	237	.8	51	246	9.3	9.1	-.4	-.7	.1		1	0
6057.0	6058.0	B	5.9	281	.8	52	245	9.3	9.1		-.7		-.6	1	2
6057.5	6058.5	C	17.4	32	.9	52	245	9.3	9.1	2.1			.5	1	3
6058.0	6059.0	B	1.5	218	.9	52	245	9.3	9.1	.5	-.1	.1		1	0
6058.5	6059.5	C	3.7	218	.9	51	245	9.3	9.1	-.4	-.4	.2		1	0
6059.0	6060.0	A	3.3	230	.9	50	245	9.3	9.1	-.1	-.4	.1		1	0
6059.5	6060.5	A	2.9	203	.9	49	245	9.3	9.1	.1	-.2	.3		1	0
6060.0	6061.0	B	3.7	213	.9	48	245	9.3	9.1	-.5	-.4	.3		1	0
6060.5	6061.5	A	1.7	218	.9	48	245	9.3	9.1	-.6	-.1	.1		1	0
6061.0	6062.0	A	4.3	234	.9	49	245	9.3	9.1	-.4	-.6	.1		1	0
6061.5	6062.5	A	4.7	236	.9	50	245	9.3	9.0	-.4	-.6	.1		1	0
6062.0	6063.0	A	4.5	231	.8	50	246	9.3	9.0	-.3	-.6	.1		1	0
6062.5	6063.5	A	4.6	227	.8	50	246	9.3	9.0	-.3	-.6	.2		1	0
6063.0	6064.0	A	4.7	234	.8	50	247	9.4	9.0	-.4	-.6	.1		1	0
6063.5	6064.5	A	4.0	235	.8	51	247	9.4	9.0	-.5	-.5	.1		1	0
6064.0	6065.0	A	4.1	208	.8	51	248	9.4	9.0	-.4	-.4	.4		1	0
6064.5	6065.5	A	4.2	219	.8	50	248	9.5	9.0	-.2	-.5	.3		1	0
6065.0	6066.0	C	4.5	229	.8	50	249	9.5	9.0	-.6	-.6	.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6065.5	6066.5	A	6.3	220	.7	51	249	9.5	9.0	-.6	-.8	.4		1	0
6066.0	6067.0	A	5.7	231	.8	52	250	9.5	9.0	-.5	-.8	.3		1	0
6066.5	6067.5	A	4.6	233	.8	53	251	9.4	9.0	-.4	-.6	.2		1	0
6067.0	6068.0	D	6.3	228	.8	51	251	9.4	9.0	-.5	-.8	.4		1	0
6067.5	6068.5	D	8.4	235	.8	50	252	9.4	9.0	-.8	-1.2	.3		1	0
6068.5	6069.5	D	36.8	305	.7	54	252	9.3	9.0	.6			-4.7	1	3
6069.0	6070.0	A	4.7	206	.7	55	252	9.2	8.9	-.6	-.4	.5		1	0
6069.5	6070.5	A	3.8	205	.7	54	252	9.2	8.9	-.4	-.3	.4		1	0
6070.0	6071.0	B	5.7	199	.7	52	253	9.1	8.9	-.6	-.4	.7		1	0
6070.5	6071.5	B	6.9	205	.7	53	253	9.1	8.9	-.8	-.6	.7		1	0
6071.0	6072.0	B	22.0	121	.7	53	253	9.1	8.9	.0	2.6			1	4
6071.5	6072.5	B	7.8	259	.8	53	253	9.1	8.9	-.5			-.6	1	3
6072.0	6073.0	A	2.1	159	.8	53	253	9.1	8.9	.0	.1	.3		1	0
6072.5	6073.5	A	11.3	242	.8	52	253	9.1	8.9	-.7	-1.7	.3		1	0
6073.0	6074.0	B	25.5	252	.8	53	253	9.1	8.9	-2.0	-4.2	.0		1	0
6073.5	6074.5	C	14.3	263	.8	53	254	9.1	8.9	-1.2	-2.2	-.4		1	0
6074.0	6075.0	D	8.3	307	.8	52	254	9.1	8.9	-.1	-.7	-1.1		1	0
6074.5	6075.5	A	5.4	263	.8	51	254	9.1	8.9	-.1	-.7	-.2		1	0
6075.0	6076.0	B	7.1	240	.8	52	254	9.1	8.9	-.5	-1.0	.2		1	0
6075.5	6076.5	A	7.9	243	.8	53	254	9.1	8.9	-.6	-1.1	.2		1	0
6076.0	6077.0	B	5.6	243	.8	56	254	9.1	8.9	-1.3	-.7	.1		1	0
6076.5	6077.5	C	5.1	263	.8	58	254	9.1	8.9		-.7		-.4	1	2
6077.0	6078.0	B	10.4	280	.8	62	254	9.1	8.9	.6	-1.4	-.8		1	0
6077.5	6078.5	A	7.4	263	.8	62	254	9.2	8.9	.3	-1.1	-.2		1	0
6078.0	6079.0	B	10.5	241	.8	60	253	9.2	8.9	-.4	-1.5	.3		1	0
6078.5	6079.5	A	7.5	222	.8	59	253	9.3	8.9	-1.1	-.9	.6		1	0
6079.0	6080.0	A	10.1	228	.8	58	253	9.3	8.9	-1.1	-1.4	.6		1	0
6079.5	6080.5	A	9.7	260	.8	59	253	9.3	8.9	-.1	-1.5	-.2		1	0
6080.5	6081.5	D	5.5	87	.8	60	253	9.2	8.9	.4			.6	1	3
6081.0	6082.0	A	18.3	218	.8	59	253	9.2	8.9	-1.3	-2.4	1.6		1	0
6081.5	6082.5	B	15.9	237	.8	57	253	9.2	9.0	-1.5	-2.4	.7		1	0
6082.0	6083.0	A	3.9	215	.9	56	252	9.2	9.0	.3	-.4	.3		1	0
6082.5	6083.5	A	2.7	231	.9	56	252	9.2	9.1	.3	-.3	.1		1	0
6083.0	6084.0	D	12.5	180	.9	57	252	9.3	9.1		-.5		.7	1	2
6083.5	6084.5	D	15.3	178	.9	57	252	9.3	9.1		-.6		.9	1	2
6084.0	6085.0	D	.4	86	.8	58	252	9.3	9.0	.1	.2	.0		1	0
6084.5	6085.5	D	19.0	72	.8	59	252	9.3	9.0	2.1	3.3	.0		1	0
6085.0	6086.0	D	27.5	203	.8	58	252	9.3	9.0	-3.3			.2	1	3
6085.5	6086.5	D	31.8	244	.8	58	252	9.3	9.0	-3.1			-2.4	1	3
6086.0	6087.0	D	19.2	313	.8	58	251	9.3	9.0		-1.4		-2.1	1	2
6086.5	6087.5	D	28.0	182	.9	58	251	9.3	9.0	-3.0			1.4	1	3
6087.0	6088.0	D	18.5	109	.9	58	251	9.3	9.0		2.6		2.2	1	2
6087.5	6088.5	D	3.9	195	.9	57	250	9.3	9.0	-.6	-.2	.5		1	0
6088.0	6089.0	D	28.7	61	.9	54	250	9.3	9.0	3.0			2.2	1	3
6088.5	6089.5	D	27.8	60	.9	54	250	9.3	9.0	2.9			2.1	1	3
6089.0	6090.0	D	28.9	152	.9	53	249	9.3	9.0	-2.1			2.8	1	3
6089.5	6090.5	D	39.8	180	.9	52	248	9.3	9.0		-2.7		2.1	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5749.0	5750.0	B	3.8	226	1.1	349	86	9.7	9.5	.4	.5	-.2		1	0
5749.5	5750.5	C	3.1	291	1.1	349	86	9.7	9.5	.2	.5	.4		1	0
5750.0	5751.0	C	3.3	301	1.1	349	85	9.7	9.5	.1	.5	.5		1	0
5750.5	5751.5	C	2.5	342	1.1	348	85	9.8	9.5	-.2			.3	1	3
5751.0	5752.0	D	2.5	48	1.0	347	84	9.8	9.5	-.4			.0	1	3
5751.5	5752.5	D	2.0	9	1.0	346	83	9.8	9.5	-.5	-.1	.5		1	0
5752.0	5753.0	C	2.8	25	1.0	346	83	9.8	9.5	-.6	-.2	.6		1	0
5752.5	5753.5	D	2.5	48	1.0	345	82	9.8	9.5	-.4			.0	1	3
5753.0	5754.0	D	22.6	312	1.0	345	82	9.8	9.5	-.3	2.6			1	4
5753.5	5754.5	C	4.6	76	1.0	344	81	9.8	9.5	-.5			-.3	1	3
5754.0	5755.0	D	3.2	82	1.0	344	81	9.8	9.5	-.3			-.2	1	3
5754.5	5755.5	D	2.1	145	1.0	345	80	9.8	9.5	-.2	-.1	-.1		1	0
5755.0	5756.0	B	.9	142	1.1	345	79	9.8	9.5	-.2	-.1	.0		1	0
5755.5	5756.5	C	.4	331	1.0	344	79	9.8	9.5	-.1	.0	.2		1	0
5756.0	5757.0	D	.9	46	1.0	343	78	9.8	9.5	-.2	-.1	.3		1	0
5756.5	5757.5	D	1.7	184	1.0	343	78	9.8	9.5	.1	.1			1	4
5757.0	5758.0	D	2.3	13	1.0	342	77	9.8	9.5	-.2	-.2	.5		1	0
5758.0	5759.0	D	5.4	342	1.0	342	76	9.8	9.5		.1		.6	1	2
5758.5	5759.5	C	22.8	343	1.0	341	75	9.8	9.5		.1		2.1	1	2
5759.0	5760.0	D	2.2	44	1.0	341	74	9.8	9.5		-.3		.0	1	2
5759.5	5760.5	D	28.9	124	1.0	340	73	9.8	9.5	.3	-3.3			1	4
5760.0	5761.0	C	3.5	134	1.0	339	72	9.8	9.5	.2	-.3	-.3		1	0
5760.5	5761.5	C	.7	195	1.0	338	71	9.8	9.5	.2	.1	.1		1	0
5761.0	5762.0	C	24.5	290	1.0	337	70	9.8	9.5	.0	3.5	3.0		1	0
5761.5	5762.5	C	3.1	132	1.0	337	69	9.8	9.5	-.1	-.2	-.3		1	0
5762.0	5763.0	B	3.0	135	1.0	337	69	9.8	9.5	-.1	-.2	-.3		1	0
5762.5	5763.5	A	4.0	86	.9	337	67	9.8	9.5	-.2	-.7	-.1		1	0
5763.0	5764.0	B	4.6	75	.9	337	67	9.8	9.6	-.4	-.8	.0		1	0
5763.5	5764.5	C	3.9	77	.9	337	66	9.9	9.6	-.3	-.7	.0		1	0
5764.0	5765.0	B	.8	307	.9	337	65	9.9	9.6	.1	.1	.3		1	0
5764.5	5765.5	A	1.5	14	.9	336	64	9.9	9.6	.1	-.2	.4		1	0
5765.0	5766.0	B	3.4	110	.9	336	63	9.9	9.6	-.1			-.3	1	3
5765.5	5766.5	C	9.9	77	.9	336	63	9.9	9.6	.0	-1.7	-.3		1	0
5766.0	5767.0	A	2.4	93	.9	336	62	9.9	9.6	-.1	-.4	-.1		1	0
5766.5	5767.5	B	4.3	77	.8	336	61	9.9	9.6	-.7	-.7	-.1		1	0
5767.0	5768.0	B	5.0	168	.8	337	60	9.9	9.6	.2	.2	-.7		1	0
5768.0	5769.0	D	24.1	192	.8	338	59	10.0	9.6		3.0		.0	1	2
5768.5	5769.5	A	3.1	221	.8	338	58	10.0	9.6	.2	.5	.0		1	0
5769.0	5770.0	A	.7	85	.8	338	57	10.0	9.7	-.1	-.1	.1		1	0
5769.5	5770.5	A	.7	220	.8	338	57	10.0	9.7	.1	.1	.1		1	0
5770.0	5771.0	A	5.4	142	.8	337	55	10.0	9.7	.4	-.1	-.8		1	0
5770.5	5771.5	A	5.9	141	.8	337	55	10.0	9.7	.5	-.1	-.9		1	0
5771.0	5772.0	A	2.3	260	.8	336	53	10.0	9.7	.0	.3	.3		1	0
5771.5	5772.5	A	2.2	258	.8	336	53	10.0	9.7	.1	.3	.3		1	0
5772.0	5773.0	B	.9	184	.8	335	52	10.0	9.7	.0	.1	.0		1	0
5772.5	5773.5	A	1.8	117	.8	335	52	10.0	9.7	.0	-.2	-.2		1	0
5773.0	5774.0	A	3.3	171	.8	336	50	10.0	9.7	.2	.3	-.4		1	0
5773.5	5774.5	A	3.1	177	.7	336	50	10.0	9.7	.3	.3	-.3		1	0
5774.0	5775.0	A	2.8	204	.7	337	48	10.0	9.7	.2	.4	-.1		1	0
5774.5	5775.5	A	1.7	355	.7	337	48	10.0	9.7	-.1	-.2	.3		1	0
5775.0	5776.0	A	1.3	23	.7	339	46	10.0	9.7	-.1	-.3	.2		1	0
5775.5	5776.5	A	.9	29	.7	340	46	10.0	9.8	.0	-.2	.2		1	0
5776.0	5777.0	A	1.9	204	.7	344	44	10.1	9.8	.3	.2	.0		1	0
5776.5	5777.5	A	1.5	141	.7	345	43	10.1	9.8	.2	.0	-.1		1	0
5777.0	5778.0	A	10.8	48	.7	347	43	10.2	9.8	-.7	-2.0	-.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL	CORR. GRADE		DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5777.5	5778.5	A	2.1	360	.7	347	43	10.2	9.8	-.4	-.3	.3		1	0
5778.0	5779.0	A	.5	5	.7	345	43	10.1	9.8	-.1	-.1	.1		1	0
5778.5	5779.5	A	1.7	103	.7	345	43	10.1	9.7	.0	-.2	-.1		1	0
5779.0	5780.0	A	2.8	116	.7	344	43	10.0	9.7	.1	-.2	-.3		1	0
5779.5	5780.5	A	5.3	145	.7	344	43	9.9	9.7	.4	.1	-.8		1	0
5780.0	5781.0	A	3.1	27	.7	343	42	9.9	9.7	-.6	-.6	.2		1	0
5780.5	5781.5	A	3.1	60	.7	342	42	9.9	9.6	-.2	-.6	-.1		1	0
5781.0	5782.0	A	3.9	155	.7	340	41	9.9	9.6	.4	.2	-.5		1	0
5781.5	5782.5	A	3.1	125	.7	340	41	9.9	9.6	.3	-.1	-.4		1	0
5782.0	5783.0	A	2.5	151	.7	338	40	9.9	9.6	.2	.1	-.3		1	0
5782.5	5783.5	A	1.1	151	.7	338	39	9.9	9.6	.1	.0	-.1		1	0
5783.0	5784.0	A	1.1	66	.7	337	38	9.8	9.6	-.1	-.2	.0		1	0
5783.5	5784.5	B	1.1	195	.7	336	38	9.8	9.6	.0			.1	1	3
5784.0	5785.0	B	4.1	115	.7	336	37	9.8	9.6	.3	-.2	-.6		1	0
5784.5	5785.5	B	11.8	69	.7	336	36	9.8	9.6	-.1	-1.8	-1.0		1	0
5785.0	5786.0	B	13.2	67	.6	336	35	9.8	9.6	-.4			-1.6	1	3
5785.5	5786.5	C	30.1	97	.6	336	34	9.8	9.6	1.1			-3.7	1	3
5786.0	5787.0	D	12.9	84	.6	337	34	9.8	9.6	1.0	-1.5	-1.6		1	0
5786.5	5787.5	D	8.9	11	.6	337	33	9.8	9.6		-1.5		-.4	1	2
5787.0	5788.0	D	25.8	15	.6	337	33	9.8	9.6	-3.1			-1.5	1	3
5787.5	5788.5	D	.4	94	.6	336	32	9.8	9.6	-.8	-.1	.0		1	0
5788.0	5789.0	D	5.2	128	.6	335	32	9.8	9.6		.0		-.4	1	2
5788.5	5789.5	D	25.5	123	.6	334	32	9.8	9.5	2.2	.0			1	4
5789.0	5790.0	D	32.0	123	.6	334	32	9.7	9.5	2.9			-2.9	1	3
5789.5	5790.5	D	28.8	115	.6	333	32	9.7	9.5	2.2			-2.9	1	3
5790.0	5791.0	D	16.3	120	.6	333	32	9.7	9.5	.7	-.1	-2.7		1	0
5790.5	5791.5	C	.7	77	.6	333	32	9.7	9.5	.7	-.1	.0		1	0
5791.0	5792.0	D	2.3	196	.6	333	32	9.7	9.4	-.1	.3	.0		1	0
5791.5	5792.5	D	21.7	198	.6	333	32	9.7	9.4	2.2			1.4	1	3
5792.0	5793.0	A	5.5	43	.6	332	33	9.7	9.4	-.4	-1.0	-.1		1	0
5792.5	5793.5	A	5.8	24	.6	332	33	9.6	9.4	-.3	-1.0	.2		1	0
5793.0	5794.0	A	2.9	28	.6	333	34	9.6	9.4	-.4	-.5	.1		1	0
5793.5	5794.5	A	1.5	42	.6	334	34	9.6	9.4	-.2	-.3	.1		1	0
5794.0	5795.0	A	2.2	116	.7	334	35	9.6	9.4	.0	-.1	-.3		1	0
5794.5	5795.5	A	2.3	113	.7	333	35	9.5	9.3	.0	-.1	-.3		1	0
5795.0	5796.0	C	4.2	90	.7	331	36	9.5	9.3	.0	-.5	-.5		1	0
5795.5	5796.5	B	6.4	92	.7	331	36	9.5	9.3	.1	-.6	-.8		1	0
5796.0	5797.0	A	8.0	71	.7	331	37	9.5	9.2	-.1	-1.1	-.6		1	0
5796.5	5797.5	A	7.3	72	.7	331	37	9.5	9.2	-.1	-1.0	-.6		1	0
5797.0	5798.0	D	13.0	116	.7	330	37	9.4	9.2		-.4		-1.2	1	2
5797.5	5798.5	A	4.6	93	.7	329	37	9.4	9.2	.0	-.5	-.5		1	0
5798.0	5799.0	A	7.3	91	.7	328	38	9.4	9.2	.0	-.8	-.9		1	0
5798.5	5799.5	A	7.7	87	.7	327	38	9.4	9.2	-.1	-.9	-.8		1	0
5799.0	5800.0	A	.6	130	.7	327	38	9.4	9.2	.3	.0	.0		1	0
5799.5	5800.5	B	17.9	319	.7	326	38	9.4	9.2	-1.8	-.6			1	4
5800.0	5801.0	A	10.8	72	.7	326	38	9.4	9.2	-.4	-1.5	-.9		1	0
5800.5	5801.5	B	11.0	122	.7	327	38	9.4	9.1	.7			-.9	1	3
5801.0	5802.0	D	10.3	50	.7	326	37	9.3	9.1		-1.7		-1.0	1	2
5801.5	5802.5	D	14.4	47	.7	326	38	9.3	9.0		-2.4		-1.3	1	2
5802.0	5803.0	D	8.5	213	.7	325	38	9.2	9.0	.0	1.3	.0		1	0
5802.5	5803.5	C	2.2	170	.7	325	39	9.2	8.9	.2			.0	1	3
5803.0	5804.0	D	22.1	300	.7	324	40	9.1	8.9	-1.5			2.1	1	3
5803.5	5804.5	B	14.2	224	.7	325	41	9.1	8.8		2.3		1.3	1	2
5804.0	5805.0	A	10.3	149	.7	325	41	9.1	8.8	.9	.5	-1.4		1	0
5804.5	5805.5	B	17.7	184	.7	325	42	9.1	8.8	2.7	2.3	-1.6		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5805.0	5806.0	B	7.4	288	.7	324	43	9.1	8.8		.5		.8	1	2
5805.5	5806.5	B	13.6	137	.7	324	43	9.1	8.8	1.1			-.9	1	3
5806.0	5807.0	A	9.6	96	.8	322	44	9.1	8.8	.6	-1.0	-1.1		1	0
5806.5	5807.5	A	6.3	76	.8	321	44	9.1	8.8	.1	-.9	-.4		1	0
5807.0	5808.0	A	1.3	68	.8	321	44	9.1	8.8	-.2	-.2	.0		1	0
5807.5	5808.5	A	1.5	45	.8	322	45	9.1	8.8	-.1	-.3	.1		1	0
5808.0	5809.0	A	9.8	349	.8	322	45	9.1	8.8	-.4	-.9	1.4		1	0
5808.5	5809.5	A	2.2	338	.9	323	46	9.1	8.8	-.5	-.1	.5		1	0
5809.0	5810.0	A	2.0	286	.9	324	47	9.1	8.8	.5	.1	.4		1	0
5809.5	5810.5	D	22.4	180	.9	326	48	9.1	8.8	2.5	2.5			1	4
5810.0	5811.0	C	11.9	226	.9	327	49	9.1	8.8	1.1	1.9	.0		1	0
5810.5	5811.5	B	13.4	356	.8	328	50	9.1	8.9	-1.6			.3	1	3
5811.0	5812.0	B	13.7	18	.8	328	50	9.1	8.9	-1.5	-1.9	1.3		1	0
5811.5	5812.5	C	15.3	19	.8	327	50	9.0	8.9	-1.8			-.4	1	3
5812.0	5813.0	C	21.5	319	.8	327	50	9.0	8.9	-1.6	.0	3.6		1	0
5812.5	5813.5	C	4.3	98	.8	329	49	9.1	8.9	.0	-.5			1	4
5813.0	5814.0	A	2.8	256	.8	330	49	9.1	8.9	.1	.4	.3		1	0
5813.5	5814.5	C	2.2	98	.8	335	48	9.2	8.9	-.1	-.3	-.1		1	0
5814.0	5815.0	C	10.6	216	.8	336	48	9.3	9.0	.5	1.7	-.2		1	0
5814.5	5815.5	B	6.8	322	.8	334	49	9.4	9.1	-.7	-.1			1	4
5815.0	5816.0	D	11.5	326	.8	332	49	9.5	9.1	-.2	-.3	2.0		1	0
5815.5	5816.5	D	12.5	127	.8	327	49	9.4	9.0	.2	-.4	-1.8		1	0
5816.0	5817.0	D	12.7	108	.8	325	49	9.3	9.0	.5	-1.1	-1.6		1	0
5816.5	5817.5	C	32.2	11	.8	321	48	9.1	8.9		-4.6		-.6	1	2
5817.0	5818.0	D	6.7	173	.8	320	47	9.1	8.9	.7	.6	-.7		1	0
5817.5	5818.5	D	25.9	60	.7	320	46	9.1	8.8	-1.7			-2.6	1	3
5818.0	5819.0	C	20.5	197	.7	321	46	9.1	8.8	2.2			.8	1	3
5818.5	5819.5	A	12.8	128	.7	322	45	9.1	8.7	1.0	-.2	-1.9		1	0
5819.0	5820.0	A	13.1	130	.7	321	44	9.1	8.7	1.1	-.2	-1.9		1	0
5819.5	5820.5	C	10.0	135	.7	319	43	9.1	8.6	1.0	.0	-1.4		1	0
5820.0	5821.0	B	2.8	197	.8	318	43	9.1	8.6	.8	.4	-.1		1	0
5820.5	5821.5	C	20.4	139	.7	315	43	9.0	8.6	1.1	.3	-3.1		1	0
5821.0	5822.0	C	23.2	138	.7	314	43	9.0	8.6	1.4	.3	-3.6		1	0
5821.5	5822.5	D	26.4	270	.7	312	44	8.9	8.7	-.3	3.1	3.2		1	0
5822.0	5823.0	D	22.4	148	.7	312	45	8.9	8.7	2.1			-1.3	1	3
5822.5	5823.5	D	21.0	211	.7	314	46	8.9	8.7		3.3		1.3	1	2
5823.0	5824.0	C	9.7	54	.8	315	47	9.0	8.7	-.5	-1.5	-.1		1	0
5823.5	5824.5	C	3.7	57	.8	318	48	9.0	8.7	-.9	-.6	.0		1	0
5824.0	5825.0	C	3.9	80	.8	320	48	9.0	8.7	.3	-.5	-.2		1	0
5825.0	5826.0	D	20.2	201	.8	322	47	9.1	8.7	1.4	3.0	-1.2		1	0
5825.5	5826.5	C	6.9	136	.8	322	46	9.1	8.7	.5	.0	-.9		1	0
5826.0	5827.0	C	4.3	67	.8	323	45	9.1	8.7	-.4	-.7	-.1		1	0
5826.5	5827.5	A	5.1	93	.8	323	44	9.1	8.7	-.5	-.6	-.5		1	0
5827.0	5828.0	B	16.3	162	.8	322	43	9.1	8.7		1.3		-.4	1	2
5827.5	5828.5	D	9.5	148	.8	320	41	9.1	8.8	.9			-.4	1	3
5828.0	5829.0	D	11.1	139	.7	317	40	9.1	8.8	.9			-.7	1	3
5828.5	5829.5	C	19.7	36	.7	315	39	9.0	8.8	-1.4	-3.2	.3		1	0
5829.0	5830.0	B	20.9	84	.7	314	39	9.0	8.8	-.8	-2.4	-2.3		1	0
5829.5	5830.5	C	17.2	291	.7	312	37	9.0	8.8		.8		1.8	1	2
5830.0	5831.0	A	6.0	96	.7	310	36	9.0	8.8	1.0	-.5	-.7		1	0
5830.5	5831.5	D	39.9	323	.7	306	34	9.0	8.8		-2.5		2.3	1	2
5831.0	5832.0	D	26.4	317	.7	306	33	9.0	8.8	-2.7			1.6	1	3
5831.5	5832.5	A	14.5	73	.7	309	32	9.0	8.7	.3	-1.8	-1.4		1	0
5832.0	5833.0	D	16.5	78	.8	311	33	9.0	8.7	.3	-1.9	-1.7		1	0
5833.5	5834.5	D	27.5	353	.7	313	37	9.0	8.7		-3.4		-.1	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5834.0	5835.0	D	22.8	113	.7	312	38	9.0	8.8		-1.0		-2.2	1	2
5835.0	5836.0	D	28.6	95	.7	315	42	9.0	8.9	.4	-2.9			1	4
5835.5	5836.5	D	16.9	260	.8	316	44	9.1	8.9	-.4	2.2	1.7		1	0
5836.0	5837.0	D	29.3	150	.8	316	46	9.1	8.9	3.0			-1.7	1	3
5836.5	5837.5	B	26.8	185	.8	316	48	9.1	8.9	3.1			.2	1	3
5837.0	5838.0	A	6.0	142	.8	317	49	9.1	8.9	.9	.1	-.8		1	0
5837.5	5838.5	A	9.5	132	.8	317	49	9.1	8.9	.4	-.2	-1.4		1	0
5838.0	5839.0	B	8.0	137	.8	318	49	9.1	8.9	.1	.0	-1.1		1	0
5838.5	5839.5	B	18.0	199	.8	319	49	9.1	8.8	1.8	2.6	-1.3		1	0
5839.0	5840.0	A	16.8	218	.8	319	49	9.1	8.8	1.3	2.7	-.4		1	0
5839.5	5840.5	B	11.1	136	.8	319	49	9.1	8.8	.0	-.1	-1.6		1	0
5840.0	5841.0	B	3.6	95	.8	319	50	9.1	8.7	-.1	-.4			1	4
5840.5	5841.5	D	8.0	57	.8	318	51	9.1	8.7	-.6			-.6	1	3
5841.0	5842.0	D	2.6	209	.8	318	52	9.0	8.7	-.5	.4	.0		1	0
5841.5	5842.5	B	5.8	130	.8	316	53	9.0	8.7	-.2	-.2	-.7		1	0
5842.0	5843.0	C	13.6	280	.8	316	54	9.0	8.7	-.1	1.5			1	4
5842.5	5843.5	B	7.4	148	.8	316	55	9.0	8.7	1.0	.1	-1.0		1	0
5843.0	5844.0	D	23.3	329	.8	316	56	9.0	8.7		-.2		1.9	1	2
5844.0	5845.0	D	18.6	266	.8	314	58	9.0	8.7	.9	2.7	1.5		1	0
5844.5	5845.5	D	19.9	172	.9	315	59	8.9	8.7	2.2	1.3	-2.8		1	0
5845.0	5846.0	C	31.0	229	.9	316	59	8.9	8.7	3.1			2.3	1	3
5845.5	5846.5	C	9.4	166	.9	317	59	8.9	8.7	1.3	.5	-1.2		1	0
5846.0	5847.0	C	19.4	224	.9	317	58	8.9	8.8	1.8			1.2	1	3
5846.5	5847.5	D	17.2	223	.8	314	56	8.9	8.8	1.6			1.1	1	3
5847.0	5848.0	D	17.1	327	.8	313	56	8.9	8.8				1.4	1	2
5847.5	5848.5	D	6.2	303	.8	311	54	8.9	8.8	-.3	.0		.7	1	3
5848.0	5849.0	C	21.5	2	.8	311	53	9.0	8.8	-2.5			.3	1	3
5848.5	5849.5	D	8.0	287	.8	311	51	9.0	8.8	-.2	.7			1	4
5849.5	5850.5	D	38.8	123	.7	308	47	9.0	8.8	2.5	-1.8			1	4
5850.0	5851.0	C	26.9	332	.8	306	45	9.0	8.8		-1.4		1.5	1	2
5850.5	5851.5	D	16.9	314	.8	306	44	9.1	8.8		.0		1.4	1	2
5851.0	5852.0	B	5.1	310	.8	309	44	9.1	8.8	-.1	.1	.9		1	0
5851.5	5852.5	A	4.9	326	.8	310	45	9.1	8.8	-.2	-.1	.9		1	0
5852.0	5853.0	D	37.7	331	.8	313	46	9.1	8.8		-1.9		2.5	1	2
5852.5	5853.5	D	18.6	23	.8	312	46	9.1	8.8	-2.0	-2.8			1	4
5853.0	5854.0	D	24.2	99	.8	310	46	9.1	8.9	.3			-2.7	1	3
5853.5	5854.5	B	15.0	266	.8	309	46	9.0	8.9	.1	1.9			1	4
5854.0	5855.0	D	23.9	136	.8	307	47	9.0	8.9		-.1		-1.9	1	2
5854.5	5855.5	D	37.9	138	.8	308	48	9.0	8.9		.0		-3.3	1	2
5855.0	5856.0	D	3.5	265	.8	309	49	9.0	8.8	.0	.5			1	4
5855.5	5856.5	D	15.5	86	.8	310	49	9.0	8.8	-.4	-2.0	-1.3		1	0
5856.0	5857.0	D	21.8	194	.9	312	51	9.0	8.8		2.9		.5	1	2
5856.5	5857.5	B	6.7	253	.9	312	51	8.9	8.8	-.4	1.0	.5		1	0
5857.0	5858.0	A	8.6	245	.8	314	53	8.9	8.8	.6	1.3	.4		1	0
5857.5	5858.5	D	13.0	261	.8	314	53	8.9	8.8		1.9		1.5	1	2
5858.0	5859.0	C	19.1	172	.8	316	55	8.9	8.8		1.4		-.6	1	2
5858.5	5859.5	B	25.5	171	.8	317	55	8.9	8.8	2.8			-.9	1	3
5859.0	5860.0	D	38.2	163	.8	317	54	9.0	8.8		2.3		-2.0	1	2
5859.5	5860.5	C	12.7	230	.8	317	53	9.0	8.8	1.0	2.0			1	4
5860.0	5861.0	C	20.0	145	.8	316	51	9.0	8.8		.3		-1.4	1	2
5860.5	5861.5	D	22.2	308	.8	314	50	9.0	8.8		.8		2.2	1	2
5861.0	5862.0	D	6.2	233	.8	313	49	9.0	8.8	.0	1.0	.2		1	0
5861.5	5862.5	C	11.5	81	.8	314	49	9.0	8.8	-.3			-1.2	1	3
5862.0	5863.0	C	11.9	88	.8	314	48	9.0	8.8	-.2	-1.4	-1.1		1	0
5862.5	5863.5	C	7.3	77	.8	314	48	9.0	8.8	-.4	-1.0	-.4		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL	CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5863.0	5864.0 B	3.6	31	.8	314	47	9.0	8.8	-.5	-.5	.3		1	0
5863.5	5864.5 A	11.2	283	.8	314	47	9.0	8.8	-.1	1.0	1.6		1	0
5864.0	5865.0 A	13.6	267	.8	318	46	9.0	8.8	.8	1.7	1.5		1	0
5864.5	5865.5 B	30.4	249	.8	319	46	9.0	8.8	1.4			3.5	1	3
5865.0	5866.0 B	26.8	260	.8	317	46	9.0	8.7	.6			3.2	1	3
5865.5	5866.5 A	15.8	247	.8	313	46	9.0	8.7	.2	2.4	1.0		1	0
5866.0	5867.0 B	6.2	296	.8	309	47	9.0	8.7	-1.1	.4	1.0		1	0
5866.5	5867.5 B	22.9	109	.8	309	47	9.0	8.7		-1.7		-2.4	1	2
5867.0	5868.0 D	19.3	294	.8	314	48	9.0	8.7	-.8			2.1	1	3
5868.5	5869.5 A	23.2	265	.7	311	48	9.0	8.7	.6	3.1	2.4		1	0
5869.0	5870.0 D	36.8	281	.8	309	47	8.9	8.7	-.7	4.0			1	4
5869.5	5870.5 B	8.9	206	.8	310	47	8.9	8.8	.2	1.3	-.4		1	0
5870.0	5871.0 B	18.9	239	.9	314	45	8.9	8.8	.3	3.0	.8		1	0
5870.5	5871.5 C	17.5	236	.9	316	45	9.0	8.9	.5	2.8	.7		1	0
5871.0	5872.0 B	9.4	273	.9	318	44	9.0	8.8	.2	1.0	1.2		1	0
5871.5	5872.5 D	34.8	0	.9	318	44	9.0	8.8	-4.8	-4.5	4.4		1	0
5872.0	5873.0 A	10.3	275	.9	316	45	9.1	8.7	.7	1.1	1.4		1	0
5872.5	5873.5 B	15.1	46	.9	314	45	9.1	8.7	-1.6	-2.5	.1		1	0
5873.0	5874.0 D	18.0	221	.8	310	44	9.1	8.7	2.0	3.0	.0		1	0
5873.5	5874.5 A	7.5	236	.8	307	43	9.0	8.7	.2	1.2	.4		1	0
5874.0	5875.0 A	4.3	250	.7	305	41	9.0	8.7	-.3	.6	.4		1	0
5874.5	5875.5 D	3.1	99	.7	305	39	9.0	8.8	.0			-.3	1	3
5875.0	5876.0 D	10.5	3	.7	306	38	9.0	8.8	-1.2			-.2	1	3
5875.5	5876.5 D	22.7	210	.7	308	39	9.0	8.8	2.1			1.6	1	3
5876.0	5877.0 B	16.9	213	.7	312	42	9.0	8.9	1.5			1.2	1	3
5876.5	5877.5 B	27.2	246	.7	312	47	9.0	8.8	.9	4.4	1.6		1	0
5877.0	5878.0 C	5.2	87	.7	312	55	8.9	8.8	-.9	-.7	-.3		1	0
5877.5	5878.5 D	14.4	143	.8	314	62	8.9	8.7		-.3		-1.2	1	2
5878.0	5879.0 B	23.9	74	.8	319	68	8.9	8.7	-1.8			-2.1	1	3
5878.5	5879.5 D	19.1	3	.9	323	69	8.9	8.7	-2.0			.9	1	3
5879.0	5880.0 D	36.3	340	.9	327	69	8.9	8.7	-3.3			3.3	1	3
5879.5	5880.5 C	27.0	344	.9	329	69	8.9	8.7	-2.5			2.1	1	3
5880.0	5881.0 D	38.6	349	.8	333	69	8.9	8.7		-1.2		3.0	1	2
5880.5	5881.5 C	19.7	137	.8	336	70	8.9	8.7	.7	-1.2			1	4
5881.0	5882.0 C	26.6	9	.9	334	72	8.9	8.7		-2.0		1.1	1	2
5881.5	5882.5 D	7.8	301	.9	331	74	8.9	8.7		.9		.9	1	2
5882.0	5883.0 D	16.7	221	.9	329	76	8.9	8.7		2.2		.4	1	2
5882.5	5883.5 D	5.0	158	.8	329	76	8.9	8.7	.6	-.1	-.6		1	0
5883.0	5884.0 C	16.3	93	.8	329	76	8.9	8.7	-.9	-2.5	-.6		1	0
5883.5	5884.5 D	7.5	163	.9	328	75	8.9	8.7	1.0	.0	-1.0		1	0
5884.0	5885.0 D	31.0	40	.9	326	73	8.9	8.8		-4.5		-.7	1	2
5884.5	5885.5 D	17.1	326	.9	325	72	8.9	8.9	-1.0	.8			1	4
5885.0	5886.0 D	23.4	28	.9	327	70	8.9	8.9	-2.8	-2.9			1	4
5885.5	5886.5 C	14.9	3	1.0	327	68	8.9	8.9	-1.6			.7	1	3
5886.0	5887.0 C	12.7	28	1.0	323	68	8.9	8.9	-1.7	-1.5	1.4		1	0
5886.5	5887.5 A	12.4	27	1.0	320	69	8.9	8.8	-2.2	-1.4	1.4		1	0
5888.5	5889.5 D	36.3	181	.9	323	71	9.0	8.8	4.1	2.3			1	4
5889.0	5890.0 D	4.6	119	.9	323	71	9.0	8.8	.0	-.4			1	4
5889.5	5890.5 D	18.8	299	.9	322	70	9.0	8.8	-.1			2.2	1	3
5890.0	5891.0 B	21.7	281	.8	322	69	9.1	8.8	.5			2.6	1	3
5890.5	5891.5 C	22.6	283	.8	323	68	9.1	8.8	.5			2.7	1	3
5891.0	5892.0 D	20.6	335	.8	322	64	9.1	8.8		-.1		1.7	1	2
5891.5	5892.5 B	14.2	206	.8	322	61	9.1	8.8		1.9		.4	1	2
5893.0	5894.0 B	24.6	79	.8	324	60	9.0	8.8	-.7	-3.9	-1.2		1	0
5893.5	5894.5 C	28.1	133	.8	324	61	9.0	8.9		-1.5		-2.9	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5894.0	5895.0	D	9.3	51	.9	324	62	9.1	8.9	-1.9	-1.4	.4		1	0
5894.5	5895.5	A	5.6	116	.9	323	65	9.2	8.9	.1	-.5	-.5		1	0
5895.0	5896.0	A	6.9	145	.9	322	67	9.2	8.9	.3	-.2	-.9		1	0
5895.5	5896.5	A	2.0	346	.9	321	70	9.3	8.9	-.1	.0	.4		1	0
5896.0	5897.0	A	1.0	10	.9	320	71	9.3	8.9	-.1	.0	.3		1	0
5896.5	5897.5	A	10.0	96	.9	320	72	9.3	9.0	.0	-1.5	-.5		1	0
5897.0	5898.0	A	4.2	144	.9	320	72	9.3	9.0	.2	-.2	-.5		1	0
5897.5	5898.5	B	1.5	201	.9	320	71	9.3	9.1	.3	.2	.0		1	0
5898.0	5899.0	A	1.3	153	.9	320	71	9.3	9.1	.2	.0	-.1		1	0
5898.5	5899.5	B	3.6	219	.9	321	70	9.3	9.1	-.1	.6	-.2		1	0
5899.0	5900.0	A	7.5	195	.9	321	69	9.3	9.1	.5	.8	-.8		1	0
5899.5	5900.5	B	3.3	21	.9	322	68	9.2	9.1	-.4	-.3			1	4
5900.0	5901.0	A	6.1	152	.9	322	68	9.2	9.1	.0	-.1	-.8		1	0
5900.5	5901.5	A	13.2	148	.9	322	67	9.2	9.1	.6	-.3	-2.0		1	0
5901.0	5902.0	B	29.1	19	.9	322	66	9.2	9.1	-3.7			.2	1	3
5901.5	5902.5	D	28.2	125	.9	322	65	9.2	9.1	.8			-3.2	1	3
5902.0	5903.0	D	27.2	117	.9	322	64	9.2	9.1		-2.9		-3.2	1	2
5902.5	5903.5	A	3.6	176	.9	321	63	9.2	9.1	.3	.3	-.4		1	0
5903.0	5904.0	A	8.3	164	.9	321	63	9.3	9.1	.2	.3	-1.2		1	0
5903.5	5904.5	C	24.8	204	.9	320	62	9.3	9.1		3.4		.5	1	2
5904.0	5905.0	B	27.3	217	.9	320	61	9.3	9.1	3.1			1.3	1	3
5904.5	5905.5	A	7.5	190	.8	320	60	9.3	9.1	1.7	.8	-.8		1	0
5905.0	5906.0	B	17.8	248	.8	320	59	9.3	9.1	1.2			1.8	1	3
5905.5	5906.5	A	21.4	223	.8	319	58	9.3	9.1	2.6	3.5	-.8		1	0
5906.0	5907.0	C	23.6	199	.9	318	57	9.3	9.1	2.4	3.2	-2.4		1	0
5906.5	5907.5	B	21.2	196	.9	318	57	9.2	9.1	1.9	2.7	-2.2		1	0
5907.0	5908.0	B	11.3	164	.9	317	57	9.2	9.1	1.1			-.5	1	3
5907.5	5908.5	B	19.2	208	.9	316	56	9.2	9.0	1.2	2.8	-1.3		1	0
5908.0	5909.0	C	30.9	191	.9	315	56	9.1	9.0		3.9		.1	1	2
5908.5	5909.5	B	14.3	195	.9	315	56	9.1	8.9	1.6			.2	1	3
5909.0	5910.0	A	8.4	226	.9	314	57	9.1	8.9	.3	1.4	-.1		1	0
5909.5	5910.5	B	2.9	153	.9	314	57	9.1	8.9	-.1	.1	-.3		1	0
5910.0	5911.0	B	4.7	313	.9	314	57	9.1	8.9	-.6	.2	.8		1	0
5910.5	5911.5	A	12.7	249	.8	314	56	9.1	8.9	.6	2.0	.6		1	0
5911.0	5912.0	A	12.2	204	.8	314	56	9.1	8.8	1.4	1.7	-.9		1	0
5911.5	5912.5	B	7.0	194	.8	314	54	9.1	8.8	.7	.9	-.6		1	0
5912.0	5913.0	D	26.5	14	.7	313	52	9.1	8.8	-3.2			-.3	1	3
5912.5	5913.5	D	31.5	334	.7	310	48	9.0	8.8	-3.4			1.9	1	3
5913.0	5914.0	C	22.9	192	.7	309	46	9.0	8.8	3.1	3.2	-2.0		1	0
5913.5	5914.5	A	26.3	175	.7	308	43	9.0	8.8	2.8	3.0	-3.1		1	0
5914.0	5915.0	A	16.9	166	.7	307	42	9.0	8.8	1.8	1.5	-2.1		1	0
5914.5	5915.5	D	15.6	231	.8	306	42	9.0	8.8	1.0			1.5	1	3
5915.0	5916.0	D	20.5	342	.8	306	43	9.0	8.8		-1.6		.7	1	2
5915.5	5916.5	B	13.9	212	.8	308	45	9.0	8.8		2.2		.9	1	2
5916.0	5917.0	A	2.6	238	.8	310	47	9.0	8.8	.0	.4	.2		1	0
5916.5	5917.5	C	17.2	188	.8	313	49	9.0	8.8		2.1		.2	1	2
5917.0	5918.0	D	23.1	152	.8	315	51	9.0	8.8		.7		-1.4	1	2
5917.5	5918.5	A	4.1	207	.8	315	52	9.1	8.8	.5	.6	-.2		1	0
5918.0	5919.0	C	2.6	268	.8	316	53	9.1	8.8	-.3	.4	.4		1	0
5918.5	5919.5	B	16.3	47	.8	317	54	9.2	8.8	-1.2	-2.6	.4		1	0
5919.0	5920.0	D	18.1	75	.8	318	55	9.2	8.8	-1.5	-2.8	-.9		1	0
5919.5	5920.5	B	7.6	165	.8	318	55	9.3	8.8	.7	.4	-1.0		1	0
5920.0	5921.0	B	9.5	167	.8	318	56	9.3	8.8	.9	.6	-1.3		1	0
5920.5	5921.5	A	6.6	132	.8	319	56	9.3	8.9	.5	-.2	-.9		1	0
5921.0	5922.0	A	5.8	159	.8	319	56	9.3	8.9	.7	.2	-.8		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5921.5	5922.5	B	9.6	119	.8	318	54	9.4	8.9	1.1	-.7	-1.2		1	0
5922.0	5923.0	D	9.3	189	.8	318	53	9.4	8.9	1.0			.1	1	3
5922.5	5923.5	D	18.9	92	.8	316	51	9.4	9.0		-2.4		-2.1	1	2
5923.0	5924.0	D	13.1	23	.8	315	50	9.4	9.0	-1.5	-1.9			1	4
5923.5	5924.5	B	23.4	214	.8	316	50	9.4	8.9	2.4			1.5	1	3
5924.0	5925.0	A	8.8	236	.8	317	50	9.4	8.9	1.3	1.5	.3		1	0
5924.5	5925.5	B	4.9	215	.8	318	49	9.3	8.9	.2	.8	-.1		1	0
5925.0	5926.0	B	6.2	129	.8	317	48	9.2	8.9	.5	-.2	-.8		1	0
5925.5	5926.5	A	9.5	131	.8	315	46	9.1	8.9	1.1	-.1	-1.4		1	0
5926.0	5927.0	A	6.3	103	.8	312	44	9.1	8.9	.2	-.5	-.7		1	0
5926.5	5927.5	B	9.0	228	.8	310	39	9.1	8.9	.6			.9	1	3
5927.0	5928.0	A	.2	235	.8	309	36	9.1	8.9	.2	.0	.1		1	0
5927.5	5928.5	A	18.3	220	.7	309	32	9.1	8.9	.5	3.0	.5		1	0
5928.0	5929.0	A	18.6	213	.7	309	29	9.1	8.9	.7	3.0	.3		1	0
5928.5	5929.5	D	4.3	73	.6	307	24	9.1	8.9	.0			-.4	1	3
5929.0	5930.0	B	2.2	97	.6	305	19	9.2	8.8	-.4	-.1	-.2		1	0
5929.5	5930.5	A	8.1	181	.5	299	11	9.2	8.9	1.1	1.3	-.1		1	0
5930.0	5931.0	A	7.8	186	.5	296	6	9.2	8.9	.9	1.2	.1		1	0
5930.5	5931.5	B	6.8	118	.5	294	2	9.2	9.0	.1	.5	-.9		1	0
5931.0	5932.0	C	25.8	65	.5	295	1	9.2	9.0	.9			-2.9	1	3
5931.5	5932.5	C	13.4	57	.5	296	1	9.3	9.0	.2	-1.2	-1.7		1	0
5932.0	5933.0	C	18.3	90	.5	297	1	9.3	9.0		-.1		-1.5	1	2
5933.0	5934.0	D	15.5	217	.4	295	1	9.5	9.0	.3			1.8	1	3
5933.5	5934.5	C	13.6	182	.4	295	1	9.6	9.0		2.3		1.2	1	2
5934.0	5935.0	D	9.9	184	.4	294	1	9.7	9.0		1.7		.9	1	2
5934.5	5935.5	C	32.9	272	.4	291	0	9.6	9.0	-3.1			2.8	1	3
5935.0	5936.0	D	34.7	6	.4	291	0	9.6	9.0	-3.1			-3.6	1	3
5935.5	5936.5	D	8.9	222	.4	291	360	9.5	9.0	.0	1.1			1	4
5936.0	5937.0	C	18.6	49	.4	293	359	9.4	9.0	-.2	-2.1	-2.2		1	0
5936.5	5937.5	B	21.3	47	.4	296	359	9.4	9.0	-.2	-2.5	-2.5		1	0
5937.0	5938.0	D	34.4	174	.3	298	359	9.4	9.0	3.4			3.0	1	3
5937.5	5938.5	D	32.9	103	.3	301	358	9.4	9.0		1.5		-2.0	1	2
5938.0	5939.0	D	24.1	109	.4	300	358	9.4	9.0	2.5	1.5	-3.7		1	0
5938.5	5939.5	D	36.0	259	.4	297	358	9.4	9.0	-2.7	1.1			1	4
5939.0	5940.0	D	23.4	287	.4	293	358	9.4	9.0	-2.6	-1.4			1	4
5939.5	5940.5	D	21.9	288	.4	291	357	9.3	9.0		-1.4		1.0	1	2
5940.5	5941.5	C	21.6	27	.4	293	355	9.3	9.1		-3.2		-2.5	1	2
5941.0	5942.0	D	28.4	70	.3	292	355	9.3	9.1	1.7			-3.0	1	3
5941.5	5942.5	D	29.6	58	.4	292	354	9.3	9.1	1.1			-3.5	1	3
5942.0	5943.0	C	9.2	116	.3	293	354	9.3	9.1	1.0			-.2	1	3
5942.5	5943.5	C	11.4	217	.3	295	353	9.3	9.1	.0			1.3	1	3
5943.0	5944.0	D	7.7	61	.3	41	353	9.3	9.1	.3			-.8	1	3
5943.5	5944.5	A	14.5	227	.3	74	353	9.3	9.1	.3	1.4	1.9		1	0
5944.0	5945.0	B	29.9	266	.3	74	352	9.3	9.0	-2.8			2.4	1	3
5944.5	5945.5	B	30.1	266	.2	74	351	9.3	9.0	-2.8			2.4	1	3
5945.0	5946.0	C	16.2	297	.2	74	350	9.2	8.9	-1.8	-1.6			1	4
5945.5	5946.5	D	37.3	277	.2	74	349	9.1	8.8		-2.1		2.1	1	2
5946.0	5947.0	C	28.4	228	.2	74	348	9.1	8.8	-.8	2.5			1	4
5946.5	5947.5	C	38.7	70	.2	74	348	9.1	8.8	3.1	-.9			1	4
5947.0	5948.0	D	25.1	245	.2	74	346	9.1	8.8	-1.6			2.4	1	3
5947.5	5948.5	C	26.2	239	.2	74	344	9.1	8.8	-1.5	1.2			1	4
5948.0	5949.0	B	35.4	236	.3	74	341	9.1	8.8	-2.2	1.7			1	4
5948.5	5949.5	C	25.1	336	.2	74	340	9.1	8.8	-2.2			-2.0	1	3
5949.0	5950.0	B	18.3	333	.2	74	338	9.1	8.8	-1.6	-3.0	.2		1	0
5949.5	5950.5	A	16.6	356	.1	74	338	9.1	8.8	-1.4	-2.6	-.8		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5950.0	5951.0	D	39.0	49	.1	74	339	9.1	8.7	2.1	-2.5			1	4
5950.5	5951.5	C	25.5	36	.2	74	340	9.1	8.7	.5	-2.4			1	4
5951.5	5952.5	B	39.9	99	.2	74	344	9.1	8.7		3.3		-1.7	1	2
5952.5	5953.5	C	37.6	83	.2	74	341	9.1	8.7	4.1	1.5			1	4
5953.0	5954.0	D	15.9	211	.2	74	339	9.0	8.7	-.1	1.6			1	4
5953.5	5954.5	D	15.1	104	.2	74	338	9.0	8.7	1.3	1.4	-1.9		1	0
5954.0	5955.0	C	14.5	84	.2	74	337	9.0	8.7	1.1	.7	-2.2		1	0
5954.5	5955.5	B	29.6	22	.2	74	336	9.0	8.7	.0			-3.6	1	3
5955.0	5956.0	D	36.4	264	.2	74	335	9.0	8.7	-4.1			2.0	1	3
5955.5	5956.5	B	29.9	329	.2	74	335	9.0	8.7	-2.9	-5.2			1	4
5956.5	5957.5	D	36.5	231	.2	74	334	9.0	8.8	-2.3	1.6			1	4
5957.0	5958.0	D	7.4	162	.2	74	334	9.0	8.8	.5	1.2			1	4
5957.5	5958.5	D	23.2	331	.2	74	334	9.0	8.8	-2.0			-1.8	1	3
5958.0	5959.0	D	23.1	347	.2	74	335	9.0	8.8	-1.4			-2.3	1	3
5958.5	5959.5	D	25.3	351	.2	74	335	9.0	8.8	-1.5			-2.6	1	3
5959.0	5960.0	D	11.5	325	.2	74	335	9.0	8.8	-1.0	-1.8			1	4
5959.5	5960.5	C	27.5	339	.2	74	335	9.0	8.8	-2.2			-2.5	1	3
5960.0	5961.0	D	27.8	346	.2	74	335	9.1	8.8	-1.9			-2.8	1	3
5960.5	5961.5	C	27.5	207	.2	74	334	9.1	8.8	-.4			3.2	1	3
5961.0	5962.0	D	10.1	345	.2	74	332	9.1	8.8	-.6	-1.6			1	4
5961.5	5962.5	C	16.7	319	.1	74	331	9.1	8.7	-.9	-2.7	.5		1	0
5962.0	5963.0	C	18.4	353	.1	74	327	9.1	8.8	-.7			-2.0	1	3
5962.5	5963.5	B	16.9	352	.1	74	324	9.1	8.8	-.6			-1.8	1	3
5963.0	5964.0	C	29.9	357	.1	74	318	9.1	8.9	-.5			-3.6	1	3
5963.5	5964.5	C	30.6	1	.0	74	316	9.1	9.0	.0			-3.8	1	3
5964.0	5965.0	D	35.2	15	.1	74	314	9.1	9.1	1.3	-3.1			1	4
5964.5	5965.5	C	7.9	280	.1	74	313	9.1	9.1	-1.7	-1.0	.7		1	0
5965.0	5966.0	B	10.3	8	.1	74	313	9.1	9.1	.2	-.9			1	4
5965.5	5966.5	C	38.7	32	.1	74	312	9.1	9.1	2.9	-1.3			1	4
5966.0	5967.0	C	9.4	80	.1	74	312	9.1	9.0	1.1	.9			1	4
5966.5	5967.5	C	10.4	144	.1	74	311	9.1	9.1	.4	1.6	.4		1	0
5967.5	5968.5	B	22.8	345	.1	74	310	9.1	9.1	.1	-3.1	-2.3		1	0
5968.0	5969.0	C	13.2	338	.1	74	309	9.1	9.1		-1.9		-1.5	1	2
5968.5	5969.5	D	30.4	21	.1	74	308	9.1	9.1	1.8	-1.6			1	4
5969.0	5970.0	B	7.7	52	.2	74	308	9.2	8.9		.3		-.4	1	2
5969.5	5970.5	C	8.1	53	.2	74	309	9.2	8.9		.3		-.4	1	2
5970.0	5971.0	B	3.9	58	.1	74	309	9.4	8.7	1.3	.2	-.6		1	0
5970.5	5971.5	D	24.4	39	.1	74	309	9.4	8.7		.0		-2.0	1	2
5971.0	5972.0	B	21.4	49	.1	74	310	9.4	8.8	2.1	.6	-3.4		1	0
5971.5	5972.5	A	21.7	49	.1	74	310	9.4	8.8	2.1	.6	-3.5		1	0
5972.0	5973.0	C	13.1	38	.1	74	311	9.4	8.9	1.0	-.1	-2.1		1	0
5972.5	5973.5	A	13.8	39	.1	74	311	9.4	8.9	.9	-.1	-2.2		1	0
5973.0	5974.0	A	3.9	54	.1	74	312	9.3	8.9	.9	.1	-.6		1	0
5973.5	5974.5	B	4.2	35	.1	74	313	9.3	9.0	.0	-.1	-.7		1	0
5974.0	5975.0	B	7.9	44	.1	74	315	9.3	9.0		.0		-.6	1	2
5974.5	5975.5	B	14.1	49	.1	74	316	9.3	9.0	1.2	.2			1	4
5975.0	5976.0	C	10.4	7	.1	74	317	9.3	9.1	.2	-1.1	-1.3		1	0
5975.5	5976.5	C	10.1	10	.1	74	318	9.3	9.1	.0	-1.0	-1.3		1	0
5976.0	5977.0	C	12.1	139	.1	74	320	9.3	9.1	.0	2.0	.0		1	0
5976.5	5977.5	C	26.9	190	.1	74	321	9.3	9.1		3.1		3.3	1	2
5977.0	5978.0	B	15.0	183	.0	74	322	9.3	9.1	.1	1.9			1	4
5977.5	5978.5	B	8.7	354	.1	74	322	9.3	9.1	-.2	-1.2			1	4
5978.0	5979.0	C	10.0	16	.1	74	322	9.4	9.1	.2	-1.0			1	4
5978.5	5979.5	C	8.5	106	.1	74	323	9.4	9.1	.6	1.1	-.8		1	0
5979.0	5980.0	A	10.0	15	.1	74	323	9.4	9.1	.2	-1.0	-1.3		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5979.5	5980.5	B	12.3	8	.1	74	324	9.4	9.1	.0	-1.5	-1.4		1	0
5980.0	5981.0	A	9.6	13	.0	74	324	9.4	9.1	-.4	-1.0	-1.2		1	0
5980.5	5981.5	B	4.8	358	.0	74	325	9.4	9.1	-.4	-.7	-.4		1	0
5981.0	5982.0	A	3.6	296	.0	74	326	9.4	9.1	-.7	-.5	.3		1	0
5981.5	5982.5	A	1.9	66	.0	74	326	9.4	9.1	.2	.1	-.3		1	0
5982.0	5983.0	A	.9	125	.0	74	326	9.4	9.1	.2	.1	-.1		1	0
5982.5	5983.5	A	2.1	143	.0	74	327	9.4	9.1	.1	.3	.0		1	0
5983.0	5984.0	A	2.9	26	.1	74	327	9.4	9.1	-.6	-.2	-.4		1	0
5984.0	5985.0	B	25.1	72	.1	74	328	9.5	9.1	2.6	1.1			1	4
5984.5	5985.5	A	11.0	346	.1	74	329	9.5	9.1	-.1	-1.8	-.6		1	0
5985.0	5986.0	A	.6	339	.1	74	329	9.5	9.1	-.3	-.1	.0		1	0
5985.5	5986.5	A	.5	290	.1	74	329	9.5	9.1	-.2	-.1	.0		1	0
5986.0	5987.0	A	5.2	328	.1	74	329	9.5	9.1	-.4	-.9	.0		1	0
5986.5	5987.5	A	3.7	352	.2	74	329	9.5	9.1	-.2	-.6	-.3		1	0
5987.0	5988.0	A	2.5	276	.2	74	329	9.5	9.1	-.2	-.2	.3		1	0
5987.5	5988.5	A	2.6	300	.2	74	330	9.5	9.1	-.3	-.4	.2		1	0
5988.0	5989.0	A	1.6	295	.2	74	330	9.5	9.1	-.1	-.2	.1		1	0
5988.5	5989.5	A	2.1	270	.2	74	329	9.5	9.1	-.2	-.2	.3		1	0
5989.0	5990.0	A	1.9	272	.1	74	329	9.5	9.1	-.2	-.2	.2		1	0
5989.5	5990.5	D	7.4	238	.1	74	329	9.5	9.2		.0		.6	1	2
5990.0	5991.0	B	5.0	217	.1	74	329	9.5	9.2	.0	.3	.7		1	0
5990.5	5991.5	A	6.4	255	.1	74	329	9.5	9.2	-.1	-.3	1.0		1	0
5991.0	5992.0	A	1.6	303	.1	74	329	9.5	9.2	-.4	-.2	.1		1	0
5991.5	5992.5	B	3.3	263	.1	74	329	9.5	9.2	-.3	-.2	.5		1	0
5992.0	5993.0	B	4.0	261	.1	74	329	9.5	9.2	-.7	-.2	.6		1	0
5992.5	5993.5	A	1.5	253	.1	74	329	9.5	9.2	-.3	-.1	.2		1	0
5993.0	5994.0	A	2.4	233	.1	74	329	9.5	9.2	-.3	.0	.4		1	0
5993.5	5994.5	A	4.2	242	.1	74	329	9.5	9.2	-1.1	.0	.6		1	0
5994.0	5995.0	C	3.1	55	.1	74	329	9.5	9.2		.0		-.3	1	2
5994.5	5995.5	D	7.8	295	.1	74	328	9.5	9.2	-1.5	-1.1	.7		1	0
5996.0	5997.0	D	11.0	99	.1	74	327	9.5	9.2	1.3			.0	1	3
5996.5	5997.5	D	16.1	224	.1	74	327	9.4	9.1		.6		1.6	1	2
5997.0	5998.0	C	5.5	212	.1	74	326	9.4	9.1	.1	.4	.8		1	0
5997.5	5998.5	A	2.9	210	.1	74	325	9.4	9.1	-.1	.2	.4		1	0
5998.0	5999.0	A	2.1	213	.1	74	325	9.4	9.1	-.1	.1	.3		1	0
5998.5	5999.5	A	3.3	223	.1	74	324	9.4	9.1	.1	.1	.5		1	0
5999.0	6000.0	A	2.8	226	.1	74	323	9.4	9.1	.1	.1	.4		1	0
5999.5	6000.5	B	2.9	20	.1	74	322	9.4	9.1	-.3	-.3	-.4		1	0
6000.0	6001.0	D	9.7	307	.0	74	322	9.4	9.1	-1.0			-.6	1	3
6000.5	6001.5	B	11.5	263	.0	74	320	9.3	9.1	-.9	-1.0	1.6		1	0
6001.0	6002.0	A	10.8	271	.0	74	320	9.3	9.0	-1.0	-1.2	1.3		1	0
6001.5	6002.5	D	38.4	48	.0	74	318	9.3	9.0	3.6	.0			1	4
6002.0	6003.0	B	.1	29	.0	74	317	9.3	9.0	-.1	.0	.0		1	0
6002.5	6003.5	B	9.2	314	.1	74	315	9.3	9.0	-.1	-1.5	.0		1	0
6003.0	6004.0	A	.9	239	.1	74	314	9.3	9.0	.7	.0	.1		1	0
6003.5	6004.5	A	.5	209	.1	74	312	9.3	9.0	-.1	.0	.1		1	0
6004.0	6005.0	A	.9	85	.1	74	311	9.2	9.0	.0	.1	-.1		1	0
6004.5	6005.5	A	1.9	319	.1	74	309	9.2	9.0	-.3	-.3	-.1		1	0
6005.0	6006.0	A	2.1	301	.1	74	308	9.2	9.0	-.3	-.3	.0		1	0
6005.5	6006.5	B	8.5	242	.2	74	306	9.2	9.0	-.6	-.6	1.2		1	0
6006.0	6007.0	B	8.7	222	.2	74	305	9.2	9.0	-.8	-.2	1.3		1	0
6006.5	6007.5	A	7.5	193	.2	74	303	9.2	9.0	.5	.4	1.1		1	0
6007.0	6008.0	A	4.7	198	.2	74	302	9.2	9.0	.2	.2	.7		1	0
6007.5	6008.5	A	3.9	216	.2	74	300	9.2	9.0	.0	.0	.6		1	0
6008.0	6009.0	A	4.3	252	.2	74	299	9.2	9.0	-.8	-.4	.5		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6008.5	6009.5	B	2.4	157	.2	74	298	9.2	9.0	.1	.3			1	4
6009.0	6010.0	B	3.0	148	.2	74	297	9.2	9.0	.1	.5			1	4
6009.5	6010.5	C	35.1	45	.3	74	295	9.2	9.0		2.2		-1.9	1	2
6010.0	6011.0	B	36.2	45	.3	74	294	9.2	9.0		2.5		-1.9	1	2
6010.5	6011.5	B	31.5	83	.3	74	293	9.2	9.0	3.9			1.1	1	3
6011.0	6012.0	C	10.0	175	.3	74	292	9.2	9.0	-.3			1.1	1	3
6011.5	6012.5	A	26.4	192	.2	74	291	9.2	9.0	-1.2	.8	4.4		1	0
6012.0	6013.0	B	21.9	188	.2	74	290	9.2	9.0	-1.3	.8			1	4
6012.5	6013.5	B	24.8	170	.2	74	289	9.2	9.0	-1.4	2.1	3.6		1	0
6013.0	6014.0	B	15.1	151	.2	74	289	9.2	9.0	.2	1.9	1.6		1	0
6013.5	6014.5	A	12.4	148	.3	74	288	9.2	9.0	.1	1.6	1.2		1	0
6014.0	6015.0	A	22.1	162	.3	74	287	9.2	9.0	.1	2.2	3.0		1	0
6014.5	6015.5	C	22.6	63	.3	73	286	9.3	9.0	2.7			.2	1	3
6015.0	6016.0	C	15.3	251	.3	73	285	9.3	9.0	-1.7			-.4	1	3
6015.5	6016.5	B	9.2	188	.4	71	283	9.3	9.0	-.1	.2	1.4		1	0
6016.0	6017.0	B	5.4	198	.4	70	283	9.3	9.0	-.2	.0	.8		1	0
6016.5	6017.5	A	1.4	175	.4	68	282	9.3	9.0	.8	.1	.2		1	0
6017.0	6018.0	A	1.6	118	.4	66	281	9.2	9.0	.5	.3	.0		1	0
6017.5	6018.5	D	27.1	325	.4	66	280	9.3	9.1	.0			-3.3	1	3
6018.0	6019.0	D	27.0	324	.4	66	279	9.3	9.1	.0			-3.3	1	3
6018.5	6019.5	D	19.2	216	.4	66	279	9.3	9.1		-1.4		.7	1	2
6019.0	6020.0	D	6.4	130	.4	69	278	9.3	9.1		.9		.7	1	2
6019.5	6020.5	D	25.4	359	.4	70	278	9.3	9.1	1.9	-.6			1	4
6020.0	6021.0	D	13.9	206	.4	75	277	9.3	9.1	-2.1	-.7	2.1		1	0
6020.5	6021.5	D	23.0	322	.4	76	277	9.3	9.1		-2.7		-2.7	1	2
6021.0	6022.0	D	35.3	358	.5	75	277	9.3	9.1	2.7	-1.0			1	4
6021.5	6022.5	D	13.3	47	.5	75	277	9.3	9.1	2.2	1.5	-1.7		1	0
6022.0	6023.0	D	29.8	355	.5	74	276	9.3	9.1		-.9		-3.0	1	2
6022.5	6023.5	D	33.7	5	.5	73	276	9.3	9.1		.0		-3.1	1	2
6023.0	6024.0	D	.9	238	.5	69	276	9.3	9.1	-.1	.0	.1		1	0
6023.5	6024.5	D	1.0	262	.5	66	275	9.3	9.1	.0	-.1			1	4
6024.0	6025.0	D	6.7	234	.5	61	275	9.3	9.1	-1.0	-.8	.7		1	0
6024.5	6025.5	D	9.3	93	.5	60	273	9.3	9.1	.7	1.6	.0		1	0
6025.0	6026.0	D	22.5	24	.5	59	271	9.3	9.1		1.6		-1.0	1	2
6025.5	6026.5	D	14.1	264	.5	59	271	9.3	9.1		-2.3		-1.0	1	2
6026.0	6027.0	D	23.8	56	.5	57	270	9.3	9.1	2.9			.6	1	3
6026.5	6027.5	D	20.5	208	.5	56	270	9.3	9.1		-1.6		.7	1	2
6027.0	6028.0	D	30.9	188	.5	55	269	9.3	9.1	-3.1	-.8			1	4
6027.5	6028.5	D	13.9	202	.5	54	269	9.4	9.1	-1.3	-.8	2.0		1	0
6028.0	6029.0	D	27.4	199	.5	55	269	9.3	9.1		-1.5		1.4	1	2
6028.5	6029.5	D	10.2	284	.5	56	268	9.3	9.1		-1.5		-1.0	1	2
6029.0	6030.0	A	1.6	291	.5	55	267	9.3	9.1	.6	-.2	-.1		1	0
6029.5	6030.5	A	1.5	94	.5	56	266	9.3	9.0	-.1	.3	.0		1	0
6030.0	6031.0	A	4.3	256	.5	54	265	9.3	9.0	-.5	-.6	.1		1	0
6030.5	6031.5	A	3.4	241	.5	55	265	9.3	9.0	-.5	-.4	.2		1	0
6031.0	6032.0	A	1.9	196	.5	56	263	9.2	9.0	-.7	.0	.2		1	0
6032.0	6033.0	B	12.8	174	.6	54	262	9.2	9.0	.0	.0	2.0		1	0
6032.5	6033.5	B	6.3	204	.6	54	261	9.2	9.0	-.5	-.5	.8		1	0
6033.0	6034.0	A	3.7	240	.6	54	260	9.2	9.0	-.8	-.5	.2		1	0
6033.5	6034.5	A	12.6	283	.6	54	259	9.2	9.0	-1.5	-1.8	-.9		1	0
6034.0	6035.0	A	12.3	247	.6	53	258	9.2	9.0	-1.2	-1.9	.3		1	0
6034.5	6035.5	B	9.6	244	.6	52	258	9.2	9.0	-.4	-1.4	.3		1	0
6035.0	6036.0	A	5.0	190	.6	52	257	9.2	9.0	-.5	-.2	.7		1	0
6035.5	6036.5	B	4.1	193	.6	52	257	9.2	9.0	-.3	-.2	.5		1	0
6036.0	6037.0	A	3.2	192	.6	52	257	9.2	9.0	-.1	-.1	.4		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6036.5	6037.5	A	5.5	242	.6	52	256	9.2	8.9	-.3	-.8	.2		1	0
6037.0	6038.0	A	12.5	246	.7	51	256	9.2	8.9	-.6	-1.9	.3		1	0
6037.5	6038.5	A	1.7	237	.7	51	255	9.2	8.9	-.2	-.2	.0		1	0
6038.5	6039.5	A	2.4	48	.7	50	255	9.2	9.0	.2	.4	-.2		1	0
6039.0	6040.0	A	1.9	215	.7	50	254	9.2	9.0	-.1	-.1	.1		1	0
6039.5	6040.5	A	4.3	233	.7	50	254	9.2	8.9	-.3	-.6	.2		1	0
6040.0	6041.0	A	5.1	239	.7	51	253	9.2	8.9	-.4	-.7	.2		1	0
6040.5	6041.5	A	4.2	228	.7	51	253	9.2	8.9	-.5	-.5	.2		1	0
6041.0	6042.0	A	2.5	225	.7	51	253	9.2	8.9	-.2	-.3	.1		1	0
6041.5	6042.5	A	3.7	240	.7	51	253	9.2	8.9	-.2	-.5	.1		1	0
6042.0	6043.0	A	5.9	246	.7	51	252	9.2	8.9	-.3	-.8	.1		1	0
6042.5	6043.5	A	1.2	166	.7	52	252	9.2	8.9	.0	.1	.1		1	0
6043.0	6044.0	A	1.6	248	.7	53	252	9.2	9.0	-.1	-.2	.0		1	0
6043.5	6044.5	A	1.9	255	.7	54	251	9.2	9.0	-.1	-.2	-.1		1	0
6044.0	6045.0	A	1.4	213	.7	57	251	9.3	9.0	-.6	-.1	.1		1	0
6044.5	6045.5	A	.6	249	.7	58	251	9.3	9.0	.1	.0	.0		1	0
6045.0	6046.0	A	1.4	231	.7	59	250	9.3	9.0	-.1	-.1	.0		1	0
6045.5	6046.5	A	3.8	277	.8	59	250	9.3	9.0	-.2	-.4	-.3		1	0
6046.0	6047.0	A	24.8	203	.8	58	250	9.3	9.0	-2.8	-2.8	3.0		1	0
6046.5	6047.5	A	24.8	204	.8	56	250	9.3	9.0	-3.0	-2.8	3.0		1	0
6047.0	6048.0	A	4.6	220	.8	54	250	9.3	9.0	-.2	-.5	.3		1	0
6047.5	6048.5	B	16.2	231	.8	54	250	9.3	9.0	-.9	-2.4	.8		1	0
6048.0	6049.0	A	3.1	179	.8	55	250	9.3	9.0	.1	.0	.4		1	0
6048.5	6049.5	C	4.9	226	.8	55	249	9.3	9.0	-.1	-.6	.3		1	0
6049.0	6050.0	A	6.0	211	.8	56	249	9.3	9.0	-.5	-.6	.6		1	0
6049.5	6050.5	A	4.5	229	.8	56	249	9.3	9.0	-.4	-.6	.2		1	0
6050.0	6051.0	A	3.8	223	.8	56	249	9.3	9.0	-.3	-.4	.2		1	0
6050.5	6051.5	A	4.1	241	.8	56	249	9.3	9.0	-.4	-.5	.1		1	0
6051.0	6052.0	A	3.0	234	.8	56	248	9.3	9.0	-.2	-.3	.1		1	0
6051.5	6052.5	A	2.1	233	.8	55	248	9.3	9.0	-.1	-.2	.1		1	0
6052.0	6053.0	D	29.3	19	.8	54	247	9.3	9.1		3.6		-.1	1	2
6052.5	6053.5	B	3.9	232	.8	54	247	9.3	9.1	-.1	-.5	.1		1	0
6053.0	6054.0	A	1.5	231	.8	54	247	9.3	9.1	-.1	-.1	.0		1	0
6053.5	6054.5	A	2.1	219	.8	54	246	9.3	9.1	-.1	-.2	.1		1	0
6054.0	6055.0	B	4.2	226	.8	54	246	9.3	9.1	-.4	-.5	.2		1	0
6054.5	6055.5	A	2.3	96	.8	54	245	9.3	9.1	.4	.5	.2		1	0
6055.0	6056.0	A	1.9	145	.9	54	245	9.3	9.1	.1	.2	.3		1	0
6055.5	6056.5	A	5.3	239	.9	53	245	9.3	9.1	-.5	-.7	.1		1	0
6056.0	6057.0	A	5.3	239	.9	52	244	9.3	9.1	-.4	-.7	.1		1	0
6056.5	6057.5	B	2.6	214	.9	51	244	9.3	9.1	.3	-.2	.2		1	0
6057.0	6058.0	A	1.3	250	.9	49	244	9.3	9.1	.5	-.1	-.1		1	0
6057.5	6058.5	C	2.8	218	.9	48	244	9.3	9.1	-.4	-.3	.2		1	0
6058.0	6059.0	A	3.7	234	.9	48	244	9.3	9.1	-.2	-.5	.1		1	0
6058.5	6059.5	A	3.2	233	.9	47	244	9.3	9.1	-.1	-.4	.1		1	0
6059.0	6060.0	B	5.1	231	.9	46	244	9.3	9.1	-.6	-.7	.1		1	0
6059.5	6060.5	A	10.6	177	.9	45	245	9.3	9.1	-.7	-.5	1.5		1	0
6060.0	6061.0	A	3.7	229	.9	45	245	9.3	9.1	-.5	-.4	.1		1	0
6060.5	6061.5	A	4.1	234	.9	45	245	9.3	9.0	-.3	-.5	.1		1	0
6061.0	6062.0	A	4.2	239	.9	46	246	9.3	9.0	-.3	-.5	.0		1	0
6061.5	6062.5	A	4.7	233	.8	46	246	9.3	9.0	-.4	-.6	.1		1	0
6062.0	6063.0	A	4.7	236	.8	47	247	9.3	9.0	-.4	-.6	.1		1	0
6062.5	6063.5	A	4.3	232	.8	47	247	9.3	9.0	-.5	-.6	.1		1	0
6063.0	6064.0	A	4.2	229	.8	47	248	9.4	9.0	-.4	-.5	.2		1	0
6063.5	6064.5	A	3.9	239	.8	46	248	9.4	9.0	-.3	-.5	.0		1	0
6064.0	6065.0	A	4.1	233	.8	45	249	9.5	9.0	-.3	-.5	.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6064.5	6065.5	B	5.3	264	.8	45	250	9.5	9.0		-.7		-.5	1	2
6065.0	6066.0	A	5.9	235	.8	46	250	9.5	9.0	-.5	-.8	.2		1	0
6065.5	6066.5	A	5.7	236	.8	49	251	9.4	9.0	-.6	-.8	.2		1	0
6066.0	6067.0	A	4.4	221	.8	49	251	9.4	9.0	-.5	-.5	.3		1	0
6066.5	6067.5	D	33.5	217	.8	47	252	9.4	9.0	-4.1			-.8	1	3
6067.0	6068.0	D	6.9	238	.8	46	252	9.3	9.0	-.5	-1.0	.2		1	0
6067.5	6068.5	C	26.2	301	.8	46	252	9.3	9.0	.5	-2.9	-3.4		1	0
6068.0	6069.0	D	28.7	306	.7	46	252	9.3	8.9	.6			-3.4	1	3
6068.5	6069.5	A	8.8	93	.7	49	252	9.2	8.9	.5	1.5	.4		1	0
6069.0	6070.0	A	3.8	233	.7	49	252	9.2	8.9	-.6	-.5	.1		1	0
6069.5	6070.5	A	5.3	226	.8	51	252	9.1	8.9	-.6	-.6	.3		1	0
6070.0	6071.0	B	5.3	216	.8	52	252	9.1	8.9	-.7	-.6	.4		1	0
6070.5	6071.5	B	10.4	99	.7	51	253	9.1	8.9	.2	1.6	.7		1	0
6071.0	6072.0	B	25.5	128	.7	51	253	9.1	8.9	-.4	2.6			1	4
6071.5	6072.5	A	.7	154	.7	51	253	9.1	8.9	-.1	.1	.1		1	0
6072.0	6073.0	A	.2	79	.7	51	253	9.1	8.9	.0	.1	.0		1	0
6072.5	6073.5	A	21.9	251	.8	51	253	9.1	8.9	-1.5	-3.5	.1		1	0
6073.0	6074.0	B	23.9	252	.8	51	253	9.1	8.9	-1.4	-3.9	.0		1	0
6073.5	6074.5	C	9.4	210	.8	51	253	9.1	8.9	-1.0	-1.0			1	4
6074.0	6075.0	D	16.3	184	.8	52	253	9.1	8.9	-1.6	-.8			1	4
6074.5	6075.5	A	7.4	258	.8	53	254	9.1	8.9	-.5	-1.1	-.1		1	0
6075.0	6076.0	B	7.3	253	.8	54	254	9.1	8.9	-.5	-1.0	.0		1	0
6075.5	6076.5	A	7.4	250	.8	55	254	9.1	8.9	-.6	-1.1	.0		1	0
6076.0	6077.0	B	5.5	243	.8	56	254	9.1	8.9	-1.3	-.7	.1		1	0
6076.5	6077.5	B	6.0	236	.8	59	254	9.1	8.9	-.8	-.8	.3		1	0
6077.0	6078.0	C	10.8	281	.8	61	254	9.1	8.9	.4	-1.4	-.8		1	0
6077.5	6078.5	B	4.7	58	.8	63	254	9.2	8.9	.5			.3	1	3
6078.0	6079.0	A	8.4	260	.8	62	253	9.2	8.9	.3	-1.2	-.2		1	0
6078.5	6079.5	A	13.7	222	.8	60	254	9.3	8.9	-1.4	-1.8	1.1		1	0
6079.0	6080.0	A	10.3	230	.7	59	254	9.3	8.9	-1.2	-1.4	.6		1	0
6079.5	6080.5	A	3.6	330	.7	61	254	9.3	8.9	-.1	.0	-.6		1	0
6080.0	6081.0	D	21.3	133	.8	61	254	9.2	8.9	-.5			2.5	1	3
6081.0	6082.0	A	12.9	201	.8	59	253	9.2	8.9	-.9	-1.1	1.6		1	0
6081.5	6082.5	D	16.4	235	.8	57	253	9.2	9.0	-1.3	-2.4	.8		1	0
6082.0	6083.0	A	6.0	198	.8	56	253	9.2	9.0	.2	-.4	.7		1	0
6082.5	6083.5	A	1.2	279	.8	53	253	9.2	9.1	.1	-.1	-.1		1	0
6083.0	6084.0	A	5.5	312	.8	53	253	9.2	9.1	.1	-.3	-.8		1	0
6083.5	6084.5	D	18.3	73	.8	53	252	9.2	9.1	.7	3.2	.0		1	0
6084.0	6085.0	D	26.7	145	.8	54	252	9.2	9.1	-1.4	1.5			1	4
6084.5	6085.5	D	32.9	73	.8	57	252	9.3	9.0	3.0			3.1	1	3
6085.0	6086.0	D	33.2	72	.8	58	252	9.3	9.0	3.1			3.1	1	3
6085.5	6086.5	D	22.7	329	.8	58	251	9.3	9.0		-.7		-2.2	1	2
6086.0	6087.0	D	29.9	332	.8	58	251	9.3	9.0		-.7		-2.9	1	2
6086.5	6087.5	D	14.7	71	.9	57	251	9.3	9.0	1.5	2.6	.0		1	0
6087.0	6088.0	D	18.1	236	.9	57	251	9.3	9.0	-2.2	-2.8	.7		1	0
6087.5	6088.5	D	16.0	258	.9	54	250	9.3	9.0		-2.5		-1.4	1	2
6088.0	6089.0	D	24.9	17	.9	53	250	9.3	9.0	3.1	2.7			1	4
6088.5	6089.5	D	40.0	183	.9	51	249	9.3	9.0		-3.0		1.9	1	2
6089.0	6090.0	D	8.7	79	.9	51	249	9.3	9.0	1.2	1.5	.2		1	0
6089.5	6090.5	D	14.0	74	.9	51	249	9.3	9.0	1.0	2.5	.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5728.5	5729.5	D	3.3	214	1.2	358	111	9.7	9.4		.2		-.1	1	2
5729.0	5730.0	D	3.8	178	1.2	358	110	9.7	9.4	-.2	-.2	-.4		1	0
5729.5	5730.5	D	35.3	188	1.2	357	110	9.7	9.4	2.4	-1.4			1	4
5730.0	5731.0	D	11.1	113	1.2	358	110	9.7	9.4		-1.8		-.9	1	2
5730.5	5731.5	D	6.4	46	1.2	358	109	9.7	9.4	-.4	-.4	1.1		1	0
5731.0	5732.0	C	3.3	41	1.2	357	108	9.7	9.4	.0	-.1	.7		1	0
5731.5	5732.5	C	2.7	231	1.2	357	108	9.7	9.4	-.1	.3	-.2		1	0
5732.0	5733.0	B	4.0	9	1.2	357	107	9.7	9.4	.4	.2	.8		1	0
5732.5	5733.5	C	2.1	181	1.2	357	107	9.7	9.4	.1	.0	-.1		1	0
5733.0	5734.0	D	8.1	157	1.2	357	105	9.7	9.4	.1	-.8	-.9		1	0
5733.5	5734.5	C	6.2	175	1.2	357	105	9.7	9.4	.3	-.3	-.8		1	0
5734.0	5735.0	D	17.9	25	1.2	357	104	9.7	9.4	-1.3	-.6	3.2		1	0
5734.5	5735.5	C	12.2	227	1.2	357	104	9.7	9.4		1.2		-.2	1	2
5735.5	5736.5	D	4.6	122	1.2	356	103	9.7	9.4	-.3	-.7			1	4
5736.0	5737.0	C	8.0	79	1.2	356	102	9.7	9.4	-1.0	-1.2	.7		1	0
5736.5	5737.5	D	27.6	54	1.1	356	101	9.7	9.4	-3.6			.2	1	3
5737.0	5738.0	C	5.5	337	1.1	355	101	9.7	9.4	.0	.6	.9		1	0
5737.5	5738.5	C	1.5	331	1.1	355	100	9.7	9.4	-.1	.2	.4		1	0
5738.0	5739.0	A	1.3	88	1.1	354	99	9.7	9.4	-.1	-.2	.2		1	0
5738.5	5739.5	B	.9	149	1.1	353	99	9.7	9.4	.1	.0	.1		1	0
5739.0	5740.0	C	4.0	199	1.1	353	99	9.7	9.4	.7	.2	-.5		1	0
5739.5	5740.5	D	23.0	323	1.1	353	98	9.7	9.4	.0			3.0	1	3
5740.5	5741.5	C	.7	25	1.1	353	97	9.7	9.4	-.2	.0	.3		1	0
5741.0	5742.0	D	.6	125	1.1	353	97	9.7	9.4	-.3	.0	.1		1	0
5741.5	5742.5	D	1.9	123	1.1	353	96	9.7	9.4	-.1	-.2	.0		1	0
5742.0	5743.0	B	11.3	109	1.1	352	96	9.7	9.4	-.4	-1.8	-.3		1	0
5742.5	5743.5	D	3.7	143	1.1	352	95	9.7	9.4	-.1	-.4	-.3		1	0
5743.0	5744.0	B	1.2	89	1.1	352	94	9.7	9.4	-.1	-.2	.2		1	0
5743.5	5744.5	C	.9	59	1.1	352	94	9.7	9.4	-.1	-.1	.3		1	0
5744.0	5745.0	C	.6	58	1.1	351	93	9.7	9.4	-.1	.0	.2		1	0
5744.5	5745.5	B	.5	139	1.1	350	93	9.7	9.4	-.1	.0	.1		1	0
5745.0	5746.0	A	1.0	102	1.1	349	92	9.7	9.4	-.1	-.1	.1		1	0
5745.5	5746.5	A	.4	117	1.1	349	92	9.7	9.4	.0	.0	.1		1	0
5746.0	5747.0	A	.3	269	1.1	349	91	9.7	9.4	.1	.1	.2		1	0
5746.5	5747.5	B	.7	290	1.1	349	90	9.7	9.4	.0	.2	.2		1	0
5747.0	5748.0	D	1.9	349	1.1	349	89	9.7	9.4	-.3	.1	.5		1	0
5747.5	5748.5	D	2.0	358	1.1	348	89	9.7	9.4	-.2	.0	.5		1	0
5748.0	5749.0	B	1.3	10	1.1	348	88	9.7	9.4	-.2	.0	.4		1	0
5748.5	5749.5	D	1.1	11	1.1	348	87	9.7	9.4	-.2	.0	.3		1	0
5749.0	5750.0	C	1.6	207	1.1	349	86	9.7	9.4	.4	.2	.0		1	0
5749.5	5750.5	B	2.2	231	1.1	349	86	9.7	9.4	.3	.3	.0		1	0
5750.0	5751.0	C	3.5	308	1.0	348	85	9.7	9.4	.1	.5	.6		1	0
5750.5	5751.5	D	3.7	337	1.0	348	84	9.7	9.4	-.3			.5	1	3
5751.0	5752.0	D	2.9	353	1.0	347	84	9.8	9.4	-.4	.0	.6		1	0
5751.5	5752.5	D	1.5	347	1.0	347	83	9.8	9.4	-.5	.0	.4		1	0
5752.0	5753.0	C	2.7	28	1.0	347	83	9.8	9.5	-.7	-.2	.5		1	0
5752.5	5753.5	D	2.7	61	1.0	346	82	9.8	9.5	-.4			.0	1	3
5753.0	5754.0	D	24.3	310	1.0	345	81	9.8	9.5	-.2	2.9			1	4
5753.5	5754.5	C	25.8	311	1.0	345	81	9.8	9.5	-.3	3.0			1	4
5754.0	5755.0	D	.3	130	1.0	345	80	9.8	9.5	-.4	.0	.1		1	0
5754.5	5755.5	B	2.0	113	1.0	345	80	9.8	9.5	-.3	-.3	.0		1	0
5755.0	5756.0	B	.9	132	1.0	345	79	9.8	9.5	-.3	-.1	.0		1	0
5755.5	5756.5	C	.8	327	1.0	345	78	9.8	9.5	-.2	.1	.3		1	0
5756.0	5757.0	D	1.2	39	1.0	345	78	9.8	9.5	-.2	-.2	.3		1	0
5756.5	5757.5	D	1.7	133	1.0	345	77	9.8	9.5	.0	-.2			1	4

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5757.0	5758.0	D	2.3	13	1.0	344	76	9.8	9.5	-.2	-.2	.5		1	0
5757.5	5758.5	D	12.5	68	1.0	344	76	9.8	9.5	-1.5	-2.1	.4		1	0
5758.0	5759.0	D	3.9	340	1.0	343	75	9.8	9.5		.1		.4	1	2
5758.5	5759.5	C	2.3	218	1.0	343	74	9.8	9.5	.8	.3	-.1		1	0
5759.0	5760.0	D	1.4	86	1.0	342	74	9.8	9.5		-.2		-.1	1	2
5759.5	5760.5	D	3.5	344	1.0	341	73	9.8	9.5	-.4	.0			1	4
5760.0	5761.0	D	2.3	120	1.0	341	72	9.8	9.5	.3	-.3	-.1		1	0
5760.5	5761.5	C	5.7	146	1.0	341	71	9.8	9.5	.1	-.2	-.8		1	0
5761.0	5762.0	D	11.0	249	.9	340	70	9.8	9.5	.1	1.9	.1		1	0
5761.5	5762.5	D	25.1	351	.9	340	69	9.8	9.5	-2.8			1.8	1	3
5762.0	5763.0	B	2.4	122	.9	340	68	9.8	9.5	-.2	-.2	-.2		1	0
5762.5	5763.5	B	4.3	101	.9	340	67	9.8	9.5	-.2	-.6	-.2		1	0
5763.0	5764.0	B	3.9	75	.9	341	66	9.8	9.5	-.3	-.7	.0		1	0
5763.5	5764.5	C	3.7	66	.9	341	66	9.8	9.5	-.4	-.7	.1		1	0
5764.0	5765.0	B	3.0	86	.9	341	65	9.8	9.6	.0	-.5	.0		1	0
5764.5	5765.5	D	34.8	334	.9	341	64	9.9	9.6	-3.4	.0			1	4
5765.0	5766.0	C	2.7	92	.9	340	63	9.9	9.6	.1	-.4	-.1		1	0
5765.5	5766.5	B	15.5	83	.9	340	63	9.9	9.6	.0	-2.6	-.8		1	0
5766.0	5767.0	A	2.5	99	.8	340	62	9.9	9.6	-.1	-.4	-.1		1	0
5766.5	5767.5	A	2.4	91	.8	341	61	9.9	9.6	-.1	-.4	-.1		1	0
5767.0	5768.0	D	2.9	59	.8	341	60	9.9	9.6	-.2	-.5	.1		1	0
5767.5	5768.5	B	5.5	169	.8	341	60	9.9	9.6	.4	.3	-.7		1	0
5768.0	5769.0	A	2.5	218	.8	340	59	9.9	9.6	.1	.4	.0		1	0
5768.5	5769.5	A	2.4	205	.8	340	58	9.9	9.6	.3	.3	-.1		1	0
5769.0	5770.0	A	.9	237	.8	340	57	10.0	9.6	.0	.1	.1		1	0
5769.5	5770.5	A	.4	202	.8	340	56	10.0	9.7	.0	.0	.1		1	0
5770.0	5771.0	B	3.7	145	.8	340	56	10.0	9.7	.2	.0	-.5		1	0
5770.5	5771.5	A	3.3	147	.8	340	54	10.0	9.7	.3	.0	-.4		1	0
5771.0	5772.0	A	2.8	259	.8	340	54	10.0	9.7	.1	.4	.3		1	0
5771.5	5772.5	A	2.4	263	.8	341	53	10.0	9.7	.0	.3	.3		1	0
5772.0	5773.0	A	.8	254	.8	341	52	10.0	9.7	.0	.1	.2		1	0
5772.5	5773.5	A	2.0	103	.8	341	51	10.0	9.7	.0	-.3	-.1		1	0
5773.0	5774.0	A	1.8	161	.7	340	50	10.0	9.7	.3	.1	-.2		1	0
5773.5	5774.5	A	2.0	174	.7	340	49	10.0	9.7	.2	.2	-.2		1	0
5774.0	5775.0	A	3.0	172	.7	340	49	10.0	9.7	.3	.2	-.3		1	0
5774.5	5775.5	A	.7	16	.7	340	47	10.0	9.7	-.1	-.2	.2		1	0
5775.0	5776.0	A	2.5	19	.7	340	46	10.0	9.7	-.3	-.4	.3		1	0
5775.5	5776.5	A	.5	338	.7	343	45	10.0	9.7	.0	-.1	.2		1	0
5776.0	5777.0	B	5.5	225	.7	344	44	10.1	9.7	.5	.9	.1		1	0
5776.5	5777.5	A	2.3	32	.7	346	43	10.2	9.7	.0	-.5	.2		1	0
5777.0	5778.0	A	4.8	44	.7	346	42	10.3	9.7	-.4	-.9	.1		1	0
5777.5	5778.5	B	14.4	163	.7	345	42	10.3	9.8	1.7			-.4	1	3
5778.0	5779.0	A	1.0	150	.7	345	42	10.3	9.8	.0	.0	-.1		1	0
5778.5	5779.5	A	1.6	110	.7	344	43	10.1	9.7	.0	-.2	-.1		1	0
5779.0	5780.0	A	3.4	99	.7	344	43	10.0	9.7	-.1	-.4	-.4		1	0
5779.5	5780.5	A	5.0	144	.7	345	42	9.9	9.7	.4	.1	-.7		1	0
5780.0	5781.0	A	5.4	135	.7	345	42	9.9	9.7	.2	.0	-.8		1	0
5780.5	5781.5	A	2.9	55	.7	344	41	9.9	9.6	-.3	-.5	.0		1	0
5781.0	5782.0	A	2.3	103	.7	344	41	9.9	9.6	.1	-.2	-.3		1	0
5781.5	5782.5	A	2.8	120	.7	343	40	9.9	9.6	.2	-.1	-.4		1	0
5782.0	5783.0	A	2.5	107	.7	342	39	9.9	9.6	.2	-.2	-.3		1	0
5782.5	5783.5	A	1.1	162	.6	342	38	9.9	9.6	.0	.0	-.1		1	0
5783.0	5784.0	A	1.0	164	.6	341	38	9.9	9.6	.1	.0	.0		1	0
5783.5	5784.5	A	.9	129	.6	343	36	9.8	9.6	.0	-.1	-.1		1	0
5784.0	5785.0	A	1.6	134	.6	343	36	9.8	9.6	.1	.0	-.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5784.5	5785.5	B	10.6	66	.6	344	35	9.8	9.6	-.1	-1.6	-.8		1	0
5785.0	5786.0	B	10.8	66	.6	343	35	9.8	9.6	-.2	-1.7	-.9		1	0
5785.5	5786.5	B	24.0	50	.6	341	34	9.8	9.6	-1.6			-2.7	1	3
5786.0	5787.0	D	14.2	234	.6	340	34	9.8	9.6		2.3		1.6	1	2
5786.5	5787.5	D	22.5	313	.6	339	33	9.8	9.6	-2.4			1.6	1	3
5787.0	5788.0	D	22.5	313	.6	339	33	9.8	9.6	-2.4			1.6	1	3
5787.5	5788.5	D	18.0	301	.6	339	33	9.8	9.6		.0		1.6	1	2
5788.0	5789.0	D	14.2	15	.6	339	33	9.8	9.6	-1.6			-.8	1	3
5788.5	5789.5	D	18.5	226	.6	338	33	9.8	9.6	1.1	3.1	.8		1	0
5789.0	5790.0	D	16.0	228	.6	338	33	9.8	9.5	.8	2.6	.8		1	0
5789.5	5790.5	D	4.7	298	.6	338	33	9.7	9.5	.0	.0	.9		1	0
5790.0	5791.0	D	35.0	124	.6	338	33	9.7	9.5		.0		-3.3	1	2
5790.5	5791.5	D	4.2	301	.6	338	33	9.7	9.5	-1.1	.0	.8		1	0
5791.0	5792.0	D	18.8	303	.6	337	34	9.7	9.4		.0		1.6	1	2
5791.5	5792.5	D	22.5	23	.6	337	34	9.7	9.4	-2.4			-1.6	1	3
5792.0	5793.0	C	20.5	174	.6	336	35	9.7	9.4	2.4			.2	1	3
5792.5	5793.5	A	5.7	21	.6	334	35	9.6	9.4	-.4	-1.0	.3		1	0
5793.0	5794.0	A	4.5	24	.6	333	36	9.6	9.4	-.4	-.8	.2		1	0
5793.5	5794.5	A	2.0	26	.6	333	37	9.6	9.4	-.2	-.4	.2		1	0
5794.0	5795.0	A	1.8	215	.7	333	37	9.6	9.4	.2	.2	.1		1	0
5794.5	5795.5	A	2.2	110	.7	333	38	9.5	9.3	.0	-.2	-.2		1	0
5795.0	5796.0	A	2.4	112	.7	333	38	9.5	9.3	.0	-.2	-.3		1	0
5795.5	5796.5	B	6.8	89	.7	333	38	9.5	9.3	.1	-.8	-.8		1	0
5796.0	5797.0	B	8.5	96	.6	333	38	9.5	9.2	.4	-.8	-1.1		1	0
5796.5	5797.5	A	9.7	82	.6	333	39	9.5	9.2	.0	-1.2	-1.0		1	0
5797.0	5798.0	A	9.5	76	.6	332	39	9.4	9.2	.0	-1.3	-.8		1	0
5797.5	5798.5	A	3.4	94	.6	332	39	9.4	9.2	.1	-.4	-.4		1	0
5798.0	5799.0	A	6.7	92	.7	332	39	9.4	9.2	-.1	-.7	-.8		1	0
5798.5	5799.5	A	6.8	91	.7	332	39	9.4	9.2	-.1	-.7	-.8		1	0
5799.0	5800.0	B	13.2	130	.7	332	39	9.4	9.2	1.0	.0			1	4
5799.5	5800.5	B	12.2	323	.7	332	39	9.4	9.2	-1.3	-.6			1	4
5800.0	5801.0	C	19.6	307	.7	331	39	9.4	9.1	-1.7	.0			1	4
5800.5	5801.5	A	10.0	71	.7	330	39	9.4	9.1	-.2	-1.4	-.8		1	0
5801.0	5802.0	B	10.2	69	.7	329	38	9.3	9.1	-.3	-1.5	-.7		1	0
5801.5	5802.5	C	10.6	47	.7	329	38	9.3	9.0		-1.8		-1.0	1	2
5802.0	5803.0	B	10.0	46	.7	329	38	9.2	9.0	-.9	-1.7	-.1		1	0
5802.5	5803.5	B	9.1	95	.7	329	39	9.2	8.9	.2	-.9	-1.1		1	0
5803.0	5804.0	D	13.7	312	.7	329	40	9.1	8.8	-1.2			1.1	1	3
5804.0	5805.0	B	19.4	214	.7	329	42	9.0	8.8		3.1		1.4	1	2
5804.5	5805.5	C	29.3	142	.7	329	43	9.0	8.8	2.7	.7			1	4
5805.0	5806.0	A	1.5	268	.7	329	44	9.0	8.7	-.1	.1	.3		1	0
5805.5	5806.5	B	12.0	87	.7	328	44	9.0	8.7	.8	-1.4	-1.1		1	0
5806.0	5807.0	A	8.2	81	.7	327	45	9.0	8.7	.4	-1.1	-.6		1	0
5806.5	5807.5	A	7.2	75	.7	327	45	9.0	8.7	.0	-1.0	-.4		1	0
5807.0	5808.0	A	.4	99	.8	327	45	9.0	8.7	-.3	-.1	.1		1	0
5807.5	5808.5	A	3.6	45	.8	327	45	9.0	8.7	.1	-.6	.1		1	0
5808.0	5809.0	A	1.8	22	.8	327	44	9.0	8.8	-.2	-.3	.2		1	0
5808.5	5809.5	A	11.3	336	.8	326	45	9.0	8.8	-1.2	-.7	1.8		1	0
5809.0	5810.0	A	4.7	317	.8	327	45	9.1	8.8	-.3	.0	.9		1	0
5809.5	5810.5	D	18.4	350	.9	328	46	9.1	8.8	-2.1	-1.7			1	4
5810.0	5811.0	D	15.0	220	.8	328	47	9.1	8.8	1.9	2.4	-.2		1	0
5810.5	5811.5	B	8.4	330	.8	328	49	9.0	8.8	-1.5	-.3	1.4		1	0
5811.0	5812.0	B	9.6	334	.8	328	49	9.0	8.8	-1.5	-.4	1.6		1	0
5811.5	5812.5	D	8.1	324	.8	327	50	9.0	8.8	-1.7	-.1	1.4		1	0
5812.0	5813.0	D	8.1	116	.8	327	49	9.0	8.8	-.2	-.5	-1.0		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5812.5	5813.5	D	25.7	96	.8	328	49	9.0	8.9	.0	-2.9			1	4
5813.0	5814.0	B	.9	85	.8	331	48	9.2	8.9	.1	-.1	.0		1	0
5813.5	5814.5	B	2.2	155	.8	332	48	9.3	9.0	.0	.1	-.2		1	0
5814.0	5815.0	B	4.1	311	.8	333	47	9.5	9.2	-.4	.0			1	4
5814.5	5815.5	B	5.5	349	.8	331	47	9.5	9.2	-.4	-.5	.9		1	0
5815.0	5816.0	D	9.5	113	.8	328	47	9.4	9.0	.4	-.7	-1.2		1	0
5815.5	5816.5	D	7.4	91	.8	327	47	9.3	8.9		-.9		-.8	1	2
5816.0	5817.0	C	37.6	96	.8	325	46	9.1	8.9	.3	-4.5			1	4
5816.5	5817.5	C	5.1	153	.8	324	46	9.1	8.8	.2	.2	-.6		1	0
5817.0	5818.0	C	3.0	116	.7	324	45	9.1	8.8	-.5	-.2	-.3		1	0
5817.5	5818.5	B	10.0	134	.7	325	45	9.1	8.8	.8	-.1	-1.4		1	0
5818.0	5819.0	A	12.9	129	.7	326	44	9.1	8.7	1.1	-.2	-1.9		1	0
5818.5	5819.5	B	12.4	132	.7	325	44	9.1	8.6	.9	-.1	-1.8		1	0
5819.0	5820.0	A	1.8	175	.7	324	42	9.1	8.6	.5	.2	-.1		1	0
5819.5	5820.5	B	3.0	176	.7	323	42	9.0	8.6	.6	.3	-.2		1	0
5820.0	5821.0	D	8.1	139	.7	321	42	9.0	8.6	.9	.1	-1.1		1	0
5820.5	5821.5	C	21.6	245	.7	320	42	8.9	8.6	.9	3.3			1	4
5821.0	5822.0	C	37.6	160	.7	318	43	8.9	8.6		3.0		-1.4	1	2
5821.5	5822.5	D	17.1	162	.7	318	44	8.9	8.6	1.8	1.3	-2.2		1	0
5822.0	5823.0	C	7.2	30	.8	319	47	8.9	8.7	-1.6	-1.1	.4		1	0
5822.5	5823.5	B	8.4	19	.8	320	48	8.9	8.7	-1.1	-1.2	.7		1	0
5823.0	5824.0	C	5.1	119	.9	322	50	9.0	8.7	-.2	-.3	-.6		1	0
5824.5	5825.5	D	28.3	263	.8	322	50	9.1	8.6	.7	4.1			1	4
5825.0	5826.0	D	7.7	62	.8	322	48	9.1	8.6	-.5	-1.2	-.2		1	0
5825.5	5826.5	C	7.9	12	.7	322	47	9.1	8.6	-.2	-1.1	.8		1	0
5826.0	5827.0	A	9.9	146	.7	323	43	9.1	8.7	.5	.3	-1.4		1	0
5826.5	5827.5	D	12.9	139	.7	322	42	9.1	8.7	1.1	.3	-1.9		1	0
5827.0	5828.0	D	9.9	142	.7	318	40	9.0	8.8	.9			-.5	1	3
5827.5	5828.5	D	30.0	100	.7	317	39	9.0	8.8	.9	-2.5			1	4
5828.0	5829.0	B	18.4	74	.7	316	38	9.0	8.8	-.9	-2.4	-1.6		1	0
5828.5	5829.5	C	20.3	73	.7	316	38	9.0	8.8	-.8	-2.7	-1.8		1	0
5829.0	5830.0	B	10.1	113	.7	316	36	8.9	8.8	.6	-.4	-1.4		1	0
5829.5	5830.5	A	10.3	85	.7	315	35	8.9	8.8	.5	-1.1	-1.1		1	0
5830.0	5831.0	D	22.0	207	.7	314	34	8.9	8.7	1.9			1.6	1	3
5830.5	5831.5	A	17.1	37	.7	314	33	8.9	8.7	-.5	-2.8	-.1		1	0
5831.0	5832.0	C	13.6	69	.8	316	34	9.0	8.7	-.2	-1.8	-1.1		1	0
5831.5	5832.5	B	35.9	279	.8	317	35	9.0	8.6		2.9		4.3	1	2
5832.5	5833.5	D	17.1	349	.7	319	38	9.0	8.7		-1.9		.1	1	2
5833.5	5834.5	D	35.1	115	.7	319	38	9.0	8.8		-1.5		-3.7	1	2
5834.0	5835.0	D	30.1	95	.7	319	39	9.0	8.8	.6	-2.9			1	4
5834.5	5835.5	C	18.0	258	.7	319	40	9.0	8.9	.2	2.3			1	4
5835.0	5836.0	D	10.0	255	.7	319	43	9.0	8.9	-.7	1.3	.9		1	0
5835.5	5836.5	D	5.9	329	.7	319	44	9.1	8.9	.1	-.2	1.0		1	0
5836.0	5837.0	A	6.5	143	.7	320	46	9.1	8.8	.9	.1	-.9		1	0
5836.5	5837.5	A	7.0	127	.7	321	46	9.1	8.8	.4	-.2	-1.0		1	0
5837.0	5838.0	A	9.3	138	.7	321	46	9.1	8.8	.4	.0	-1.3		1	0
5837.5	5838.5	A	10.8	158	.7	321	46	9.1	8.8	.3	.6	-1.5		1	0
5838.0	5839.0	A	7.6	190	.7	321	46	9.1	8.8	1.1	1.0	-.6		1	0
5838.5	5839.5	B	8.6	284	.7	321	47	9.1	8.7	-.2	.7			1	4
5839.0	5840.0	B	1.7	101	.8	322	48	9.1	8.7	.0	-.2			1	4
5839.5	5840.5	B	11.1	61	.8	322	49	9.1	8.7	-.9	-1.7	-.2		1	0
5840.0	5841.0	B	5.8	202	.8	322	50	9.0	8.7	1.3	.8	-.3		1	0
5840.5	5841.5	C	10.7	170	.8	322	51	9.0	8.7	1.2	.8	-1.3		1	0
5841.0	5842.0	B	4.1	135	.8	322	52	9.0	8.7	1.0	-.1	-.5		1	0
5841.5	5842.5	A	5.7	171	.8	323	53	9.0	8.7	-.4	.4	-.6		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5842.0	5843.0	B	9.6	146	.8	323	54	9.0	8.7	1.3	.1	-1.3		1	0
5842.5	5843.5	C	17.9	247	.8	323	54	9.0	8.6	1.0			1.8	1	3
5843.0	5844.0	C	4.7	230	.9	322	55	8.9	8.6	.3			.4	1	3
5843.5	5844.5	C	15.9	44	.9	321	57	8.9	8.6	-1.1	-2.5	.7		1	0
5844.0	5845.0	D	9.5	282	.9	322	58	8.9	8.7		1.1		1.1	1	2
5844.5	5845.5	D	3.0	167	.9	324	58	8.9	8.7	.8	.2	-.3		1	0
5845.0	5846.0	B	2.5	251	.9	324	58	8.9	8.7	.8	.4	.2		1	0
5845.5	5846.5	C	2.0	136	.8	323	57	8.9	8.7	.8	-.1	-.2		1	0
5846.0	5847.0	D	3.3	122	.8	321	55	8.9	8.7	.6	-.2	-.3		1	0
5846.5	5847.5	C	6.2	103	.8	320	55	8.9	8.8	-.2	-.6	-.6		1	0
5847.0	5848.0	D	19.2	289	.8	319	54	8.9	8.8	-.2	1.8	2.6		1	0
5847.5	5848.5	D	24.5	331	.8	318	53	8.9	8.8	-2.6	-.5	4.1		1	0
5848.0	5849.0	D	34.1	126	.8	317	51	8.9	8.8	2.0	-1.6			1	4
5848.5	5849.5	C	13.1	120	.7	316	49	9.0	8.8	.6	-.7			1	4
5849.0	5850.0	D	30.9	336	.7	315	46	9.0	8.8		-1.9		1.6	1	2
5849.5	5850.5	D	16.2	330	.7	314	44	9.0	8.7	-1.6			.9	1	3
5850.0	5851.0	C	15.7	324	.7	313	44	9.1	8.7		-.4		1.1	1	2
5850.5	5851.5	C	7.2	255	.7	313	44	9.1	8.7	.2			.8	1	3
5851.0	5852.0	A	10.3	317	.7	315	45	9.2	8.7	-.8	-.1	1.7		1	0
5851.5	5852.5	A	5.5	14	.8	316	46	9.1	8.8	-1.2	-.8	.6		1	0
5852.0	5853.0	D	30.3	101	.8	317	46	9.1	8.8	.5			-3.6	1	3
5852.5	5853.5	D	28.6	99	.8	317	47	9.1	8.8	.3			-3.3	1	3
5853.0	5854.0	A	19.1	140	.8	316	47	9.0	8.8	1.8	.2	-2.9		1	0
5853.5	5854.5	D	24.2	135	.7	316	48	9.0	8.8		-.2		-2.0	1	2
5854.0	5855.0	D	34.9	136	.8	316	49	8.9	8.8		-.3		-3.1	1	2
5854.5	5855.5	D	18.2	91	.8	316	50	8.9	8.7	-.3	-2.2	-1.8		1	0
5855.0	5856.0	C	10.4	15	.8	316	51	8.9	8.7	-1.2			-.1	1	3
5855.5	5856.5	C	2.1	340	.8	317	52	8.9	8.7	-.3			.2	1	3
5856.0	5857.0	A	5.7	250	.8	318	53	8.9	8.7	-.7	.9	.4		1	0
5856.5	5857.5	D	7.2	216	.8	320	54	8.9	8.7		1.1		.4	1	2
5857.0	5858.0	D	18.6	2	.8	321	54	8.9	8.7		-1.8		.3	1	2
5857.5	5858.5	B	22.3	168	.8	323	55	8.9	8.7		1.4		-.9	1	2
5858.0	5859.0	C	25.6	157	.8	323	55	8.9	8.7	2.4			-1.5	1	3
5858.5	5859.5	C	22.5	291	.8	321	54	8.9	8.7	-.1	2.0	3.2		1	0
5859.0	5860.0	B	8.3	251	.8	320	53	8.9	8.7	-.4	1.2	.5		1	0
5859.5	5860.5	D	10.3	295	.8	317	51	8.9	8.7	-.5	.7	1.5		1	0
5860.0	5861.0	C	13.7	68	.8	316	50	8.9	8.8	-.8	-2.1			1	4
5860.5	5861.5	C	13.9	79	.8	315	49	8.9	8.8	-.5			-1.4	1	3
5861.0	5862.0	C	10.5	96	.8	316	49	8.9	8.8	-.3	-1.1	-1.1		1	0
5861.5	5862.5	C	12.9	64	.8	318	48	9.0	8.8	-1.0	-2.0	-.4		1	0
5862.0	5863.0	B	3.6	67	.8	319	48	9.0	8.8	-.4	-.5	-.1		1	0
5862.5	5863.5	A	20.1	279	.8	319	47	9.0	8.8	.1	2.0	2.7		1	0
5863.0	5864.0	A	16.0	281	.8	319	47	9.0	8.7	.1	1.5	2.2		1	0
5863.5	5864.5	C	27.9	254	.8	322	46	9.0	8.7	.9			3.2	1	3
5864.0	5865.0	B	27.6	260	.8	322	46	9.0	8.7	.6	3.9	2.7		1	0
5864.5	5865.5	B	25.4	256	.8	320	47	9.0	8.7	.8			2.9	1	3
5865.0	5866.0	A	5.5	255	.8	318	47	9.0	8.7	.3	.8	.5		1	0
5865.5	5866.5	C	17.2	35	.8	315	48	9.0	8.7	-1.7	-2.7			1	4
5866.0	5867.0	D	25.3	332	.8	315	48	9.0	8.7		-1.0		1.6	1	2
5866.5	5867.5	D	35.0	91	.8	317	49	9.0	8.7	-.3	-4.6			1	4
5867.0	5868.0	D	31.8	275	.8	316	49	9.0	8.7	-.4	3.9	4.0		1	0
5867.5	5868.5	A	6.3	231	.8	314	49	9.0	8.6	.5	1.0	.2		1	0
5868.0	5869.0	B	26.7	276	.8	313	49	8.9	8.6	.2	3.1	3.3		1	0
5868.5	5869.5	D	21.4	262	.8	313	47	8.9	8.7	.4	2.9			1	4
5869.0	5870.0	C	9.4	206	.8	313	47	8.9	8.7	.3	1.4	-.4		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5869.5	5870.5	B	11.0	238	.8	313	45	8.9	8.8	.5	1.7	.5		1	0
5870.0	5871.0	A	16.8	247	.8	313	45	9.0	8.8	.9	2.5	1.1		1	0
5870.5	5871.5	D	19.7	73	.8	313	45	9.0	8.8	.1	-2.9	-1.3		1	0
5871.0	5872.0	D	28.2	294	.8	314	46	9.0	8.7		1.8		3.2	1	2
5872.0	5873.0	C	4.3	246	.8	315	47	9.1	8.6	.1	.6	.3		1	0
5872.5	5873.5	A	8.1	239	.7	312	45	9.1	8.6	.1	1.3	.4		1	0
5873.0	5874.0	A	8.5	244	.7	311	44	9.0	8.6	.4	1.3	.5		1	0
5873.5	5874.5	D	13.6	264	.7	308	40	9.0	8.7	.0			1.6	1	3
5874.0	5875.0	D	28.4	169	.7	308	38	9.0	8.8	3.3			-.2	1	3
5874.5	5875.5	C	20.0	209	.7	310	37	9.0	8.8	1.8			1.4	1	3
5875.0	5876.0	B	16.6	204	.7	311	37	9.0	8.8	1.6			1.1	1	3
5875.5	5876.5	A	20.8	212	.7	311	38	9.0	8.9	.9	3.4	-.3		1	0
5876.0	5877.0	B	14.2	335	.7	310	38	9.0	8.8	-1.6	-1.1			1	4
5876.5	5877.5	C	19.2	254	.6	308	38	9.0	8.8	.3	2.5			1	4
5877.0	5878.0	B	13.9	152	.6	308	37	8.9	8.8	1.1	.9	-1.9		1	0
5877.5	5878.5	A	18.6	93	.6	307	36	8.9	8.8	.4	-1.6	-2.4		1	0
5878.0	5879.0	C	18.6	88	.6	307	35	8.9	8.7	.3	-1.8	-2.2		1	0
5878.5	5879.5	D	18.1	31	.6	307	34	8.9	8.7	-1.6			-1.3	1	3
5879.0	5880.0	D	11.7	356	.6	307	33	9.0	8.7	-1.3			-.1	1	3
5880.0	5881.0	D	24.3	78	.6	306	29	9.0	8.6	.1			-2.7	1	3
5880.5	5881.5	D	13.5	243	.6	304	26	9.0	8.6	.2			1.5	1	3
5881.0	5882.0	C	15.5	221	.6	302	23	9.0	8.6	.8			1.6	1	3
5881.5	5882.5	B	3.4	309	.5	293	11	8.9	8.6	-1.1	-.3	.5		1	0
5882.0	5883.0	B	23.1	276	.4	292	5	8.9	8.6		.0		1.8	1	2
5882.5	5883.5	D	24.4	294	.4	286	356	8.9	8.6	-2.7			.8	1	3
5883.0	5884.0	D	21.8	322	.3	282	353	9.0	8.6	-2.5			-.6	1	3
5883.5	5884.5	D	19.8	234	.3	277	351	9.0	8.6	-.6	1.4	2.8		1	0
5884.5	5885.5	C	36.0	265	.3	255	344	9.1	8.6	-3.8			2.5	1	3
5885.0	5886.0	C	13.3	30	.3	254	340	9.1	8.6		-1.4		-1.5	1	2
5885.5	5886.5	C	22.8	56	.3	254	336	9.1	8.6	1.4	-.7			1	4
5886.0	5887.0	D	39.6	255	.3	254	335	9.1	8.6	-4.2	-1.2			1	4
5886.5	5887.5	D	16.6	299	.3	254	336	9.0	8.6	-1.9	-2.2			1	4
5887.0	5888.0	D	9.8	343	.3	254	337	9.0	8.6	-.7	-1.6			1	4
5887.5	5888.5	C	28.0	69	.2	254	337	9.0	8.7		.1		-2.2	1	2
5888.0	5889.0	D	34.2	69	.2	254	336	9.0	8.7		.3		-2.8	1	2
5889.0	5890.0	D	20.3	291	.2	254	334	9.0	8.7	-2.4	-2.5			1	4
5889.5	5890.5	B	25.4	282	.2	254	330	9.0	8.8	-3.0	-2.8			1	4
5890.0	5891.0	B	21.6	300	.2	254	328	9.0	8.8	-2.4	-3.2			1	4
5890.5	5891.5	D	5.0	184	.1	254	324	9.0	8.7	.0			.6	1	3
5891.0	5892.0	C	22.1	197	.2	254	323	9.0	8.7	-.4			2.5	1	3
5891.5	5892.5	D	20.6	149	.2	254	322	9.1	8.7		3.4		1.9	1	2
5892.0	5893.0	B	23.1	181	.2	254	323	9.1	8.7		3.1		2.7	1	2
5892.5	5893.5	B	35.8	218	.2	254	325	9.1	8.7	-2.0	2.0			1	4
5893.0	5894.0	B	13.3	137	.2	254	327	9.1	8.7	1.2	2.1			1	4
5893.5	5894.5	A	7.4	84	.2	254	331	9.1	8.8	.3	.5	-1.0		1	0
5894.0	5895.0	A	9.2	113	.2	254	332	9.1	8.8	.4	1.1	-.9		1	0
5894.5	5895.5	A	10.9	175	.3	254	335	9.2	8.9	.7	1.7	.6		1	0
5895.0	5896.0	A	6.7	168	.3	253	336	9.2	9.0	.4	1.0	.3		1	0
5895.5	5896.5	A	1.9	98	.3	251	337	9.3	9.1	.2	.2	-.2		1	0
5896.0	5897.0	A	9.8	104	.3	251	337	9.3	9.1	1.1	1.0	-1.2		1	0
5896.5	5897.5	A	2.6	193	.3	5	336	9.3	9.1	.0	.3	.2		1	0
5897.0	5898.0	B	.9	236	.3	54	335	9.4	9.0		.0		.1	1	2
5897.5	5898.5	B	2.2	133	.3	54	335	9.4	9.0	.5	.3	-.2		1	0
5898.0	5899.0	A	6.0	94	.3	54	334	9.4	9.0	.8	.5	-.9		1	0
5898.5	5899.5	B	4.2	353	.3	54	334	9.4	9.0	.2	-.7	-.3		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5899.0	5900.0	A	2.8	140	.2	54	333	9.4	9.0	.2	.4	-.1		1	0
5899.5	5900.5	A	6.7	162	.2	54	333	9.4	9.0	.3	1.1	.1		1	0
5900.0	5901.0	C	25.4	28	.2	54	332	9.4	8.9	.6	-2.5			1	4
5900.5	5901.5	C	21.9	236	.2	54	331	9.4	8.9	-.8	.4	3.6		1	0
5901.0	5902.0	D	18.2	66	.2	54	330	9.4	8.9		.3		-1.3	1	2
5901.5	5902.5	B	4.5	217	.2	54	330	9.4	9.0	.3	.3	.6		1	0
5902.0	5903.0	A	4.1	174	.2	54	329	9.4	9.0	.5	.6	.2		1	0
5902.5	5903.5	D	20.0	159	.2	54	328	9.4	9.0	.5	3.4	.6		1	0
5903.0	5904.0	B	3.1	179	.2	54	327	9.4	9.0	-.8	.4	.2		1	0
5903.5	5904.5	A	2.7	187	.2	54	327	9.4	9.0	-.3	.3	.2		1	0
5904.0	5905.0	B	13.9	204	.1	54	326	9.4	9.0	.5	1.2	1.9		1	0
5904.5	5905.5	A	12.6	225	.1	54	325	9.4	9.0	-.5	.4	2.0		1	0
5905.0	5906.0	B	22.6	202	.1	54	323	9.4	9.0	-.5	2.0	3.2		1	0
5905.5	5906.5	B	16.7	205	.2	54	323	9.4	9.0	-.3	1.3	2.4		1	0
5906.0	5907.0	B	15.7	182	.2	54	321	9.3	8.9	.4	2.0	1.6		1	0
5906.5	5907.5	D	16.6	189	.2	54	321	9.2	8.9	.2	1.8	2.0		1	0
5907.0	5908.0	D	15.4	183	.2	54	321	9.2	8.8	.4	1.9	1.6		1	0
5907.5	5908.5	C	20.5	186	.2	54	321	9.1	8.8	.0			2.4	1	3
5908.0	5909.0	A	7.0	223	.2	54	323	9.1	8.8	-.2	.2	1.0		1	0
5908.5	5909.5	A	5.1	167	.2	54	324	9.1	8.8	.4	.7	.3		1	0
5909.0	5910.0	A	2.1	309	.2	54	324	9.1	8.8	-.7	-.3	.1		1	0
5909.5	5910.5	D	33.6	268	.2	54	324	9.1	8.8		-3.4		.7	1	2
5910.0	5911.0	A	10.5	196	.2	54	322	9.1	8.8	-.1	1.0	1.3		1	0
5910.5	5911.5	B	20.8	183	.1	54	321	9.1	8.8	.0	2.6	2.2		1	0
5911.0	5912.0	C	33.9	57	.1	54	317	9.1	8.8		1.1		-2.4	1	2
5911.5	5912.5	C	9.8	164	.1	54	314	9.0	8.8		1.4		1.1	1	2
5912.0	5913.0	B	22.1	170	.0	54	309	9.0	8.7	-.4	2.8	2.3		1	0
5912.5	5913.5	A	22.9	159	.0	54	306	9.0	8.7	.1	3.2	2.0		1	0
5913.0	5914.0	A	18.9	148	.1	54	301	9.0	8.7	.1	2.7	1.4		1	0
5913.5	5914.5	A	14.7	196	.1	54	299	9.0	8.7	-.9	.5	2.2		1	0
5914.0	5915.0	B	18.3	211	.1	54	299	9.0	8.7	-1.4	-.1	2.9		1	0
5914.5	5915.5	C	36.3	217	.1	54	300	9.0	8.7		-.8		2.8	1	2
5915.0	5916.0	C	18.6	116	.1	54	302	9.0	8.7	1.7	3.0			1	4
5915.5	5916.5	A	20.8	182	.0	54	304	9.0	8.7	.1	1.8	2.8		1	0
5916.0	5917.0	A	10.8	200	.0	54	307	9.0	8.7	-.4	.5	1.6		1	0
5916.5	5917.5	D	21.2	175	.0	54	309	9.0	8.7	.0			2.4	1	3
5917.0	5918.0	B	13.8	183	.0	54	312	9.0	8.8	-.1			1.5	1	3
5917.5	5918.5	B	19.7	195	.1	54	314	9.0	8.8	-1.2	1.5	2.8		1	0
5918.0	5919.0	C	30.4	120	.1	54	316	9.0	8.9	3.3			1.8	1	3
5918.5	5919.5	A	8.1	270	.1	54	316	9.0	8.9	.0	-.9	.9		1	0
5919.0	5920.0	B	13.5	187	.1	54	318	9.1	9.0	.5	1.4	1.6		1	0
5919.5	5920.5	D	23.4	210	.1	54	318	9.1	9.0		1.2		2.4	1	2
5920.0	5921.0	B	8.7	164	.1	54	319	9.1	9.0	1.0	1.3	.6		1	0
5920.5	5921.5	A	9.9	160	.1	54	320	9.1	9.0	1.4	1.5	.5		1	0
5921.0	5922.0	C	7.3	149	.1	54	321	9.1	9.0	1.1	1.2	.2		1	0
5921.5	5922.5	D	7.9	159	.1	54	321	9.1	9.1	1.0	1.2	.4		1	0
5922.0	5923.0	D	34.0	99	.1	54	321	9.2	9.1	4.4			.3	1	3
5922.5	5923.5	D	21.0	77	.1	54	321	9.2	9.2	2.4			-.8	1	3
5923.0	5924.0	C	2.8	274	.1	54	321	9.1	9.1	-.1	-.3	.3		1	0
5923.5	5924.5	A	1.8	197	.1	54	320	9.1	9.1	-.3	.2	.2		1	0
5924.0	5925.0	A	3.3	73	.1	54	318	9.1	9.0	.3	.2	-.5		1	0
5924.5	5925.5	B	18.4	1	.1	54	315	9.1	8.9	.0	-2.1			1	4
5925.0	5926.0	B	24.0	104	.1	54	309	9.1	8.8		3.7		1.0	1	2
5925.5	5926.5	A	12.0	111	.1	54	305	9.1	8.8	.7	1.9	-.5		1	0
5926.0	5927.0	A	2.5	172	.1	54	300	9.2	8.8	-.2	.2	.3		1	0

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CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5926.5	5927.5	A	4.6	27	.1	54	298	9.2	8.8	-.5	.0	-.7		1	0
5927.0	5928.0	B	10.4	215	.2	54	293	9.2	8.8	-.9	-.3			1	4
5927.5	5928.5	A	24.2	193	.2	54	291	9.2	8.9	-1.5	.6	3.9		1	0
5928.0	5929.0	A	20.3	192	.3	54	286	9.1	8.9	-.9	.3	3.2		1	0
5928.5	5929.5	C	1.9	186	.3	54	283	9.1	8.9		.1		.2	1	2
5929.0	5930.0	A	10.0	101	.3	50	278	9.1	8.9	.0	1.6	.1		1	0
5929.5	5930.5	B	7.2	188	.3	49	276	9.1	8.9	-.6			.5	1	3
5930.0	5931.0	A	2.2	114	.3	46	271	9.2	8.9	-.2	.4	.1		1	0
5930.5	5931.5	A	2.7	67	.3	46	269	9.2	8.9	.7	.5	-.2		1	0
5931.0	5932.0	B	14.2	30	.4	44	264	9.3	9.0	1.3	1.4	-1.9		1	0
5931.5	5932.5	A	14.7	23	.4	43	263	9.3	9.0	1.4	1.3	-2.1		1	0
5932.0	5933.0	C	26.3	73	.4	41	260	9.3	9.1	2.5	4.6	-.6		1	0
5932.5	5933.5	D	2.7	48	.4	39	260	9.3	9.1		.4		.1	1	2
5933.0	5934.0	D	27.8	134	.5	37	259	9.3	9.3	-.5			3.4	1	3
5933.5	5934.5	D	18.5	73	.5	35	259	9.3	9.3	1.8			1.4	1	3
5934.0	5935.0	D	12.9	199	.5	35	260	9.3	9.4	-1.4			.4	1	3
5935.0	5936.0	C	22.5	348	.4	35	260	9.3	9.4		.0		-2.0	1	2
5935.5	5936.5	D	18.7	35	.4	35	259	9.3	9.3		2.3		.0	1	2
5936.0	5937.0	B	21.9	30	.4	37	259	9.3	9.2		2.6		-.1	1	2
5936.5	5937.5	C	9.0	348	.4	38	258	9.3	9.1		.1		-.7	1	2
5937.0	5938.0	D	18.7	358	.5	38	257	9.3	9.1	1.9			-1.2	1	3
5937.5	5938.5	D	20.0	33	.5	38	257	9.3	9.1	2.4	2.5			1	4
5939.0	5940.0	D	19.6	280	.4	41	254	9.3	9.1	-.8	-2.9	-1.4		1	0
5939.5	5940.5	C	18.0	275	.4	43	253	9.3	9.1	-1.4	-2.8	-1.1		1	0
5940.0	5941.0	C	13.5	239	.5	43	252	9.4	9.1	-1.3	-2.1			1	4
5940.5	5941.5	C	13.8	241	.5	39	251	9.4	9.1		-2.2		-.9	1	2
5941.0	5942.0	D	23.1	299	.5	38	250	9.4	9.1	.4	-2.5	-3.0		1	0
5941.5	5942.5	C	12.3	193	.5	35	248	9.4	9.1	-1.3			.2	1	3
5942.0	5943.0	B	33.8	114	.5	33	247	9.4	9.0	.0	4.4			1	4
5942.5	5943.5	C	21.1	172	.5	32	245	9.4	9.0	-2.1			1.1	1	3
5943.0	5944.0	D	15.3	149	.6	32	244	9.4	9.0	-1.1			1.4	1	3
5943.5	5944.5	B	11.8	259	.6	34	243	9.3	9.0		-1.8		-1.2	1	2
5944.0	5945.0	B	23.1	218	.6	35	242	9.2	9.0	-2.5	-3.5			1	4
5945.0	5946.0	C	26.0	264	.6	36	241	9.1	9.0	-1.1			-2.9	1	3
5946.0	5947.0	D	12.7	202	.6	37	241	9.1	8.9	-1.4			-.1	1	3
5946.5	5947.5	D	33.4	152	.6	37	241	9.0	8.8		-.1		2.8	1	2
5947.0	5948.0	D	39.7	145	.6	37	241	9.0	8.8	-3.2	.8			1	4
5947.5	5948.5	D	26.9	335	.6	36	240	9.0	8.8	2.5	.5			1	4
5948.0	5949.0	B	19.1	58	.6	35	240	9.0	8.7	1.7			1.6	1	3
5948.5	5949.5	B	20.9	21	.6	33	239	9.0	8.7	2.5			.3	1	3
5949.0	5950.0	A	16.8	315	.6	32	239	9.0	8.7	.6	-.6	-2.6		1	0
5950.0	5951.0	B	18.4	42	.7	30	239	9.0	8.7	1.8	2.9	-.9		1	0
5950.5	5951.5	C	11.9	220	.7	32	240	9.0	8.7	-1.1	-1.7			1	4
5951.0	5952.0	D	27.5	299	.7	34	241	8.9	8.7	.7			-3.1	1	3
5951.5	5952.5	D	20.8	176	.6	36	244	8.9	8.7		-1.2		.9	1	2
5952.0	5953.0	C	15.0	288	.6	37	244	8.9	8.7		-1.6		-1.6	1	2
5952.5	5953.5	D	4.4	344	.6	39	243	9.0	8.7	.5			-.2	1	3
5953.0	5954.0	D	8.5	324	.6	37	241	9.0	8.7	.6			-.7	1	3
5953.5	5954.5	B	20.0	15	.6	34	237	9.0	8.7	2.4			.2	1	3
5954.0	5955.0	B	20.3	32	.7	31	234	9.0	8.7	2.7	3.2	-1.2		1	0
5955.0	5956.0	D	23.9	180	.7	26	229	9.0	8.7	-2.7			.2	1	3
5955.5	5956.5	D	28.6	359	.7	26	227	9.0	8.8		3.4		-.1	1	2
5956.0	5957.0	C	28.1	359	.8	26	226	9.0	8.8		3.4		-.1	1	2
5956.5	5957.5	D	21.9	267	.8	26	225	9.0	8.8		-2.6		-2.5	1	2
5957.5	5958.5	C	17.1	12	.7	28	225	9.0	8.8		2.5		.5	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5958.0	5959.0	C	18.6	345	.7	29	225	9.0	8.8		1.6		-.5	1	2
5958.5	5959.5	D	22.0	307	.7	30	225	9.0	8.7		-.5		-2.0	1	2
5959.0	5960.0	C	27.2	315	.7	29	226	9.0	8.7	2.3	.1			1	4
5959.5	5960.5	B	24.5	339	.7	26	225	9.0	8.8	2.7			-1.0	1	3
5960.0	5961.0	D	22.2	331	.8	26	225	9.0	8.8	2.3			-1.2	1	3
5961.0	5962.0	D	16.6	298	.7	27	225	9.0	8.8	.9			-1.6	1	3
5961.5	5962.5	D	17.1	338	.7	27	224	9.0	8.8	2.5	1.2	-2.5		1	0
5962.0	5963.0	B	28.6	334	.8	27	223	9.0	8.8		1.8		-1.4	1	2
5962.5	5963.5	D	24.7	333	.8	26	219	9.1	8.8		1.9		-.9	1	2
5963.0	5964.0	C	22.0	2	.8	24	214	9.3	8.8		3.3		.7	1	2
5963.5	5964.5	C	10.7	332	.9	24	212	9.3	8.8	.6	1.0	-1.5		1	0
5964.0	5965.0	C	16.7	85	.9	24	210	9.4	8.9		1.8		2.0	1	2
5964.5	5965.5	D	27.2	132	.9	23	210	9.4	8.9	-2.6	-.8			1	4
5965.0	5966.0	C	18.3	41	.9	22	210	9.4	8.9	1.3			1.9	1	3
5966.0	5967.0	C	20.7	299	.9	19	209	9.3	8.9	1.8	.2			1	4
5966.5	5967.5	D	5.8	266	.9	20	208	9.3	8.9		-.4		-.6	1	2
5967.0	5968.0	B	8.0	35	.9	19	207	9.3	8.9		1.4		.8	1	2
5967.5	5968.5	C	17.6	340	.8	18	205	9.4	8.9	2.1	2.3	-2.0		1	0
5968.0	5969.0	C	15.2	338	.8	17	203	9.4	8.9	2.0	1.9	-1.7		1	0
5968.5	5969.5	B	6.9	286	.8	15	199	9.4	8.9	.6			-.5	1	3
5969.0	5970.0	B	7.4	351	.8	15	198	9.3	8.9	.3	1.2	-.5		1	0
5969.5	5970.5	C	24.7	275	.8	16	196	9.2	9.0	1.7	-.6			1	4
5970.0	5971.0	B	36.1	45	.8	17	195	9.1	9.0	1.3			4.6	1	3
5970.5	5971.5	B	22.5	45	.9	19	194	9.0	9.2	.7			2.7	1	3
5971.0	5972.0	C	16.3	43	.9	19	194	9.1	9.2	.6			1.9	1	3
5971.5	5972.5	D	14.0	34	.9	19	193	9.1	9.3	.4	2.3	.9		1	0
5972.0	5973.0	A	13.2	33	1.0	19	192	9.1	9.3	.7	2.2	.8		1	0
5972.5	5973.5	C	10.1	33	1.0	18	191	9.1	9.2	.5			1.2	1	3
5973.0	5974.0	A	15.3	51	1.0	18	190	9.2	9.2	.8	2.1	1.7		1	0
5973.5	5974.5	D	31.8	182	1.0	18	190	9.2	9.2		-5.5		-2.4	1	2
5974.0	5975.0	D	20.9	18	1.0	18	189	9.3	9.2	1.6			2.1	1	3
5975.0	5976.0	C	13.2	5	1.0	19	188	9.4	9.2	1.6	2.4	-.1		1	0
5975.5	5976.5	A	10.3	9	1.0	19	188	9.4	9.2	.5	1.9	.1		1	0
5976.0	5977.0	A	9.9	9	1.0	19	188	9.4	9.1	.4	1.8	.1		1	0
5977.0	5978.0	B	30.7	350	1.0	18	187	9.5	9.1	3.8	5.6	-1.6		1	0
5977.5	5978.5	C	13.9	147	1.1	18	187	9.5	9.1	-1.6	-1.7			1	4
5978.0	5979.0	C	7.7	63	1.1	17	186	9.5	9.1	-.1			1.0	1	3
5978.5	5979.5	C	15.0	3	1.1	15	186	9.5	9.1	.9	2.7	-.1		1	0
5979.0	5980.0	A	8.7	2	1.1	15	185	9.5	9.1	.7	1.6	.0		1	0
5979.5	5980.5	B	33.2	21	1.1	14	183	9.5	9.1	2.1			4.1	1	3
5980.0	5981.0	A	10.8	9	1.1	14	182	9.5	9.1	.9	2.0	.3		1	0
5980.5	5981.5	C	3.4	21	1.1	12	179	9.5	9.1	.1	.7	.2		1	0
5981.0	5982.0	A	2.0	103	1.1	11	177	9.5	9.1	-.1	.1	.3		1	0
5981.5	5982.5	A	.1	114	1.2	9	174	9.5	9.1	-.1	.2	.1		1	0
5982.0	5983.0	A	1.8	195	1.2	7	171	9.5	9.1	.2	-.1	-.1		1	0
5982.5	5983.5	A	2.7	123	1.2	7	170	9.4	9.1	-.3	-.1	.4		1	0
5983.0	5984.0	C	7.8	160	1.2	6	169	9.4	9.1		-1.1		-.4	1	2
5983.5	5984.5	D	11.7	244	1.2	7	168	9.4	9.1		-.3		-1.0	1	2
5984.0	5985.0	B	8.5	169	1.2	7	167	9.4	9.1	.0	-1.2	.0		1	0
5985.0	5986.0	A	3.6	284	1.2	7	166	9.4	9.1	.1	.5	-.4		1	0
5985.5	5986.5	A	3.8	274	1.2	7	166	9.4	9.1	.5	.4	-.5		1	0
5986.0	5987.0	B	3.0	276	1.2	7	166	9.5	9.1	.3	.4	-.4		1	0
5986.5	5987.5	A	1.4	298	1.2	7	165	9.5	9.1	.1	.3	-.1		1	0
5987.0	5988.0	A	2.2	273	1.2	6	165	9.5	9.2	.3	.3	-.3		1	0
5987.5	5988.5	A	2.3	261	1.2	7	164	9.5	9.2	.3	.2	-.3		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	DIA NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5988.0	5989.0	A	1.6	282	1.2	7	164	9.5	9.2	.2	.3	-.2		1	0
5988.5	5989.5	A	1.7	269	1.2	7	164	9.5	9.2	.2	.3	-.2		1	0
5989.0	5990.0	A	3.8	222	1.3	7	163	9.5	9.2	-.1	-.1	-.4		1	0
5989.5	5990.5	D	31.8	192	1.3	6	163	9.5	9.2	-1.1			-3.8	1	3
5990.0	5991.0	A	3.6	234	1.3	6	163	9.5	9.2	-.1	.0	-.5		1	0
5990.5	5991.5	A	5.6	253	1.3	6	163	9.5	9.2	.2	.2	-.8		1	0
5991.0	5992.0	B	3.8	262	1.3	6	162	9.5	9.2	1.0	.3	-.5		1	0
5991.5	5992.5	B	5.7	258	1.3	6	162	9.5	9.2	.9	.3	-.8		1	0
5992.0	5993.0	A	.9	194	1.3	6	162	9.5	9.2	.8	.1	.0		1	0
5992.5	5993.5	A	2.0	212	1.3	6	162	9.5	9.2	.1	.0	-.2		1	0
5993.0	5994.0	A	2.7	205	1.3	7	161	9.5	9.2	.0	-.1	-.2		1	0
5993.5	5994.5	A	7.3	180	1.3	6	161	9.5	9.2	-.1	-1.0	-.3		1	0
5994.0	5995.0	D	9.3	220	1.3	6	161	9.5	9.2		-.6		-.9	1	2
5994.5	5995.5	D	10.3	195	1.3	5	161	9.5	9.2	-.2	-1.2	-.9		1	0
5995.0	5996.0	D	19.5	172	1.3	5	161	9.5	9.2	-.6	-3.1	-.5		1	0
5995.5	5996.5	D	15.0	183	1.3	5	161	9.5	9.2	-.7			-1.5	1	3
5996.5	5997.5	C	2.6	168	1.3	5	160	9.4	9.2	-.1	-.2	.0		1	0
5997.0	5998.0	C	5.8	179	1.3	5	160	9.4	9.2	-.3	-.7	-.2		1	0
5997.5	5998.5	B	6.0	191	1.3	4	160	9.4	9.1	-.1	-.7	-.4		1	0
5998.0	5999.0	B	6.0	221	1.3	4	160	9.4	9.1	-.1	-.3	-.8		1	0
5998.5	5999.5	B	5.5	226	1.3	4	160	9.4	9.1	-.1	-.2	-.7		1	0
5999.0	6000.0	A	.3	296	1.2	3	159	9.4	9.1	-.1	.2	.0		1	0
5999.5	6000.5	B	1.9	43	1.2	3	159	9.4	9.1	-.1	.3	.3		1	0
6000.0	6001.0	A	13.8	234	1.2	4	159	9.3	9.1	-.1	-.4	-2.1		1	0
6000.5	6001.5	C	11.4	275	1.2	4	159	9.3	9.1	1.3	1.0			1	4
6001.0	6002.0	A	5.7	265	1.3	3	159	9.3	9.0	1.0	.4	-.8		1	0
6001.5	6002.5	C	12.3	24	1.3	3	159	9.3	9.0		1.6		1.6	1	2
6002.0	6003.0	B	14.4	302	1.3	2	159	9.3	9.0	1.7			.4	1	3
6002.5	6003.5	B	2.6	251	1.3	2	159	9.3	9.0	.9	.2	-.3		1	0
6003.0	6004.0	A	2.0	171	1.2	3	158	9.3	9.0	.0	-.1	.0		1	0
6003.5	6004.5	A	2.2	177	1.2	3	158	9.3	9.0	.0	-.1	.0		1	0
6004.0	6005.0	B	11.2	150	1.2	2	158	9.3	9.0	-.2	-1.6	.3		1	0
6004.5	6005.5	A	1.7	123	1.2	2	158	9.3	9.0	-.3	.0	.2		1	0
6005.0	6006.0	A	.9	106	1.3	2	158	9.3	9.0	-.2	.1	.2		1	0
6005.5	6006.5	B	7.3	252	1.3	1	158	9.3	9.0	.7	.3			1	4
6006.0	6007.0	A	6.8	226	1.3	1	158	9.3	9.0	-.1	-.2	-.9		1	0
6006.5	6007.5	A	4.8	212	1.3	2	157	9.3	9.0	-.1	-.3	-.5		1	0
6007.0	6008.0	A	6.2	193	1.2	2	157	9.3	9.0	.1	-.6	-.5		1	0
6007.5	6008.5	A	6.8	194	1.2	2	157	9.3	9.0	.4	-.7	-.6		1	0
6008.0	6009.0	D	14.5	225	1.3	2	157	9.3	9.0	.0	-.7	-2.1		1	0
6008.5	6009.5	D	15.6	284	1.3	1	156	9.3	9.0		1.8		-.1	1	2
6010.5	6011.5	D	39.6	85	1.3	2	156	9.3	9.0		-2.3		2.4	1	2
6011.0	6012.0	D	25.7	108	1.2	2	156	9.2	9.0	-3.0			.2	1	3
6011.5	6012.5	A	22.7	163	1.2	2	156	9.2	9.0	-1.6	-3.6	-.4		1	0
6012.0	6013.0	B	28.8	160	1.2	2	156	9.2	9.0	-2.3			-2.6	1	3
6012.5	6013.5	B	18.1	243	1.2	3	156	9.2	9.0		.0		-1.4	1	2
6013.0	6014.0	A	12.9	156	1.2	3	156	9.3	9.0	-1.4	-1.9	.1		1	0
6013.5	6014.5	A	12.8	155	1.3	3	156	9.3	9.0	-1.4	-1.9	.1		1	0
6014.0	6015.0	A	22.4	168	1.3	3	156	9.3	9.0	-.9	-3.5	-.7		1	0
6014.5	6015.5	B	16.4	185	1.2	3	156	9.3	9.0	-.5			-1.7	1	3
6015.0	6016.0	B	13.4	302	1.2	3	156	9.4	9.0	.8	2.0	-1.1		1	0
6015.5	6016.5	B	12.0	198	1.2	3	156	9.4	9.0	-.2	-1.3	-1.2		1	0
6016.0	6017.0	A	5.5	157	1.3	3	155	9.4	9.0	-1.0	-.7	.1		1	0
6016.5	6017.5	A	5.3	158	1.3	3	155	9.4	9.0	-1.0	-.7	.0		1	0
6017.0	6018.0	D	16.9	142	1.3	2	155	9.4	9.0	-1.7			-.9	1	3

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	DIA NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6017.5	6018.5	D	7.3	205	1.3	3	155	9.4	9.1	-.1	-.6	-.8		1	0
6018.0	6019.0	D	26.0	334	1.3	3	155	9.4	9.1	2.4			2.4	1	3
6018.5	6019.5	D	20.5	240	1.3	3	154	9.4	9.1	2.4	-.1	-3.3		1	0
6019.0	6020.0	D	17.3	173	1.2	4	154	9.4	9.1	-.1	-2.6	-.8		1	0
6019.5	6020.5	D	20.5	155	1.2	4	154	9.4	9.1		-3.3		-1.6	1	2
6020.5	6021.5	D	23.7	241	1.2	4	154	9.4	9.1		.0		-1.9	1	2
6021.0	6022.0	D	31.9	57	1.2	4	154	9.4	9.1	-2.5	.8			1	4
6021.5	6022.5	D	24.4	118	1.2	3	154	9.4	9.1	-3.3	-3.3	2.5		1	0
6022.0	6023.0	D	10.0	97	1.2	3	153	9.3	9.1	-1.1	-.7			1	4
6022.5	6023.5	D	19.4	104	1.3	3	153	9.3	9.1	-2.6	-2.0	2.5		1	0
6023.0	6024.0	D	20.8	304	1.3	3	153	9.3	9.1	2.4			.9	1	3
6023.5	6024.5	D	14.0	309	1.3	2	152	9.3	9.1	2.4	2.3	-.8		1	0
6024.0	6025.0	D	14.3	184	1.3	2	152	9.3	9.1	-.6	-1.8	-1.1		1	0
6024.5	6025.5	D	21.0	207	1.3	2	151	9.3	9.2		-1.8		-2.3	1	2
6025.0	6026.0	D	9.8	134	1.3	2	151	9.3	9.1	-1.0			-.4	1	3
6025.5	6026.5	D	1.0	145	1.3	2	150	9.4	9.1	.3	.0	.1		1	0
6026.0	6027.0	D	8.7	330	1.3	2	149	9.4	9.1	1.4	1.6	.1		1	0
6026.5	6027.5	D	23.1	47	1.3	2	149	9.4	9.1		1.0		2.5	1	2
6027.0	6028.0	D	22.5	124	1.4	2	148	9.4	9.1		-3.3		-.8	1	2
6027.5	6028.5	D	17.1	167	1.4	2	147	9.4	9.1	-.7	-2.5	-.8		1	0
6028.0	6029.0	D	18.1	173	1.4	1	147	9.4	9.1	-.7	-2.5			1	4
6028.5	6029.5	D	22.5	3	1.4	1	145	9.4	9.1	-.2	3.3	2.5		1	0
6029.0	6030.0	D	30.4	317	1.4	1	145	9.4	9.0	3.2			2.5	1	3
6029.5	6030.5	A	5.0	320	1.4	1	144	9.3	9.0	.5	1.0	.1		1	0
6030.0	6031.0	C	2.3	154	1.4	0	144	9.3	9.0	-.1	-.2	.1		1	0
6030.5	6031.5	A	3.0	250	1.4	360	143	9.3	8.9	.3	.3	.3		1	0
6031.0	6032.0	A	3.9	259	1.4	359	142	9.3	8.9	.6	.5	-.4		1	0
6031.5	6032.5	A	3.6	241	1.3	358	141	9.2	8.9	.7	.3	-.4		1	0
6032.0	6033.0	A	2.5	224	1.3	358	141	9.2	8.9	.4	.1	-.3		1	0
6032.5	6033.5	A	2.9	198	1.3	357	140	9.2	8.9	.2	-.1	-.3		1	0
6033.0	6034.0	A	5.0	202	1.3	358	140	9.2	8.9	.1	-.2	-.6		1	0
6033.5	6034.5	A	6.8	234	1.3	359	139	9.2	8.9	.5	.3	-.9		1	0
6034.0	6035.0	C	7.8	42	1.3	359	139	9.2	8.9		.3		.8	1	2
6034.5	6035.5	D	13.6	253	1.4	359	138	9.2	8.9	1.5	1.1			1	4
6035.0	6036.0	D	10.3	282	1.4	359	138	9.2	8.9	1.2	1.5			1	4
6035.5	6036.5	B	9.4	153	1.3	358	137	9.2	8.9	-.5	-1.3	-.2		1	0
6036.0	6037.0	B	4.5	153	1.3	358	137	9.3	8.9	-.4	-.5	-.1		1	0
6036.5	6037.5	A	1.2	256	1.3	358	137	9.2	8.9	.3	.3	.0		1	0
6037.0	6038.0	A	11.7	241	1.3	358	137	9.2	8.9	1.1	.6	-1.7		1	0
6037.5	6038.5	A	4.1	253	1.3	358	137	9.3	8.9	.6	.4	-.4		1	0
6038.0	6039.0	A	2.0	205	1.3	358	137	9.3	8.9	.2	.0	-.2		1	0
6038.5	6039.5	A	1.9	194	1.3	358	137	9.3	8.9	.0	.0	-.1		1	0
6039.0	6040.0	D	.7	255	1.3	358	137	9.3	8.9	-.1	.2	.0		1	0
6039.5	6040.5	A	3.4	207	1.3	358	137	9.3	8.9	.2	.0	-.4		1	0
6040.0	6041.0	A	4.9	239	1.3	358	138	9.3	8.9	.5	.3	-.6		1	0
6040.5	6041.5	A	6.0	258	1.3	358	138	9.3	8.9	1.3	.6	-.7		1	0
6041.0	6042.0	A	3.4	246	1.3	358	138	9.3	8.9	.8	.3	-.4		1	0
6041.5	6042.5	A	4.5	247	1.3	359	138	9.3	8.9	.8	.4	-.5		1	0
6042.0	6043.0	A	7.4	245	1.3	359	139	9.3	8.9	.7	.5	-1.0		1	0
6042.5	6043.5	A	4.6	267	1.3	360	139	9.3	8.9	1.0	.6	-.4		1	0
6043.0	6044.0	A	3.6	248	1.3	0	139	9.3	8.9	.5	.4	-.4		1	0
6043.5	6044.5	A	5.0	280	1.3	1	139	9.3	8.9	.4	.8	-.4		1	0
6044.0	6045.0	A	4.7	280	1.2	1	139	9.3	8.9	.3	.7	-.3		1	0
6044.5	6045.5	A	1.6	162	1.2	2	139	9.3	9.0	.0	-.1	.0		1	0
6045.0	6046.0	A	2.8	75	1.2	3	139	9.3	9.0	-.1	-.1	.5		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	DIA NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6045.5	6046.5	A	2.7	240	1.2	3	139	9.3	9.0	.5	.2	-.3		1	0
6046.0	6047.0	A	14.1	213	1.2	3	139	9.3	9.0	.4	-.5	-2.0		1	0
6046.5	6047.5	C	24.8	220	1.2	2	140	9.3	9.0	1.7	-.6			1	4
6047.0	6048.0	B	23.8	220	1.2	2	140	9.3	9.0	1.6	-.5			1	4
6047.5	6048.5	C	6.3	211	1.3	2	140	9.3	9.0	.6	-.2	-.8		1	0
6048.0	6049.0	C	5.4	257	1.3	3	140	9.3	9.0	.7	.5	-.6		1	0
6048.5	6049.5	C	1.9	12	1.3	3	140	9.3	9.0	-.2	.4	.4		1	0
6049.0	6050.0	D	22.6	97	1.3	3	140	9.3	9.0	-2.7			.0	1	3
6049.5	6050.5	A	5.6	265	1.3	3	140	9.3	9.0	.6	.7	-.6		1	0
6050.0	6051.0	A	3.6	247	1.3	4	140	9.3	9.0	.3	.3	-.4		1	0
6050.5	6051.5	A	2.4	259	1.3	4	141	9.4	9.0	.2	.3	-.2		1	0
6051.0	6052.0	A	4.6	234	1.3	4	141	9.4	9.0	.3	.2	-.6		1	0
6051.5	6052.5	A	3.6	247	1.3	5	141	9.4	9.0	.5	.3	-.4		1	0
6052.0	6053.0	A	3.4	217	1.3	5	140	9.4	9.0	.2	.0	-.4		1	0
6052.5	6053.5	B	4.4	214	1.3	7	140	9.4	9.0	.2	-.1	-.5		1	0
6053.0	6054.0	C	3.6	210	1.3	7	140	9.4	9.0	.1	-.1	-.4		1	0
6053.5	6054.5	A	3.7	221	1.3	7	140	9.4	9.0	.2	.1	-.4		1	0
6054.0	6055.0	A	6.4	249	1.3	7	140	9.4	9.0	1.0	.5	-.8		1	0
6054.5	6055.5	A	4.0	260	1.3	7	140	9.4	9.0	.9	.5	-.4		1	0
6055.0	6056.0	A	4.3	214	1.3	7	140	9.4	9.0	.3	.0	-.5		1	0
6055.5	6056.5	A	3.4	221	1.3	7	140	9.4	9.0	.3	.1	-.4		1	0
6056.0	6057.0	A	3.6	244	1.4	7	140	9.4	9.0	.3	.3	-.4		1	0
6056.5	6057.5	C	6.0	244	1.4	7	140	9.4	9.0	.9	.4	-.8		1	0
6057.0	6058.0	C	22.4	307	1.4	7	140	9.4	9.0	2.3			1.6	1	3
6057.5	6058.5	D	13.0	350	1.4	7	140	9.4	9.0	.4			1.6	1	3
6058.0	6059.0	D	3.0	264	1.3	8	140	9.4	9.0	.3			.1	1	3
6058.5	6059.5	A	4.6	269	1.3	9	140	9.4	9.0	.6	.6	-.4		1	0
6059.0	6060.0	A	4.1	272	1.3	9	140	9.4	9.0	.6	.6	-.3		1	0
6059.5	6060.5	C	4.8	229	1.3	9	140	9.4	9.0	.5	.1	-.6		1	0
6060.0	6061.0	A	7.4	222	1.3	8	141	9.4	9.0	.7	.0	-1.0		1	0
6060.5	6061.5	A	5.1	225	1.3	8	141	9.4	9.0	.2	.1	-.6		1	0
6061.0	6062.0	A	5.3	229	1.3	8	141	9.4	9.0	.3	.1	-.7		1	0
6061.5	6062.5	A	4.8	233	1.3	8	142	9.4	9.0	.4	.2	-.6		1	0
6062.0	6063.0	A	4.7	234	1.3	9	142	9.4	9.0	.4	.2	-.6		1	0
6062.5	6063.5	A	4.6	237	1.3	10	143	9.4	9.0	.3	.2	-.6		1	0
6063.0	6064.0	A	2.4	222	1.3	10	143	9.4	9.0	.3	.1	-.2		1	0
6063.5	6064.5	A	3.2	237	1.3	9	144	9.4	9.1	.3	.2	-.4		1	0
6064.0	6065.0	A	5.0	247	1.3	9	144	9.4	9.1	.5	.3	-.6		1	0
6064.5	6065.5	A	5.0	267	1.3	8	145	9.4	9.1	.8	.6	-.5		1	0
6065.0	6066.0	A	4.7	243	1.3	8	145	9.4	9.1	.4	.3	-.6		1	0
6065.5	6066.5	A	5.0	247	1.3	8	145	9.4	9.1	.4	.3	-.6		1	0
6066.0	6067.0	A	5.4	240	1.2	8	145	9.4	9.1	.4	.2	-.7		1	0
6066.5	6067.5	C	9.8	225	1.3	10	145	9.4	9.0	.2	-.1	-1.4		1	0
6067.0	6068.0	D	32.1	196	1.3	10	145	9.4	8.9		-3.6		-3.8	1	2
6067.5	6068.5	D	2.9	228	1.3	10	145	9.4	8.9		.1		-.1	1	2
6068.0	6069.0	D	28.9	277	1.3	9	145	9.4	8.9		3.6		.0	1	2
6069.0	6070.0	A	.7	173	1.3	9	145	9.3	8.9	.5	.1	.1		1	0
6069.5	6070.5	A	5.5	238	1.3	9	144	9.3	8.9	.4	.2	-.7		1	0
6070.0	6071.0	B	5.9	226	1.3	10	144	9.3	8.9	.8	.0	-.8		1	0
6070.5	6071.5	C	6.2	221	1.3	10	144	9.2	8.9	1.1	-.1	-.8		1	0
6071.0	6072.0	C	17.1	91	1.3	9	144	9.2	8.9	-1.0	-1.6	2.3		1	0
6071.5	6072.5	A	10.9	51	1.3	9	144	9.2	8.9	-.1	.2	1.9		1	0
6072.0	6073.0	B	14.1	256	1.3	8	144	9.2	8.8		1.0		-.4	1	2
6072.5	6073.5	A	2.0	238	1.3	8	144	9.2	8.8	.3	.2	-.2		1	0
6073.0	6074.0	A	5.1	262	1.3	9	144	9.2	8.8	.9	.5	-.5		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH1X.33X20

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6073.5	6074.5	B	12.2	248	1.3	10	144	9.2	8.8	.9	.6	-1.7		1	0
6074.0	6075.0	D	32.3	326	1.4	11	143	9.3	8.8	2.8			3.2	1	3
6074.5	6075.5	D	20.5	263	1.4	11	143	9.3	8.8	2.7	1.9	-2.7		1	0
6075.0	6076.0	A	5.9	239	1.4	11	143	9.3	8.8	.7	.2	-.8		1	0
6075.5	6076.5	A	6.0	259	1.3	12	143	9.3	8.8	.6	.6	-.7		1	0
6076.0	6077.0	B	8.1	244	1.3	12	143	9.3	8.8		.4		-.3	1	2
6076.5	6077.5	C	3.5	258	1.3	12	143	9.3	8.8	.3	.4	-.3		1	0
6077.0	6078.0	A	3.7	273	1.3	12	143	9.2	8.8	.6	.5	-.3		1	0
6077.5	6078.5	B	15.0	297	1.3	12	143	9.2	8.8	.7	2.4	-.9		1	0
6078.0	6079.0	A	12.3	280	1.3	13	142	9.2	8.9	.6	1.6	-1.1		1	0
6078.5	6079.5	A	11.2	263	1.3	12	142	9.2	8.9	.2	1.1	-1.4		1	0
6079.0	6080.0	A	12.5	228	1.2	11	142	9.2	9.0	.7	.0	-1.8		1	0
6079.5	6080.5	A	9.9	232	1.2	10	141	9.2	9.0	.5	.2	-1.4		1	0
6080.0	6081.0	B	5.0	285	1.2	10	140	9.2	9.0		.8		.2	1	2
6080.5	6081.5	D	7.1	153	1.2	10	140	9.2	8.9	-.5	-1.0			1	4
6081.0	6082.0	D	12.8	156	1.2	11	140	9.3	8.8	-.7			-1.2	1	3
6081.5	6082.5	B	1.7	191	1.2	12	139	9.3	8.8	.6	.0	-.1		1	0
6082.0	6083.0	D	6.2	334	1.2	11	140	9.4	8.8	.4	1.1			1	4
6082.5	6083.5	A	9.0	284	1.3	11	140	9.4	8.8	.3	1.3	-.7		1	0
6083.0	6084.0	A	4.3	213	1.3	10	140	9.4	8.8	.2	-.1	-.5		1	0
6083.5	6084.5	A	8.2	237	1.3	10	140	9.4	8.8	.2	.3	-1.1		1	0
6084.0	6085.0	D	21.0	227	1.3	9	140	9.4	8.9	1.6	.0			1	4
6084.5	6085.5	D	32.6	318	1.3	9	140	9.4	8.9	3.1			3.1	1	3
6085.0	6086.0	D	22.1	150	1.3	9	139	9.4	8.9	-1.5			-2.0	1	3
6085.5	6086.5	D	10.6	284	1.3	9	139	9.4	8.9	.7	1.6	-.8		1	0
6086.0	6087.0	C	6.3	224	1.3	11	139	9.3	8.9	.7	.0	-.8		1	0
6086.5	6087.5	D	29.9	239	1.3	11	139	9.3	8.9	2.9	1.0			1	4
6087.0	6088.0	D	18.5	300	1.3	11	140	9.3	8.9	2.4	3.1	-.8		1	0
6087.5	6088.5	D	20.9	29	1.4	11	140	9.3	8.9	-1.0			2.4	1	3
6088.0	6089.0	D	25.5	273	1.4	11	139	9.3	8.9	3.1	3.2			1	4
6088.5	6089.5	D	36.0	230	1.4	11	139	9.3	8.9	3.2			-3.0	1	3
6089.0	6090.0	D	33.0	317	1.4	12	139	9.3	8.9	3.2			3.1	1	3
6089.5	6090.5	D	18.9	347	1.4	12	139	9.3	8.9	.7			2.3	1	3

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QUINTANA PETROLEUM CORP.
DEADMAN CANYON FEDERAL NO.2-20
WILDCAT
SAN JUAN CO., UTAH
" MAIN "

STATISTICAL SUMMARY OF DIP LOG CALCULATIONS
8.0 CORRELATION INTERVAL 2.0 STEP 30.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
4150 - 4200	6.8 DEG.	.71	312 (N 48 W)	.52	11
4200 - 4250	5.4 DEG.	.55	157 (S 23 E)	.21	25
4250 - 4300	4.1 DEG.	.71	147 (S 33 E)	.18	21
4300 - 4350	5.9 DEG.	.44	311 (N 49 W)	.33	25
4350 - 4400	3.0 DEG.	.71	258 (S 78 W)	.49	24
4400 - 4450	6.4 DEG.	.71	180 (S 0 W)	.63	23
4450 - 4500	5.0 DEG.	.54	145 (S 35 E)	.51	24
4500 - 4550	7.6 DEG.	.42	134 (S 46 E)	.24	24
4550 - 4600	6.7 DEG.	.64	322 (N 38 W)	.58	24
4600 - 4650	1.9 DEG.	.58	206 (S 26 W)	.05	25
4650 - 4700	4.9 DEG.	.76	197 (S 17 W)	.16	25
4700 - 4750	5.2 DEG.	.60	212 (S 32 W)	.59	25
4750 - 4800	4.4 DEG.	.57	223 (S 43 W)	.57	24
4800 - 4850	3.9 DEG.	.81	185 (S 5 W)	.30	25
4850 - 4900	3.8 DEG.	1.04	257 (S 77 W)	.41	23
4900 - 4950	2.7 DEG.	.55	209 (S 29 W)	.30	25
4950 - 5000	4.0 DEG.	.65	248 (S 68 W)	.60	20
5000 - 5050	6.0 DEG.	.99	184 (S 4 W)	.62	21
5050 - 5100	7.4 DEG.	.68	81 (N 81 E)	.48	23
5100 - 5150	2.5 DEG.	.56	274 (N 86 W)	.23	25
5150 - 5200	5.9 DEG.	.96	167 (S 13 E)	.22	25
5200 - 5250	4.6 DEG.	.76	265 (S 85 W)	.24	19
5250 - 5300	4.1 DEG.	.76	184 (S 4 W)	.67	25
5300 - 5350	2.7 DEG.	.66	202 (S 22 W)	.71	25
5350 - 5400	3.6 DEG.	.84	178 (S 2 E)	.88	25
5400 - 5450	4.6 DEG.	.68	225 (S 45 W)	.53	24
5450 - 5500	2.1 DEG.	.69	114 (S 66 E)	.42	25
5500 - 5550	2.7 DEG.	.70	160 (S 20 E)	.47	22
5550 - 5600	2.5 DEG.	1.41	303 (N 57 W)	.30	23
5600 - 5650	2.5 DEG.	.90	67 (N 67 E)	.32	25
5650 - 5700	3.2 DEG.	.61	131 (S 49 E)	.08	25
5700 - 5750	3.7 DEG.	.77	208 (S 28 W)	.26	25
5750 - 5800	2.6 DEG.	.63	93 (S 87 E)	.52	21
5800 - 5850	8.4 DEG.	.36	82 (N 82 E)	.77	23
5850 - 5900	11.2 DEG.	.40	230 (S 50 W)	.44	17
5900 - 5950	10.7 DEG.	.32	119 (S 61 E)	.38	21
5950 - 6000	9.8 DEG.	.82	345 (N 15 W)	.38	18
6000 - 6050	5.2 DEG.	.66	233 (S 53 W)	.76	25
6050 - 6100	7.8 DEG.	.49	243 (S 63 W)	.80	25
6100 - 6150	4.0 DEG.	.36	221 (S 41 W)	.88	25
6150 - 6200	6.9 DEG.	.70	199 (S 19 W)	.91	14

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STATISTICAL SUMMARY OF DIP LOG CALCULATIONS
8.0 CORRELATION INTERVAL 2.0 STEP 30.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
5750 - 5800	3.1 DEG.	.69	88 (N 88 E)	.55	21
5800 - 5850	7.5 DEG.	.45	100 (S 80 E)	.70	21
5850 - 5900	11.7 DEG.	.43	252 (S 72 W)	.34	21
5900 - 5950	9.3 DEG.	.49	161 (S 19 E)	.78	15
5950 - 6000	6.6 DEG.	.63	296 (N 64 W)	.47	16
6000 - 6050	6.2 DEG.	.75	221 (S 41 W)	.60	25
6050 - 6100	7.2 DEG.	.55	216 (S 36 W)	.76	25

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" REPEAT "

STATISTICAL SUMMARY OF DIP LOG CALCULATIONS
8.0 CORRELATION INTERVAL 2.0 STEP 30.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
5500 - 5550	.0 DEG.	.00	0 (N 0 E)	.00	0
5550 - 5600	.0 DEG.	.00	0 (N 0 E)	.00	0
5600 - 5650	.0 DEG.	.00	0 (N 0 E)	.00	0
5650 - 5700	.0 DEG.	.00	0 (N 0 E)	.00	0
5700 - 5750	.0 DEG.	.00	0 (N 0 E)	.00	0
5750 - 5800	3.1 DEG.	.76	94 (S 86 E)	.72	23
5800 - 5850	7.4 DEG.	.52	124 (S 56 E)	.87	24
5850 - 5900	7.7 DEG.	.47	243 (S 63 W)	.65	18
5900 - 5950	11.0 DEG.	.48	187 (S 7 W)	.53	21
5950 - 6000	8.6 DEG.	.91	324 (N 36 W)	.33	20
6000 - 6050	7.3 DEG.	.81	210 (S 30 W)	.76	24
6050 - 6100	5.8 DEG.	.51	218 (S 38 W)	.71	24

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STATISTICAL SUMMARY OF DIP LOG CALCULATIONS
8.0 CORRELATION INTERVAL 2.0 STEP 30.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
5700 - 5750	1.4 DEG.	.82	120 (S 60 E)	.29	11
5750 - 5800	3.0 DEG.	.86	97 (S 83 E)	.58	25
5800 - 5850	7.7 DEG.	.39	106 (S 74 E)	.55	24
5850 - 5900	11.4 DEG.	.52	224 (S 44 W)	.66	17
5900 - 5950	12.2 DEG.	.33	158 (S 22 E)	.73	16
5950 - 6000	4.9 DEG.	.62	247 (S 67 W)	.63	12
6000 - 6050	8.3 DEG.	.58	204 (S 24 W)	.58	25
6050 - 6100	6.3 DEG.	.43	230 (S 50 W)	.78	25

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STATISTICAL SUMMARY OF DIP LOG CALCULATIONS
4.0 CORRELATION INTERVAL 2.0 STEP 15.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
4150 - 4200	10.2 DEG.	.69	324 (N 36 W)	.38	11
4200 - 4250	9.8 DEG.	.83	180 (S 0 W)	.36	23
4250 - 4300	8.5 DEG.	.94	117 (S 63 E)	.27	20
4300 - 4350	7.5 DEG.	.58	285 (N 75 W)	.18	25
4350 - 4400	5.1 DEG.	1.01	248 (S 68 W)	.35	24
4400 - 4450	6.7 DEG.	.64	176 (S 4 E)	.53	23
4450 - 4500	6.0 DEG.	.56	139 (S 41 E)	.41	22
4500 - 4550	8.3 DEG.	.66	118 (S 62 E)	.35	25
4550 - 4600	8.2 DEG.	.81	340 (N 20 W)	.38	25
4600 - 4650	4.0 DEG.	1.76	310 (N 50 W)	.09	25
4650 - 4700	4.1 DEG.	.72	212 (S 32 W)	.10	23
4700 - 4750	6.3 DEG.	.89	200 (S 20 W)	.43	25
4750 - 4800	5.9 DEG.	.90	211 (S 31 W)	.60	25
4800 - 4850	5.2 DEG.	1.19	194 (S 14 W)	.32	24
4850 - 4900	4.2 DEG.	1.00	268 (S 88 W)	.37	23
4900 - 4950	4.2 DEG.	1.01	200 (S 20 W)	.29	24
4950 - 5000	5.9 DEG.	1.10	261 (S 81 W)	.66	22
5000 - 5050	7.8 DEG.	.85	187 (S 7 W)	.35	22
5050 - 5100	10.6 DEG.	.71	62 (N 62 E)	.39	25
5100 - 5150	3.2 DEG.	.74	263 (S 83 W)	.21	25
5150 - 5200	5.9 DEG.	1.16	162 (S 18 E)	.31	25
5200 - 5250	6.8 DEG.	.80	253 (S 73 W)	.32	22
5250 - 5300	4.6 DEG.	.99	166 (S 14 E)	.61	23
5300 - 5350	3.8 DEG.	1.20	210 (S 30 W)	.45	25
5350 - 5400	4.1 DEG.	1.00	185 (S 5 W)	.68	25
5400 - 5450	7.1 DEG.	.86	195 (S 15 W)	.28	21
5450 - 5500	2.8 DEG.	.77	113 (S 67 E)	.22	25
5500 - 5550	5.0 DEG.	1.41	169 (S 11 E)	.30	24
5550 - 5600	4.3 DEG.	1.56	33 (N 33 E)	.28	24
5600 - 5650	4.7 DEG.	1.27	118 (S 62 E)	.23	25
5650 - 5700	4.5 DEG.	1.00	112 (S 68 E)	.25	25
5700 - 5750	4.4 DEG.	.73	228 (S 48 W)	.16	25
5750 - 5800	3.8 DEG.	1.08	95 (S 85 E)	.18	23
5800 - 5850	10.5 DEG.	.57	77 (N 77 E)	.58	24
5850 - 5900	15.4 DEG.	.60	192 (S 12 W)	.19	23
5900 - 5950	13.3 DEG.	.45	138 (S 42 E)	.44	24
5950 - 6000	12.5 DEG.	.80	343 (N 17 W)	.40	22
6000 - 6050	7.6 DEG.	.69	235 (S 55 W)	.65	25
6050 - 6100	7.5 DEG.	.62	239 (S 59 W)	.75	24
6100 - 6150	4.6 DEG.	.44	224 (S 44 W)	.76	25
6150 - 6200	5.7 DEG.	.59	196 (S 16 W)	.75	15

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STATISTICAL SUMMARY OF DIP LOG CALCULATIONS
4.0 CORRELATION INTERVAL 2.0 STEP 15.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
5750 - 5800	4.7 DEG.	1.24	108 (S 72 E)	.36	22
5800 - 5850	11.6 DEG.	.68	100 (S 80 E)	.64	25
5850 - 5900	16.0 DEG.	.49	259 (S 79 W)	.21	21
5900 - 5950	13.5 DEG.	.57	156 (S 24 E)	.47	22
5950 - 6000	10.8 DEG.	.67	341 (N 19 W)	.23	21
6000 - 6050	10.0 DEG.	.77	222 (S 42 W)	.66	25
6050 - 6100	7.9 DEG.	.87	205 (S 25 W)	.70	25

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" REPEAT "

STATISTICAL SUMMARY OF DIP LOG CALCULATIONS
4.0 CORRELATION INTERVAL 2.0 STEP 15.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
5500 - 5550	.0 DEG.	.00	0 (N 0 E)	.00	0
5550 - 5600	.0 DEG.	.00	0 (N 0 E)	.00	0
5600 - 5650	.0 DEG.	.00	0 (N 0 E)	.00	0
5650 - 5700	.0 DEG.	.00	0 (N 0 E)	.00	0
5700 - 5750	.0 DEG.	.00	0 (N 0 E)	.00	0
5750 - 5800	5.3 DEG.	1.31	99 (S 81 E)	.68	22
5800 - 5850	11.3 DEG.	.67	116 (S 64 E)	.64	23
5850 - 5900	13.9 DEG.	.61	277 (N 83 W)	.48	21
5900 - 5950	12.7 DEG.	.59	178 (S 2 E)	.51	24
5950 - 6000	9.7 DEG.	.84	314 (N 46 W)	.33	17
6000 - 6050	8.1 DEG.	.91	221 (S 41 W)	.57	24
6050 - 6100	7.6 DEG.	.93	209 (S 29 W)	.61	25

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STATISTICAL SUMMARY OF DIP LOG CALCULATIONS
4.0 CORRELATION INTERVAL 2.0 STEP 15.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
5700 - 5750	2.1 DEG.	1.00	128 (S 52 E)	.33	11
5750 - 5800	4.5 DEG.	1.12	81 (N 81 E)	.46	25
5800 - 5850	9.4 DEG.	.44	124 (S 56 E)	.34	25
5850 - 5900	13.5 DEG.	.53	230 (S 50 W)	.59	23
5900 - 5950	14.3 DEG.	.42	175 (S 5 E)	.49	21
5950 - 6000	9.5 DEG.	.63	301 (N 59 W)	.30	18
6000 - 6050	10.6 DEG.	.72	217 (S 37 W)	.49	24
6050 - 6100	7.7 DEG.	.72	231 (S 51 W)	.72	25

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STATISTICAL SUMMARY OF DIP LOG CALCULATIONS
1.0 CORRELATION INTERVAL .3 STEP 15.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
4150 - 4200	10.8 DEG.	.75	289 (N 71 W)	.29	44
4200 - 4250	10.3 DEG.	.77	112 (S 68 E)	.08	97
4250 - 4300	13.4 DEG.	.74	139 (S 41 E)	.27	95
4300 - 4350	10.6 DEG.	.76	360 (N 0 W)	.07	100
4350 - 4400	8.0 DEG.	.96	206 (S 26 W)	.26	97
4400 - 4450	10.6 DEG.	.88	171 (S 9 E)	.27	91
4450 - 4500	10.5 DEG.	.77	193 (S 13 W)	.23	94
4500 - 4550	10.8 DEG.	.83	147 (S 33 E)	.12	99
4550 - 4600	12.1 DEG.	.79	327 (N 33 W)	.23	99
4600 - 4650	6.8 DEG.	1.03	112 (S 68 E)	.08	100
4650 - 4700	7.8 DEG.	1.04	228 (S 48 W)	.20	100
4700 - 4750	8.2 DEG.	.92	188 (S 8 W)	.16	97
4750 - 4800	7.6 DEG.	.85	223 (S 43 W)	.43	100
4800 - 4850	8.1 DEG.	1.18	200 (S 20 W)	.39	99
4850 - 4900	8.6 DEG.	1.06	249 (S 69 W)	.23	99
4900 - 4950	6.8 DEG.	1.11	164 (S 16 E)	.18	100
4950 - 5000	7.2 DEG.	1.12	254 (S 74 W)	.30	93
5000 - 5050	10.5 DEG.	.88	160 (S 20 E)	.18	98
5050 - 5100	11.7 DEG.	.83	80 (N 80 E)	.36	100
5100 - 5150	8.0 DEG.	.92	338 (N 22 W)	.07	99
5150 - 5200	6.6 DEG.	1.04	176 (S 4 E)	.38	99
5200 - 5250	10.6 DEG.	.87	249 (S 69 W)	.21	98
5250 - 5300	8.9 DEG.	.99	176 (S 4 E)	.19	99
5300 - 5350	6.2 DEG.	1.11	215 (S 35 W)	.21	100
5350 - 5400	6.4 DEG.	1.19	197 (S 17 W)	.49	100
5400 - 5450	13.3 DEG.	.80	218 (S 38 W)	.17	98
5450 - 5500	6.3 DEG.	.99	166 (S 14 E)	.20	99
5500 - 5550	7.4 DEG.	1.30	176 (S 4 E)	.26	99
5550 - 5600	6.3 DEG.	1.01	165 (S 15 E)	.10	97
5600 - 5650	7.8 DEG.	1.15	100 (S 80 E)	.22	100
5650 - 5700	6.7 DEG.	1.08	115 (S 65 E)	.22	98
5700 - 5750	9.7 DEG.	.98	302 (N 58 W)	.08	100
5750 - 5800	6.1 DEG.	1.19	95 (S 85 E)	.17	99
5800 - 5850	13.7 DEG.	.67	86 (N 86 E)	.31	97
5850 - 5900	18.7 DEG.	.57	179 (S 1 E)	.14	96
5900 - 5950	13.8 DEG.	.49	140 (S 40 E)	.33	98
5950 - 6000	14.2 DEG.	.73	359 (N 1 W)	.31	98
6000 - 6050	8.4 DEG.	.96	214 (S 34 W)	.47	97
6050 - 6100	8.8 DEG.	.83	234 (S 54 W)	.57	99
6100 - 6150	6.6 DEG.	1.12	218 (S 38 W)	.65	100
6150 - 6200	6.3 DEG.	1.15	191 (S 11 W)	.58	59

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STATISTICAL SUMMARY OF DIP LOG CALCULATIONS
1.0 CORRELATION INTERVAL .3 STEP 15.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
5750 - 5800	7.1 DEG.	1.18	77 (N 77 E)	.27	96
5800 - 5850	13.3 DEG.	.64	100 (S 80 E)	.36	93
5850 - 5900	17.4 DEG.	.58	200 (S 20 W)	.05	93
5900 - 5950	16.2 DEG.	.58	158 (S 22 E)	.22	96
5950 - 6000	14.3 DEG.	.71	8 (N 8 E)	.22	96
6000 - 6050	9.5 DEG.	.93	210 (S 30 W)	.41	100
6050 - 6100	9.4 DEG.	.90	212 (S 32 W)	.67	98

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STATISTICAL SUMMARY OF DIP LOG CALCULATIONS
1.0 CORRELATION INTERVAL .3 STEP 15.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
5500 - 5550	.0 DEG.	.00	0 (N 0 E)	.00	0
5550 - 5600	.0 DEG.	.00	0 (N 0 E)	.00	0
5600 - 5650	.0 DEG.	.00	0 (N 0 E)	.00	0
5650 - 5700	.0 DEG.	.00	0 (N 0 E)	.00	0
5700 - 5750	3.1 DEG.	.00	291 (N 69 W)	1.00	1
5750 - 5800	6.4 DEG.	1.22	93 (S 87 E)	.44	98
5800 - 5850	14.0 DEG.	.61	131 (S 49 E)	.22	94
5850 - 5900	16.3 DEG.	.62	261 (S 81 W)	.11	93
5900 - 5950	17.3 DEG.	.57	188 (S 8 W)	.34	98
5950 - 6000	13.3 DEG.	.83	355 (N 5 W)	.32	93
6000 - 6050	11.1 DEG.	.93	223 (S 43 W)	.46	98
6050 - 6100	10.2 DEG.	.88	218 (S 38 W)	.45	99

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STATISTICAL SUMMARY OF DIP LOG CALCULATIONS
1.0 CORRELATION INTERVAL .3 STEP 15.0 MAXIMUM DIP ANGLE

DEPTH INTERVAL	AVERAGE DIP ANGLE	FRACTIONAL STANDARD DEVIATION	MEAN DIP AZIMUTH	VECTOR STRENGTH	NUMBER OF SAMPLES
5700 - 5750	5.5 DEG.	1.40	102 (S 78 E)	.23	41
5750 - 5800	6.9 DEG.	1.13	90 (S 90 E)	.27	100
5800 - 5850	12.3 DEG.	.74	108 (S 72 E)	.27	95
5850 - 5900	16.6 DEG.	.56	231 (S 51 W)	.15	96
5900 - 5950	16.3 DEG.	.55	175 (S 5 E)	.36	94
5950 - 6000	13.2 DEG.	.71	314 (N 46 W)	.24	92
6000 - 6050	11.2 DEG.	.77	212 (S 32 W)	.45	96
6050 - 6100	10.2 DEG.	.87	237 (S 57 W)	.69	97

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	DIA NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4178.0	4182.0	B	6.4	285	2.0	357	177	10.7	10.3	.6	.8	-1.1		1	0
4180.0	4184.0	C	12.9	252	2.1	358	177	11.1	10.2		-.2		-1.3	1	2
4182.0	4186.0	C	10.9	4	2.0	358	183	11.3	10.3	1.3			1.3	1	3
4184.0	4188.0	B	23.7	21	2.0	357	183	10.6	10.2	1.8			3.1	1	3
4186.0	4190.0	D	22.2	64	2.0	357	180	10.3	10.1	-.7	2.2			1	4
4188.0	4192.0	A	3.5	261	2.0	356	177	10.3	10.0	.7	.3	-.6		1	0
4190.0	4194.0	A	4.1	236	2.1	356	174	10.4	10.0	.5	.0	-.6		1	0
4192.0	4196.0	A	4.6	203	2.1	356	171	10.4	10.0	.2	-.3	-.4		1	0
4194.0	4198.0	A	6.4	351	2.1	354	169	10.4	10.0	1.0	1.6	.1		1	0
4196.0	4200.0	B	9.2	349	2.2	354	167	10.5	10.0	.7	2.1	.1		1	0
4198.0	4202.0	C	7.6	46	2.2	354	164	10.5	10.0	-.1			1.2	1	3
4200.0	4204.0	A	4.4	195	2.3	354	162	10.5	10.0	-.3	-.3	-.3		1	0
4202.0	4206.0	A	3.2	198	2.3	354	159	10.6	10.1	.2	-.1	-.3		1	0
4204.0	4208.0	A	1.3	203	2.3	353	154	10.8	10.2	.3	.3	.0		1	0
4206.0	4210.0	A	2.6	216	2.4	352	149	10.9	10.3	.4	.2	-.3		1	0
4208.0	4212.0	A	8.0	201	2.4	351	143	11.0	10.4	.4	-.4	-1.0		1	0
4210.0	4214.0	B	23.4	180	2.4	351	138	11.1	10.5	-.2	-3.1			1	4
4212.0	4216.0	C	18.7	355	2.4	351	134	11.2	10.6	.3			3.0	1	3
4214.0	4218.0	A	7.6	234	2.4	351	131	11.3	10.6	.2	.7	-1.1		1	0
4218.0	4222.0	D	3.3	175	2.4	351	121	11.3	10.5	.0			-.1	1	3
4220.0	4224.0	C	9.3	139	2.4	351	114	11.1	10.4	-.4	-1.4	-.4		1	0
4222.0	4226.0	A	2.9	136	2.5	351	108	11.1	10.8	-.4	-.3	.2		1	0
4224.0	4228.0	A	3.9	140	2.4	350	102	11.0	11.4	-.4	-.4	.0		1	0
4226.0	4230.0	B	6.8	322	2.4	351	101	11.1	11.6	-.5	1.2	1.4		1	0
4228.0	4232.0	A	6.0	334	2.4	350	102	11.1	11.2	-.3	.9	1.4		1	0
4230.0	4234.0	A	9.8	33	2.4	350	100	11.0	10.9	-1.4	-.6	2.2		1	0
4232.0	4236.0	A	3.4	230	2.4	350	97	10.9	10.8	-.3	.6	.0		1	0
4234.0	4238.0	B	13.4	104	2.3	350	94	10.9	10.7	-1.8	-2.4	.0		1	0
4236.0	4240.0	A	15.5	78	2.3	351	91	10.8	10.7	-1.6	-2.9	1.1		1	0
4238.0	4242.0	B	4.7	90	2.3	350	82	10.8	10.6	-.9	-.9	.3		1	0
4240.0	4244.0	A	2.6	199	2.2	349	70	10.8	10.6	.1	.2	.0		1	0
4242.0	4246.0	C	24.3	276	2.1	348	59	11.0	10.9	.2			3.6	1	3
4244.0	4248.0	D	23.6	97	2.0	348	51	11.1	10.9	-.3			-3.3	1	3
4248.0	4252.0	C	26.4	217	1.9	348	42	10.9	10.7	2.7			2.4	1	3
4250.0	4254.0	B	21.8	171	1.8	349	38	10.9	10.7	2.8			-.1	1	3
4252.0	4256.0	B	34.0	115	1.8	349	35	11.1	10.9	2.7	-1.5			1	4
4254.0	4258.0	B	7.3	359	1.8	347	30	11.2	11.0	-1.1	-1.5	1.0		1	0
4258.0	4262.0	A	8.4	131	1.8	346	19	11.2	10.7	1.2	.3	-1.3		1	0
4260.0	4264.0	B	5.6	179	1.8	346	18	11.7	10.5	1.4	.8	-.2		1	0
4264.0	4268.0	C	16.9	346	1.7	344	2	12.3	10.5		-3.9		-1.5	1	2
4270.0	4274.0	C	4.9	100	1.4	344	330	10.5	10.4	.2	.3	-.7		1	0
4272.0	4276.0	A	2.3	110	1.3	345	321	10.4	10.3	.0	.1	-.3		1	0
4274.0	4278.0	A	2.7	151	1.3	347	313	10.5	10.3	.1	.3	.0		1	0
4276.0	4280.0	C	4.4	148	1.3	348	306	10.5	10.3	-.2	.6	.1		1	0
4278.0	4282.0	B	1.8	330	1.3	348	302	10.5	10.4	.2	-.4	-.3		1	0
4280.0	4284.0	A	.2	25	1.3	348	297	10.5	10.3	.2	-.1	-.2		1	0
4282.0	4286.0	A	12.8	180	1.2	348	291	10.5	10.2	-1.4	.7	2.0		1	0
4286.0	4290.0	C	6.0	202	1.3	348	280	10.5	10.3	-.9	-.3	.8		1	0
4288.0	4292.0	A	5.8	2	1.3	350	277	10.6	10.6	.4	-.2	-1.3		1	0
4290.0	4294.0	B	5.9	355	1.4	351	272	10.7	10.8	.3	-.2	-1.4		1	0
4292.0	4296.0	C	12.5	5	1.4	352	270	10.7	11.0		.2		-1.3	1	2
4294.0	4298.0	B	4.5	185	1.4	352	262	10.6	10.9	-1.3	-.2	.6		1	0
4296.0	4300.0	A	5.3	187	1.4	351	258	10.6	10.5	-.2	-.3	.7		1	0
4298.0	4302.0	A	6.4	88	1.4	351	258	10.7	10.6	-.3	1.2	-.1		1	0
4300.0	4304.0	A	7.0	301	1.4	352	254	10.7	10.7	-.6	-.9	-1.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4302.0	4306.0	B	8.0	210	1.4	352	253	10.7	10.5	-.9	-1.1			1	4
4304.0	4308.0	A	1.8	238	1.4	351	257	10.7	10.5	-.2	-.3	-.1		1	0
4306.0	4310.0	A	3.4	180	1.4	351	264	10.7	10.5	-.1	-.1	.4		1	0
4308.0	4312.0	B	18.3	16	1.4	350	263	10.8	10.8		1.4		-1.1	1	2
4310.0	4314.0	B	10.0	287	1.5	351	250	10.8	11.1	-1.0	-1.5	-1.5		1	0
4312.0	4316.0	D	10.8	273	1.6	350	238	10.7	10.8	-.1	-1.6			1	4
4314.0	4318.0	C	4.8	319	1.6	350	233	10.7	10.6	.3	.1	-1.1		1	0
4316.0	4320.0	D	16.8	322	1.6	350	228	10.6	10.6	2.6	.4	-3.4		1	0
4318.0	4322.0	C	5.3	287	1.6	350	224	10.6	10.6		-.3		-.7	1	2
4320.0	4324.0	B	7.9	178	1.6	350	221	10.6	10.6	-.8			-.1	1	3
4322.0	4326.0	B	2.1	84	1.6	350	217	10.6	10.6	-.6	.5	.1		1	0
4324.0	4328.0	B	8.0	68	1.7	349	214	10.6	10.6	.5	1.5	.6		1	0
4326.0	4330.0	A	7.9	63	1.7	349	208	10.6	10.6	.8	1.4	.6		1	0
4328.0	4332.0	A	11.3	282	1.8	349	202	10.7	10.6	.6	-.1	-2.3		1	0
4330.0	4334.0	D	5.2	56	1.8	350	197	10.7	10.6	.3	1.1			1	4
4332.0	4336.0	C	9.2	95	1.9	350	194	10.8	10.6	.0	.6	1.6		1	0
4334.0	4338.0	A	6.3	172	1.8	350	191	10.7	10.5	-.1	-.8	.3		1	0
4336.0	4340.0	B	5.5	178	1.9	350	187	10.7	10.5	-.5	-.7	.1		1	0
4338.0	4342.0	A	3.7	220	1.9	350	183	10.7	10.5	.5	-.2	-.5		1	0
4340.0	4344.0	A	3.8	200	2.0	350	179	10.7	10.5	.3	-.3	-.3		1	0
4342.0	4346.0	B	8.3	296	2.0	349	175	10.8	10.5	2.2	1.2	-1.4		1	0
4344.0	4348.0	C	5.6	315	2.0	349	172	10.9	10.6	1.3	1.3	-.6		1	0
4346.0	4350.0	A	2.1	357	2.0	348	168	10.9	10.5	.2	.8	.1		1	0
4348.0	4352.0	C	15.0	28	2.1	348	165	10.9	10.5	.3			2.3	1	3
4350.0	4354.0	D	25.9	84	2.1	347	161	11.0	10.6	-2.9			2.1	1	3
4352.0	4356.0	C	10.3	274	2.1	347	157	11.0	10.6		1.3		-.2	1	2
4354.0	4358.0	B	9.1	243	2.1	347	153	10.9	10.5	1.1	.4	-1.6		1	0
4356.0	4360.0	A	4.6	178	2.2	346	149	10.9	10.4	.0	-.4	-.3		1	0
4358.0	4362.0	A	2.3	232	2.2	345	146	10.9	10.4	.6	.4	-.3		1	0
4360.0	4364.0	B	8.1	204	2.2	345	144	10.9	10.4	.7	-.4	-1.1		1	0
4362.0	4366.0	A	7.5	282	2.2	345	141	10.8	10.4	.7	1.5	-.7		1	0
4364.0	4368.0	A	5.7	318	2.2	345	140	10.8	10.4	.5	1.5	.1		1	0
4366.0	4370.0	B	5.2	15	2.2	345	138	10.8	10.4	.4	.9	1.0		1	0
4368.0	4372.0	B	2.5	172	2.2	345	136	10.8	10.4	.0	.0	-.1		1	0
4370.0	4374.0	A	2.0	174	2.2	345	132	10.8	10.4	.0	.1	.0		1	0
4372.0	4376.0	A	2.7	227	2.2	344	126	10.8	10.5	.1	.4	-.2		1	0
4374.0	4378.0	A	2.7	33	2.2	344	121	10.9	10.6	-.4	.3	.8		1	0
4376.0	4380.0	B	.9	309	2.2	343	117	10.9	10.6	.0	.5	.3		1	0
4378.0	4382.0	C	1.3	329	2.2	343	114	10.9	10.6	.0	.5	.4		1	0
4380.0	4384.0	B	5.4	301	2.2	343	109	10.9	10.7	.3	1.3	.6		1	0
4384.0	4388.0	B	7.8	255	2.3	342	98	11.0	11.0	.7	1.6	-.2		1	0
4386.0	4390.0	D	5.2	259	2.2	341	96	11.0	11.0	.8	1.1	.1		1	0
4388.0	4392.0	C	1.0	180	2.2	341	96	10.9	10.9	.5	.2	.2		1	0
4390.0	4394.0	C	3.5	350	2.2	341	96	10.8	10.9	-.4	.4	1.0		1	0
4392.0	4396.0	A	1.8	345	2.2	342	95	10.8	11.0	-.4	.3	.7		1	0
4394.0	4398.0	A	1.4	157	2.2	341	91	10.7	10.9	-.7	.0	.1		1	0
4396.0	4400.0	A	3.1	195	2.2	341	90	10.7	10.7	.6	.3	-.2		1	0
4398.0	4402.0	A	3.2	174	2.2	341	92	10.7	10.7	.3	.1	-.2		1	0
4400.0	4404.0	B	2.0	205	2.2	343	95	10.7	10.6	.2	.3	.0		1	0
4402.0	4406.0	B	2.0	206	2.2	343	98	10.8	10.6	.4	.3	.0		1	0
4404.0	4408.0	A	2.8	167	2.2	343	100	10.8	10.7	.5	.0	-.1		1	0
4406.0	4410.0	A	12.5	280	2.2	342	99	10.9	11.3	.3	2.6	.4		1	0
4408.0	4412.0	A	4.2	223	2.2	340	88	10.8	11.7	.1	.7	-.2		1	0
4410.0	4414.0	A	8.5	136	2.2	337	72	10.8	11.3	.7	-.7	-1.1		1	0
4412.0	4416.0	B	3.0	37	2.1	336	66	10.8	11.0	.0	-.5	.7		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4416.0	4420.0	D	9.4	0	2.1	335	58	10.8	11.1	-1.7	-1.0	1.9		1	0
4420.0	4424.0	B	10.3	74	2.1	336	61	10.9	11.0	-1.7	-1.9	.0		1	0
4422.0	4426.0	D	4.8	175	2.1	336	61	10.8	11.0	-.5	.3	-.4		1	0
4424.0	4428.0	D	5.7	195	2.1	335	60	10.8	10.9	.0	.7	-.4		1	0
4426.0	4430.0	C	16.9	116	2.0	335	58	10.7	10.8		-1.8		-2.1	1	2
4428.0	4432.0	D	14.8	141	2.0	334	56	10.7	10.8	.8	-.3	-2.4		1	0
4430.0	4434.0	A	10.2	193	1.9	334	53	10.7	10.7	.4	1.4	-.9		1	0
4432.0	4436.0	B	10.1	265	1.9	333	48	10.7	10.6	.0	1.4			1	4
4434.0	4438.0	B	1.7	160	1.8	332	44	10.7	10.5	-.1	.0	.0		1	0
4436.0	4440.0	A	3.2	167	1.8	331	40	10.7	10.5	.2	.2	-.2		1	0
4438.0	4442.0	A	5.2	158	1.7	330	35	10.7	10.4	.5	.4	-.5		1	0
4440.0	4444.0	A	3.6	177	1.7	330	30	10.7	10.3	.4	.4	-.1		1	0
4442.0	4446.0	A	4.4	174	1.7	330	25	10.8	10.3	.4	.5	-.2		1	0
4444.0	4448.0	A	4.5	172	1.6	331	20	10.8	10.3	.3	.5	-.2		1	0
4446.0	4450.0	A	5.5	172	1.6	332	16	10.9	10.2	.6	.7	-.2		1	0
4448.0	4452.0	B	7.8	323	1.6	333	14	10.9	10.2	-1.2			.0	1	3
4450.0	4454.0	C	1.5	300	1.6	333	15	11.0	10.1	-1.3	-.3	.4		1	0
4452.0	4456.0	A	2.5	176	1.7	334	17	11.1	10.1	-.3	.2	.0		1	0
4454.0	4458.0	B	2.7	162	1.7	335	18	11.5	10.1	-.2	.2	-.1		1	0
4456.0	4460.0	C	3.8	190	1.7	334	19	11.7	10.2	.9	.5	.1		1	0
4458.0	4462.0	C	9.1	129	1.6	332	9	11.7	10.2		.7		-.3	1	2
4460.0	4464.0	A	12.6	85	1.4	332	353	10.9	10.0	1.5	-.2	-2.1		1	0
4466.0	4470.0	A	.9	169	1.3	332	334	10.6	9.9	.0	-.1	.0		1	0
4468.0	4472.0	A	6.2	99	1.2	332	328	10.6	10.0	1.4	.5	-.8		1	0
4470.0	4474.0	A	7.4	83	1.2	333	321	10.6	9.9	1.8	.5	-1.1		1	0
4472.0	4476.0	A	4.7	339	1.2	333	313	10.6	10.0	.6	-1.0	-.4		1	0
4474.0	4478.0	A	2.2	194	1.1	334	302	10.6	10.0	.1	-.1	.3		1	0
4476.0	4480.0	A	4.0	183	1.2	337	288	10.6	10.1	.0	.1	.5		1	0
4478.0	4482.0	A	6.5	197	1.2	341	275	10.6	10.3	.2	-.3	1.0		1	0
4480.0	4484.0	D	12.4	97	1.2	342	265	10.6	10.4	1.0			1.3	1	3
4484.0	4488.0	D	7.3	76	1.3	348	240	10.4	10.3	.4	1.4	.1		1	0
4486.0	4490.0	D	10.3	52	1.4	348	231	10.4	10.3	.5	2.0	-.2		1	0
4488.0	4492.0	C	3.9	35	1.5	349	222	10.5	10.3	.9	.9	-.3		1	0
4490.0	4494.0	D	6.2	43	1.6	349	215	10.5	10.4	.7	1.3	.0		1	0
4492.0	4496.0	B	8.1	169	1.6	349	209	10.5	10.4	-1.3	-.9	.7		1	0
4494.0	4498.0	B	6.9	170	1.7	349	203	10.6	10.4	-1.0	-.8	.5		1	0
4496.0	4500.0	B	8.2	166	1.7	349	197	10.6	10.4	-.8			-.2	1	3
4498.0	4502.0	C	3.6	260	1.8	349	192	10.6	10.4		.1		-.3	1	2
4500.0	4504.0	C	7.6	107	1.8	350	186	10.6	10.3	-.4	.1	1.3		1	0
4502.0	4506.0	D	6.9	159	1.9	350	182	10.6	10.3	-.8	-.8	.4		1	0
4504.0	4508.0	C	7.6	354	1.9	350	178	10.7	10.5	.2	1.8	-.2		1	0
4506.0	4510.0	B	7.1	317	1.9	350	175	10.8	10.5	1.2	1.4	-.8		1	0
4508.0	4512.0	C	13.0	264	1.9	350	173	10.9	10.5	1.2	.4	-2.4		1	0
4510.0	4514.0	D	17.0	327	1.9	349	172	10.9	10.5	2.4			1.0	1	3
4512.0	4516.0	B	12.3	339	2.0	349	172	10.9	10.4	1.4	2.7	-.5		1	0
4514.0	4518.0	B	13.6	335	1.9	350	171	10.7	10.3	1.6			1.1	1	3
4516.0	4520.0	A	7.0	339	1.9	350	170	10.7	10.2	1.1	1.7	-.2		1	0
4518.0	4522.0	A	2.1	71	1.9	350	170	10.6	10.1	.0	.4	.4		1	0
4520.0	4524.0	A	1.9	66	1.9	350	170	10.6	10.1	.1	.4	.3		1	0
4522.0	4526.0	A	3.9	157	1.9	350	169	10.7	10.1	.1	-.3	.2		1	0
4524.0	4528.0	A	4.7	157	2.0	350	168	10.8	10.1	.2	-.5	.2		1	0
4526.0	4530.0	A	6.7	162	2.0	350	168	11.0	10.1	.4	-.9	.1		1	0
4528.0	4532.0	A	2.5	192	2.0	350	168	11.0	10.1	.1	-.1	-.2		1	0
4530.0	4534.0	C	9.3	138	2.0	350	167	10.9	10.1	-1.0			-.2	1	3
4532.0	4536.0	C	11.1	119	2.0	349	165	10.8	10.1	-1.3			.2	1	3

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4534.0	4538.0	B	3.4	151	2.0	349	163	10.8	10.1	.0	-.3	.2		1	0
4536.0	4540.0	A	4.0	153	2.0	348	161	10.7	10.1	.0	-.4	.1		1	0
4538.0	4542.0	A	4.1	157	2.0	348	157	10.8	10.1	.2	-.4	.1		1	0
4540.0	4544.0	A	3.4	131	2.0	347	155	10.8	10.2	.0	-.2	.3		1	0
4542.0	4546.0	A	4.3	89	2.1	347	154	10.9	10.2	-.6	.0	.8		1	0
4544.0	4548.0	B	15.1	121	2.1	348	151	11.0	10.3	-1.8			-.3	1	3
4546.0	4550.0	C	16.5	122	2.1	348	149	11.0	10.4	-2.0			-.5	1	3
4548.0	4552.0	D	22.7	54	2.1	348	147	11.0	10.4	-1.9			2.6	1	3
4550.0	4554.0	C	12.5	38	2.2	347	143	11.0	10.4		1.0		1.7	1	2
4552.0	4556.0	C	11.1	46	2.2	347	138	11.0	10.5		.5		1.4	1	2
4554.0	4558.0	C	27.6	71	2.2	346	135	11.0	10.4		-2.1		1.5	1	2
4556.0	4560.0	D	14.1	271	2.3	346	132	10.9	10.4	2.3	2.4	-1.5		1	0
4558.0	4562.0	D	10.3	9	2.3	346	131	10.9	10.4	.1	1.4	1.9		1	0
4560.0	4564.0	D	2.1	327	2.3	346	129	10.8	10.4	-.2	.7	.4		1	0
4562.0	4566.0	B	13.6	35	2.3	346	127	10.7	10.3	-1.2	.5			1	4
4564.0	4568.0	A	7.7	0	2.2	346	126	10.7	10.2	.7	1.2	1.4		1	0
4566.0	4570.0	B	10.1	6	2.2	346	124	10.7	10.3	.2	1.2	1.9		1	0
4568.0	4572.0	B	20.3	225	2.2	346	121	10.6	10.3		1.2		-1.1	1	2
4570.0	4574.0	A	5.0	213	2.2	345	117	10.5	10.2	.2	.4	-.6		1	0
4572.0	4576.0	A	.5	30	2.2	346	113	10.5	10.2	.0	.2	.4		1	0
4574.0	4578.0	A	4.9	272	2.3	346	110	10.6	10.2	.2	1.1	.1		1	0
4576.0	4580.0	B	3.6	301	2.2	346	108	10.5	10.3	.4	.9	.5		1	0
4578.0	4582.0	B	3.8	21	2.2	345	106	10.5	10.3	-.4	.1	1.0		1	0
4580.0	4584.0	A	3.8	294	2.2	345	103	10.5	10.4	-.3	.9	.5		1	0
4582.0	4586.0	A	3.8	293	2.3	344	98	10.5	10.4	-.1	.8	.6		1	0
4584.0	4588.0	B	3.8	326	2.3	343	92	10.5	10.5	-.2	.5	1.0		1	0
4586.0	4590.0	A	13.7	336	2.2	343	87	10.6	10.6	-.8	1.0	2.8		1	0
4588.0	4592.0	A	15.2	322	2.2	342	86	10.6	10.6	-.7	1.8	2.8		1	0
4590.0	4594.0	C	1.3	73	2.2	343	87	10.6	10.6	-.3			.2	1	3
4592.0	4596.0	A	1.0	94	2.2	344	90	10.5	10.5	-.1	.0	.5		1	0
4594.0	4598.0	B	1.1	235	2.2	345	92	10.5	10.6	.0	.3	.3		1	0
4596.0	4600.0	C	7.9	177	2.2	344	90	10.5	10.7	.0	.1	-1.1		1	0
4598.0	4602.0	B	7.1	184	2.2	343	85	10.5	10.6		.3		-.3	1	2
4600.0	4604.0	B	7.2	353	2.2	342	82	10.5	10.5		.0		.9	1	2
4602.0	4606.0	A	3.5	313	2.2	341	77	10.5	10.5	-.6	.4	.9		1	0
4604.0	4608.0	A	4.2	283	2.1	339	67	10.5	10.4	-.7	.6	.8		1	0
4606.0	4610.0	C	36.7	305	2.0	338	56	10.5	10.3	-2.5	2.7			1	4
4608.0	4612.0	A	2.1	286	1.9	336	44	10.5	10.2	-.4	.0	.6		1	0
4610.0	4614.0	A	1.5	249	1.8	336	34	10.5	10.1	-.3	.0	.4		1	0
4612.0	4616.0	A	2.1	342	1.7	336	25	10.5	10.1	-.2	-.5	.5		1	0
4614.0	4618.0	A	3.1	335	1.7	336	19	10.5	10.1	-.5	-.6	.6		1	0
4616.0	4620.0	A	1.9	4	1.6	335	13	10.5	10.2	-.2	-.6	.2		1	0
4618.0	4622.0	A	2.7	154	1.6	335	9	10.6	10.2	.4	.2	-.1		1	0
4620.0	4624.0	A	.0	0	1.5	336	8	10.6	10.2	-.1	-.2	.2		1	0
4622.0	4626.0	A	1.6	82	1.6	337	9	10.6	10.2	-.1	-.3	-.1		1	0
4624.0	4628.0	B	.4	103	1.5	336	2	10.7	10.2	-.1	-.2	.0		1	0
4626.0	4630.0	A	4.6	233	1.5	333	354	10.7	10.2	-.6	.2	.8		1	0
4628.0	4632.0	A	1.2	324	1.4	332	349	10.7	10.2	-.2	-.5	.2		1	0
4630.0	4634.0	A	.7	341	1.4	332	345	10.7	10.2	-.2	-.4	.1		1	0
4632.0	4636.0	A	.9	129	1.3	331	340	10.7	10.3	-.1	-.1	.0		1	0
4634.0	4638.0	A	6.5	173	1.3	330	336	10.7	10.3	-.1	.9	.4		1	0
4636.0	4640.0	A	3.6	156	1.2	331	333	10.6	10.2	-.5	.4	.0		1	0
4638.0	4642.0	A	4.7	47	1.2	331	329	10.5	10.2	.3	-.4	-.8		1	0
4640.0	4644.0	A	4.0	72	1.1	332	323	10.5	10.3	.6	.0	-.7		1	0
4642.0	4646.0	A	2.4	155	1.1	332	316	10.5	10.4	.0	.2	.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4644.0	4648.0	A	2.6	168	1.0	334	306	10.5	10.4	-.1	.2	.2		1	0
4646.0	4650.0	B	1.1	233	1.0	337	294	10.5	10.5	-.4	-.2	.1		1	0
4648.0	4652.0	A	.6	182	1.0	339	285	10.5	10.6	-.1	-.1	.0		1	0
4650.0	4654.0	A	1.0	207	1.0	342	280	10.5	10.7	.0	-.1	.0		1	0
4652.0	4656.0	A	1.4	207	1.0	345	275	10.5	10.7	.0	-.2	.1		1	0
4654.0	4658.0	C	.6	44	1.0	347	273	10.5	10.9	.2	.0	-.3		1	0
4656.0	4660.0	D	2.4	35	1.1	351	269	10.6	11.1	-.2	.2	-.6		1	0
4658.0	4662.0	C	2.9	149	1.1	351	265	10.6	11.2	.6	.2	.3		1	0
4660.0	4664.0	D	3.3	62	1.1	349	263	10.6	11.5	.5	.6			1	4
4666.0	4670.0	B	4.1	173	1.3	351	241	10.7	11.1	-.4	-.2	.5		1	0
4668.0	4672.0	A	2.1	182	1.3	350	237	10.6	11.1	-.4	-.1	.1		1	0
4670.0	4674.0	A	.4	335	1.3	350	232	10.6	11.0	-.1	.1	-.3		1	0
4672.0	4676.0	A	.3	120	1.3	350	227	10.6	10.8	.3	.1	-.2		1	0
4674.0	4678.0	A	1.7	317	1.3	351	223	10.6	10.7	.4	.2	-.5		1	0
4676.0	4680.0	A	10.0	249	1.4	351	220	10.6	10.7	.5	-1.5	-1.1		1	0
4678.0	4682.0	A	10.2	246	1.4	350	217	10.5	10.6	.5	-1.5	-1.1		1	0
4680.0	4684.0	A	2.1	141	1.4	351	216	10.5	10.6	.1	.1	.2		1	0
4682.0	4686.0	A	4.2	255	1.4	351	216	10.4	10.5	.4	-.4	-.7		1	0
4684.0	4688.0	A	4.0	277	1.3	352	216	10.4	10.4	.7	-.2	-.8		1	0
4686.0	4690.0	A	5.4	11	1.3	352	214	10.4	10.4	1.0	1.1	-.6		1	0
4688.0	4692.0	A	4.8	25	1.4	352	213	10.4	10.4	.9	1.1	-.3		1	0
4690.0	4694.0	A	8.0	61	1.4	352	211	10.5	10.4	1.1	1.5	.6		1	0
4692.0	4696.0	A	7.4	56	1.4	352	209	10.5	10.4	1.0	1.4	.5		1	0
4694.0	4698.0	A	4.7	272	1.4	352	206	10.5	10.4	.2	-.1	-.9		1	0
4696.0	4700.0	A	6.7	219	1.4	352	201	10.6	10.4	.3	-1.0	-.5		1	0
4698.0	4702.0	A	6.4	199	1.5	353	196	10.7	10.3	-.2	-.9	-.2		1	0
4700.0	4704.0	A	4.0	180	1.5	353	191	10.9	10.3	-.2	-.5	.1		1	0
4702.0	4706.0	B	26.2	248	1.6	353	187	11.0	10.4	-.9	-2.3		-3.4	1	2
4704.0	4708.0	B	7.8	213	1.6	353	185	11.1	10.4	-.9	-1.0	-.7		1	0
4706.0	4710.0	B	5.5	207	1.6	353	181	11.2	10.4	-.1	-.7	-.5		1	0
4708.0	4712.0	A	3.7	193	1.7	353	179	11.4	10.5	-.2	-.4	-.2		1	0
4710.0	4714.0	B	2.1	247	1.8	354	178	11.7	10.6	.1	.2	-.4		1	0
4712.0	4716.0	D	11.0	248	1.8	353	178	11.5	10.6	.8			-1.2	1	3
4714.0	4718.0	B	4.9	332	1.7	353	177	11.5	10.6	.7	1.3	-.4		1	0
4716.0	4720.0	A	5.4	288	1.8	352	173	11.6	10.7	.7	.8	-.9		1	0
4718.0	4722.0	B	12.9	267	1.8	351	170	11.7	10.8	1.6			-.9	1	3
4720.0	4724.0	D	16.3	247	1.8	350	167	11.8	10.8	1.4			-1.7	1	3
4722.0	4726.0	C	7.2	209	1.9	350	166	11.8	10.8	.1	-.7	-.9		1	0
4724.0	4728.0	A	3.2	42	1.9	350	165	11.7	10.8	-.2	.7	.5		1	0
4726.0	4730.0	A	2.3	86	1.9	350	165	11.5	10.6	-.7	.3	.4		1	0
4728.0	4732.0	A	3.4	195	1.8	350	164	11.4	10.3	.0	-.2	-.3		1	0
4730.0	4734.0	A	4.4	193	1.8	350	163	11.2	10.2	.0	-.4	-.4		1	0
4732.0	4736.0	A	3.0	204	1.8	350	163	11.2	10.1	.0	-.1	-.3		1	0
4734.0	4738.0	A	1.2	155	1.9	351	166	11.5	10.0	.3	.1	.1		1	0
4736.0	4740.0	A	3.6	133	1.8	352	166	11.4	10.0	-.6	-.2	.4		1	0
4738.0	4742.0	A	5.3	134	1.7	352	166	11.0	9.9	-.5	-.5	.5		1	0
4740.0	4744.0	B	1.5	53	1.7	352	166	11.0	9.9	.2	.4	.3		1	0
4742.0	4746.0	B	1.3	59	1.7	352	167	11.0	9.9	.2	.4	.2		1	0
4744.0	4748.0	B	3.2	146	1.7	352	169	11.1	9.9	.3	-.2	.2		1	0
4746.0	4750.0	B	10.4	164	1.7	352	171	11.4	10.0	-1.0			-.7	1	3
4748.0	4752.0	B	7.4	270	1.8	349	166	11.3	9.9		.7		-.3	1	2
4750.0	4754.0	B	7.4	259	1.8	348	160	11.1	9.9		.6		-.3	1	2
4752.0	4756.0	A	6.4	206	1.7	349	159	11.0	9.8	.0	-.5	-.8		1	0
4754.0	4758.0	A	1.8	200	1.8	351	161	11.1	9.8	.1	.1	-.1		1	0
4756.0	4760.0	A	2.9	190	1.9	351	165	12.1	9.7	.1	-.2	-.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4758.0	4762.0	A	2.3	213	1.8	350	165	13.4	9.7	-.1	.1	-.3		1	0
4760.0	4764.0	C	4.7	87	1.8	349	160	12.8	9.7	-.2	.1	.8		1	0
4762.0	4766.0	A	2.6	184	1.8	348	157	11.4	9.7	.4	-.1	-.1		1	0
4764.0	4768.0	A	1.9	178	1.8	349	158	10.9	9.7	.0	.0	-.1		1	0
4766.0	4770.0	A	1.8	177	1.7	350	160	10.8	9.7	-.1	.0	.0		1	0
4768.0	4772.0	A	4.7	122	1.7	350	161	10.8	9.6	-.5	-.4	.5		1	0
4770.0	4774.0	A	5.3	121	1.8	351	162	10.8	9.6	-.6	-.4	.6		1	0
4772.0	4776.0	A	2.1	173	1.8	351	163	11.2	9.6	.2	-.1	.0		1	0
4774.0	4778.0	B	9.8	167	1.8	351	167	12.0	9.6	-.2	-1.7	.0		1	0
4776.0	4780.0	D	4.5	170	1.7	350	169	11.8	9.6		-.6		-.3	1	2
4778.0	4782.0	B	16.6	234	1.8	349	163	11.4	9.6	1.0			-1.7	1	3
4780.0	4784.0	B	4.9	249	1.8	348	157	10.9	9.6	1.0	.3	-.8		1	0
4782.0	4786.0	B	3.4	233	1.7	347	157	10.8	9.6	.3	.2	-.5		1	0
4784.0	4788.0	A	2.3	206	1.8	348	158	10.8	9.7	.1	.1	-.2		1	0
4786.0	4790.0	B	3.3	171	1.8	349	160	10.9	9.8	.0	-.3	-.1		1	0
4788.0	4792.0	B	6.7	242	1.8	349	163	10.8	9.9	.0	.1	-1.1		1	0
4790.0	4794.0	A	3.3	283	1.8	348	165	10.6	9.9	.3	.6	-.5		1	0
4792.0	4796.0	A	3.7	292	1.8	348	164	10.5	9.8	.4	.7	-.5		1	0
4794.0	4798.0	A	6.9	300	1.8	348	163	10.3	9.5	1.2	1.3	-.8		1	0
4796.0	4800.0	B	15.4	303	1.8	348	162	10.1	9.4	1.8	2.5	-1.6		1	0
4798.0	4802.0	D	23.7	281	1.8	349	163	10.1	9.4		2.4		-.6	1	2
4800.0	4804.0	B	25.0	89	1.8	349	167	10.2	9.3		-.6		1.8	1	2
4804.0	4808.0	D	17.0	97	1.6	350	183	10.0	9.4		.1		1.4	1	2
4806.0	4810.0	A	9.8	277	1.5	349	189	10.0	9.6	.9	.2	-1.7		1	0
4808.0	4812.0	A	5.3	266	1.5	349	188	10.2	9.8	.5	.1	-1.0		1	0
4810.0	4814.0	A	3.8	257	1.5	349	183	10.4	9.9	.4	.1	-.7		1	0
4812.0	4816.0	A	.1	291	1.6	348	179	10.4	9.9	.5	.3	-.1		1	0
4814.0	4818.0	A	1.8	214	1.6	348	176	10.4	9.9	.3	.1	-.2		1	0
4816.0	4820.0	A	6.6	18	1.7	348	171	10.4	9.9	.7	1.4	.5		1	0
4818.0	4822.0	A	6.0	5	1.7	348	165	10.3	9.9	.7	1.3	.4		1	0
4820.0	4824.0	A	2.4	233	1.8	348	159	10.3	9.9	.4	.2	-.3		1	0
4822.0	4826.0	A	2.2	230	1.8	348	155	10.3	9.8	.3	.2	-.3		1	0
4824.0	4828.0	A	1.9	225	1.9	348	152	10.3	9.8	.3	.2	-.2		1	0
4826.0	4830.0	A	1.5	203	1.9	348	150	10.2	9.8	.2	.2	-.1		1	0
4828.0	4832.0	A	2.5	187	1.8	348	149	10.2	9.8	.2	.0	-.2		1	0
4830.0	4834.0	A	1.0	204	1.9	347	148	10.2	9.8	.2	.2	.0		1	0
4832.0	4836.0	A	.7	201	1.9	346	147	10.2	9.8	.2	.2	.0		1	0
4834.0	4838.0	A	3.0	142	1.9	345	144	10.2	9.8	-.5	-.2	.1		1	0
4836.0	4840.0	A	6.7	137	1.9	344	141	10.2	9.8	-.9	-.9	.2		1	0
4838.0	4842.0	B	16.7	51	1.9	344	138	10.2	9.9	-1.5	.2			1	4
4840.0	4844.0	A	2.0	181	1.9	343	134	10.1	9.8	-.3	.1	-.1		1	0
4842.0	4846.0	A	2.4	181	1.9	341	130	10.0	9.8	-.3	.0	-.1		1	0
4844.0	4848.0	B	3.2	3	1.9	340	124	9.9	9.8	.6	.6	.7		1	0
4846.0	4850.0	A	1.4	118	1.9	339	117	9.9	9.8	.1	.0	.2		1	0
4848.0	4852.0	A	1.4	126	1.9	338	111	9.9	9.8	.1	.0	.2		1	0
4850.0	4854.0	D	9.6	332	1.9	338	107	9.9	10.0		1.4		1.4	1	2
4852.0	4856.0	D	2.0	157	1.9	338	105	10.0	10.2	-.9	.0	.0		1	0
4854.0	4858.0	D	2.3	38	1.9	339	102	10.1	10.5	.0	.0	.7		1	0
4858.0	4862.0	C	1.9	2	1.9	337	81	10.1	10.6	-.1	.0	.7		1	0
4860.0	4864.0	B	2.9	332	1.8	336	73	10.2	10.4	-.6	.1	.9		1	0
4862.0	4866.0	B	2.3	326	1.8	336	66	10.3	10.4	-.3	.1	.7		1	0
4864.0	4868.0	A	1.4	255	1.7	334	59	10.4	10.4	-.2	.2	.4		1	0
4866.0	4870.0	A	3.1	232	1.7	333	51	10.6	10.5	.0	.5	.3		1	0
4868.0	4872.0	A	4.7	351	1.6	331	44	10.8	10.6	-.1	-.6	1.0		1	0
4870.0	4874.0	C	11.4	241	1.6	331	39	11.0	10.7	.0	1.9	1.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4874.0	4878.0	D	19.3	123	1.6	333	37	11.0	10.8	1.6	-.4			1	4
4876.0	4880.0	B	2.4	161	1.6	333	36	10.9	10.7	-.1	.1	-.1		1	0
4878.0	4882.0	A	1.8	163	1.5	331	34	10.7	10.6	-.2	.1	.0		1	0
4880.0	4884.0	A	3.2	355	1.5	329	29	10.7	10.4	-.4	-.6	.6		1	0
4882.0	4886.0	A	1.5	254	1.4	329	25	10.7	10.4	-.7	.0	.4		1	0
4884.0	4888.0	A	1.7	247	1.4	327	20	10.7	10.3	-.8	.1	.4		1	0
4886.0	4890.0	A	2.0	262	1.3	326	12	10.7	10.2	-.2	.0	.5		1	0
4888.0	4892.0	A	2.6	244	1.3	328	8	10.7	10.2	-.3	.1	.5		1	0
4890.0	4894.0	A	2.1	249	1.2	327	5	10.6	10.2	-.2	.0	.5		1	0
4892.0	4896.0	A	2.1	255	1.2	328	359	10.6	10.2	-.2	-.1	.5		1	0
4894.0	4898.0	A	4.1	268	1.1	328	352	10.5	10.2	-.6	-.3	.8		1	0
4896.0	4900.0	B	4.6	37	1.0	329	344	10.4	10.1		-.7		-.6	1	2
4898.0	4902.0	B	8.4	219	.9	331	334	10.4	10.0	.0	.5	1.3		1	0
4900.0	4904.0	C	13.8	326	.8	334	322	10.3	10.0	-1.2			-1.4	1	3
4902.0	4906.0	C	10.3	332	.8	339	309	10.3	10.0	-.7	-1.8	-.8		1	0
4904.0	4908.0	D	3.2	9	.7	343	296	10.2	10.1	-.4	-.3	-.6		1	0
4906.0	4910.0	B	8.4	167	.7	351	282	10.2	10.0	-.1	.6	1.2		1	0
4908.0	4912.0	A	4.0	149	.8	358	270	10.1	9.9	.1	.4	.5		1	0
4910.0	4914.0	A	1.7	125	.8	2	262	10.1	9.9	.0	.2	.1		1	0
4912.0	4916.0	A	3.6	38	.9	4	255	10.1	9.9	.6	.6	-.5		1	0
4914.0	4918.0	A	4.1	22	.9	6	249	10.1	9.9	.7	.6	-.7		1	0
4916.0	4920.0	A	5.4	246	1.0	8	243	10.1	9.8	-.1	-.9	-.2		1	0
4918.0	4922.0	A	5.5	241	1.0	9	238	10.1	9.8	-.1	-.9	-.2		1	0
4920.0	4924.0	A	.7	180	1.1	9	232	10.1	9.8	.0	.1	.0		1	0
4922.0	4926.0	B	2.4	147	1.1	10	227	10.1	9.8	.3	.1	.3		1	0
4924.0	4928.0	A	5.1	198	1.2	9	222	10.2	9.8	-.4	-.7	.2		1	0
4926.0	4930.0	A	4.4	208	1.2	9	218	10.2	9.8	-.1	-.6	.0		1	0
4930.0	4934.0	A	.9	173	1.3	7	209	10.2	9.9	.0	.1	.0		1	0
4932.0	4936.0	A	.4	73	1.3	7	206	10.3	9.9	.0	.3	.0		1	0
4934.0	4938.0	A	.6	176	1.3	6	203	10.3	9.9	-.3	.1	.0		1	0
4936.0	4940.0	A	1.1	296	1.3	5	201	10.3	10.0	.3	.2	-.3		1	0
4938.0	4942.0	A	1.3	293	1.3	5	199	10.4	10.0	.3	.3	-.3		1	0
4940.0	4944.0	A	1.1	254	1.4	4	198	10.4	10.0	.2	.1	-.2		1	0
4942.0	4946.0	A	1.4	123	1.4	4	197	10.4	10.0	-.3	.2	.2		1	0
4944.0	4948.0	D	3.7	180	1.4	4	195	10.4	10.0	-.3			-.1	1	3
4946.0	4950.0	D	17.0	254	1.4	4	194	10.4	10.0	.7	-1.3			1	4
4948.0	4952.0	B	1.7	199	1.4	4	192	10.4	10.0	.2	.0	-.1		1	0
4950.0	4954.0	A	1.9	240	1.5	5	190	10.3	9.9	.2	.0	-.3		1	0
4952.0	4956.0	A	5.0	264	1.5	4	188	10.3	9.9	.5	.0	-.9		1	0
4954.0	4958.0	B	5.6	255	1.5	3	187	10.4	10.0	.5	-.1	-.9		1	0
4956.0	4960.0	B	3.9	246	1.5	4	185	10.4	10.0	.0	-.1	-.6		1	0
4958.0	4962.0	A	1.8	235	1.5	3	184	10.4	10.0	.0	.1	-.3		1	0
4960.0	4964.0	A	2.4	254	1.5	3	182	10.4	10.0	.0	.1	-.4		1	0
4962.0	4966.0	A	3.3	291	1.6	4	180	10.4	9.9	.7	.5	-.5		1	0
4964.0	4968.0	A	3.3	283	1.6	4	177	10.3	9.9	.7	.4	-.5		1	0
4966.0	4970.0	A	3.8	250	1.6	3	175	10.3	9.9	.4	.1	-.6		1	0
4968.0	4972.0	A	5.0	289	1.6	1	172	10.3	9.9	.7	.7	-.7		1	0
4970.0	4974.0	A	4.2	260	1.6	1	169	10.4	9.9	.5	.3	-.7		1	0
4978.0	4982.0	A	2.2	281	1.6	359	162	10.5	10.1	.6	.5	-.3		1	0
4980.0	4984.0	A	8.7	168	1.6	359	160	10.5	10.1	.0	-1.3	-.1		1	0
4982.0	4986.0	A	8.1	164	1.6	358	159	10.5	10.1	-.1	-1.2	.0		1	0
4984.0	4988.0	A	.5	2	1.7	358	157	10.5	10.1	.2	.4	.1		1	0
4986.0	4990.0	A	2.2	297	1.7	357	154	10.5	10.0	.4	.6	-.1		1	0
4988.0	4992.0	A	2.7	298	1.7	357	153	10.5	10.0	.4	.7	-.2		1	0
4990.0	4994.0	A	1.9	217	1.7	357	152	10.5	10.0	.0	.1	-.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
4992.0	4996.0	A	2.1	225	1.6	358	153	10.4	9.9	.0	.2	-.2		1	0
4994.0	4998.0	D	11.9	71	1.6	358	154	10.4	9.9		.0		1.1	1	2
4996.0	5000.0	D	24.6	242	1.6	359	155	10.4	9.8	2.2	.0			1	4
4998.0	5002.0	C	23.6	331	1.6	359	155	10.4	9.8	2.5			2.3	1	3
5000.0	5004.0	C	5.2	163	1.6	358	154	10.5	9.8	-1.2	-.7	.0		1	0
5002.0	5006.0	A	11.0	119	1.6	357	151	10.5	9.8	-1.6	-1.4	1.1		1	0
5004.0	5008.0	A	2.4	149	1.6	357	150	10.4	9.8	-.2	-.2	.1		1	0
5006.0	5010.0	A	1.0	216	1.6	355	147	10.4	9.8	.1	.2	.0		1	0
5008.0	5012.0	A	1.5	181	1.6	354	145	10.4	9.9	.1	.0	.0		1	0
5010.0	5014.0	C	2.9	300	1.6	354	142	10.3	9.9	.7	.7	.0		1	0
5012.0	5016.0	B	2.8	178	1.7	354	138	10.3	10.0	-.2	-.1	-.1		1	0
5014.0	5018.0	B	2.4	245	1.7	353	132	10.3	10.1	.1	.4	-.2		1	0
5016.0	5020.0	A	1.0	61	1.7	352	126	10.3	10.2	-.1	.1	.4		1	0
5018.0	5022.0	A	21.1	218	1.7	351	120	10.3	10.3	2.7	.8	-3.7		1	0
5020.0	5024.0	B	14.0	237	1.6	351	116	10.4	10.5		1.5		-.2	1	2
5022.0	5026.0	A	3.0	251	1.7	351	112	10.4	10.6	.0	.6	-.1		1	0
5030.0	5034.0	C	11.7	66	1.7	350	114	11.3	16.0	-2.1	-1.4			1	4
5032.0	5036.0	B	13.7	62	1.7	351	117	10.6	11.6	-1.9	-1.3			1	4
5034.0	5038.0	A	9.9	204	1.7	351	116	10.4	10.7	.8	.1	-1.6		1	0
5036.0	5040.0	B	5.1	217	1.7	351	113	10.4	10.8	-.1	.4	-.7		1	0
5038.0	5042.0	B	1.9	252	1.7	350	111	10.5	10.8	-.7	.4	.1		1	0
5040.0	5044.0	A	5.9	33	1.7	350	108	10.5	10.9	-.6	-.1	1.4		1	0
5042.0	5046.0	A	2.9	106	1.7	350	106	10.5	11.0	-.8	-.4	.3		1	0
5044.0	5048.0	A	14.6	37	1.7	350	100	10.6	11.4	-2.4	-1.2	3.0		1	0
5046.0	5050.0	D	21.3	229	1.7	348	89	10.9	11.8	2.9	3.3			1	4
5048.0	5052.0	B	16.4	178	1.6	345	81	11.0	11.6	1.7	.4			1	4
5050.0	5054.0	A	2.3	124	1.6	343	78	10.9	11.3	.0	-.3	.0		1	0
5052.0	5056.0	B	11.0	57	1.6	343	75	10.9	11.2	-2.0	-2.0	1.0		1	0
5054.0	5058.0	C	22.7	51	1.6	342	73	10.9	11.1	-3.1			-1.1	1	3
5056.0	5060.0	C	17.2	357	1.6	342	69	11.0	11.0	-2.3			1.3	1	3
5058.0	5062.0	D	13.3	27	1.5	341	65	11.0	10.8	-2.0			-.1	1	3
5060.0	5064.0	D	31.8	306	1.4	342	58	11.0	10.7	-2.1	2.4			1	4
5062.0	5066.0	C	12.5	21	1.3	341	50	11.0	10.6	-1.7	-2.2	1.4		1	0
5064.0	5068.0	C	12.1	26	1.3	341	45	11.0	10.5	-1.3	-2.3	.9		1	0
5066.0	5070.0	B	13.4	44	1.2	341	41	11.0	10.4	-1.5	-2.7	.1		1	0
5068.0	5072.0	C	14.8	54	1.2	341	37	11.0	10.3	-1.1			-1.8	1	3
5070.0	5074.0	B	13.1	52	1.1	340	34	11.0	10.3	-.8	-2.5	-.6		1	0
5072.0	5076.0	B	12.4	346	1.1	339	30	11.0	10.2	-1.3	-1.9	1.7		1	0
5074.0	5078.0	B	12.9	318	1.0	338	27	11.0	10.2	-1.7	-1.0	2.3		1	0
5076.0	5080.0	A	12.7	34	.9	337	23	11.2	10.2	-1.5	-2.6	-.3		1	0
5078.0	5082.0	A	12.2	31	.9	337	20	11.5	10.2	-1.4	-2.6	-.3		1	0
5080.0	5084.0	A	2.7	100	.9	337	23	11.8	10.2	.1	-.3	-.3		1	0
5082.0	5086.0	A	2.6	115	1.0	335	29	12.5	10.5	-.2	-.2	-.3		1	0
5084.0	5088.0	A	2.1	101	.9	334	25	13.2	10.6	-.3	-.3	-.2		1	0
5086.0	5090.0	A	2.6	112	.9	333	21	12.2	10.2	.5	-.1	-.3		1	0
5088.0	5092.0	A	15.6	112	.8	328	20	10.9	10.0	1.0	.0	-2.7		1	0
5090.0	5094.0	A	7.1	159	.8	328	17	10.8	9.9	1.4	1.0	-.7		1	0
5092.0	5096.0	A	15.3	184	.7	327	11	10.8	9.9	1.4	2.8	-.2		1	0
5094.0	5098.0	A	1.3	186	.6	327	8	10.8	9.8	.1	.2	.1		1	0
5096.0	5100.0	A	.9	215	.6	328	5	10.9	9.8	.0	.1	.1		1	0
5098.0	5102.0	B	1.3	252	.6	331	2	11.0	9.8	.0	.0	.3		1	0
5100.0	5104.0	B	2.6	172	.6	333	1	11.5	9.9	.5	.4	.0		1	0
5102.0	5106.0	A	2.2	120	.6	336	3	11.9	9.9	.6	.1	-.3		1	0
5104.0	5108.0	A	2.1	306	.6	337	1	11.5	10.0	-.3	-.4	.3		1	0
5106.0	5110.0	B	2.0	290	.5	334	352	11.2	10.1	-.3	-.3	.3		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5108.0	5112.0	B	10.1	104	.5	334	348	11.2	10.1	.4	.8	-1.6		1	0
5110.0	5114.0	B	1.9	298	.4	336	345	11.3	10.2	-.4	-.3	.3		1	0
5112.0	5116.0	A	2.6	276	.3	340	341	11.1	10.2	-.5	-.3	.4		1	0
5114.0	5118.0	A	2.2	119	.3	342	338	11.1	10.3	.3	.3	-.3		1	0
5116.0	5120.0	A	2.5	102	.3	343	336	11.1	10.4	.4	.2	-.4		1	0
5118.0	5122.0	A	6.7	99	.3	341	335	11.1	10.4	.3	.7	-1.0		1	0
5120.0	5124.0	B	3.5	170	.3	338	334	11.1	10.4	.2	.6	.2		1	0
5122.0	5126.0	A	6.7	217	.4	338	332	11.1	10.4	.2	.5	1.1		1	0
5124.0	5128.0	A	5.1	231	.3	334	329	11.0	10.4	-.1	.1	.9		1	0
5126.0	5130.0	A	3.3	285	.3	39	326	11.0	10.4	-.2	-.5	.3		1	0
5128.0	5132.0	A	3.1	335	.3	75	322	10.9	10.4	.0	-.6	-.2		1	0
5130.0	5134.0	B	1.6	262	.3	75	317	10.9	10.4	.1	-.1	.2		1	0
5132.0	5136.0	A	2.6	274	.2	75	315	10.8	10.4	-.3	-.4	.3		1	0
5134.0	5138.0	B	2.8	310	.2	75	310	10.8	10.4	-.4	-.5	.0		1	0
5136.0	5140.0	B	.4	274	.2	75	305	10.8	10.4	.2	.0	.0		1	0
5138.0	5142.0	A	1.4	338	.1	75	301	10.8	10.4	-.4	-.2	-.2		1	0
5140.0	5144.0	D	1.5	283	.1	75	299	10.7	10.4	-.4	-.3	.1		1	0
5142.0	5146.0	B	1.7	264	.2	75	297	10.7	10.4		-.2		.0	1	2
5144.0	5148.0	C	8.7	31	.2	75	296	10.7	10.4	.2	.2	-1.6		1	0
5146.0	5150.0	B	2.0	121	.1	75	294	10.7	10.4	.3	.4	.0		1	0
5148.0	5152.0	B	1.5	108	.1	75	295	10.7	10.3	.3	.3	.0		1	0
5150.0	5154.0	B	2.8	72	.1	75	297	10.7	10.3	.7	.4	-.4		1	0
5152.0	5156.0	D	8.2	45	.1	75	301	10.6	10.2	.9	.4			1	4
5154.0	5158.0	B	21.6	15	.0	75	301	10.5	10.1	1.3	-1.2			1	4
5156.0	5160.0	B	13.3	29	.0	75	300	10.3	9.9	1.2	.0			1	4
5158.0	5162.0	A	10.3	165	.1	75	296	10.2	9.9	.3	1.2	1.3		1	0
5160.0	5164.0	A	4.5	123	.1	75	292	10.1	9.8	.6	.8	.1		1	0
5162.0	5166.0	A	1.6	191	.2	75	287	10.1	9.8	-.1	.1	.3		1	0
5164.0	5168.0	A	2.5	206	.2	75	281	10.0	9.8	-.2	-.1	.4		1	0
5166.0	5170.0	A	4.9	154	.2	75	276	10.0	9.8	-.2	.5	.7		1	0
5168.0	5172.0	B	19.9	151	.3	75	271	10.0	9.8	-.6	1.9			1	4
5170.0	5174.0	B	24.6	150	.3	74	266	10.0	9.9	-1.0	2.0			1	4
5172.0	5176.0	B	8.8	142	.3	72	260	10.1	10.0	-.3	.8	1.4		1	0
5174.0	5178.0	A	5.1	148	.4	67	255	10.1	10.1	-.3	.3	.9		1	0
5176.0	5180.0	A	3.4	173	.4	62	250	10.2	10.2	-.3	-.1	.6		1	0
5178.0	5182.0	A	.6	100	.5	55	244	10.3	10.3	.2	.2	.1		1	0
5180.0	5184.0	A	.9	299	.5	50	238	10.3	10.4	.0	.0	-.2		1	0
5182.0	5186.0	A	2.6	247	.6	44	231	10.4	10.4	-.4	-.4	-.1		1	0
5184.0	5188.0	A	2.0	215	.6	39	225	10.5	10.4	-.2	-.2	.1		1	0
5186.0	5190.0	A	1.4	207	.7	33	219	10.6	10.4	-.1	-.1	.0		1	0
5188.0	5192.0	A	1.0	218	.7	30	214	10.6	10.4	.0	-.1	.0		1	0
5190.0	5194.0	B	.2	258	.8	28	209	10.7	10.4	.1			.0	1	3
5192.0	5196.0	A	3.3	29	.8	26	204	10.8	10.4	.1	.8	.1		1	0
5194.0	5198.0	A	.6	122	.8	24	201	10.8	10.4	.0	.1	.1		1	0
5196.0	5200.0	B	1.6	262	.8	23	198	10.9	10.4	.2	.0	-.3		1	0
5198.0	5202.0	A	3.1	351	.8	22	194	10.8	10.3	.5	.7	-.2		1	0
5200.0	5204.0	A	4.7	351	.8	20	191	10.8	10.3	.7	1.0	-.3		1	0
5202.0	5206.0	A	6.3	320	.9	20	188	10.9	10.3	1.3	1.0	-.8		1	0
5204.0	5208.0	A	4.6	266	.9	20	186	10.9	10.2	1.0	.0	-.8		1	0
5206.0	5210.0	A	8.8	205	.9	19	184	10.9	10.2	.1	-1.4	-.5		1	0
5208.0	5212.0	D	14.4	196	.9	18	182	10.9	10.2	-1.0			-1.6	1	3
5210.0	5214.0	D	2.7	283	.9	18	180	10.9	10.2	.3			-.1	1	3
5212.0	5216.0	B	13.1	335	.9	17	178	10.9	10.2	1.8	2.5	-.9		1	0
5214.0	5218.0	C	8.9	332	.9	15	177	10.9	10.2	.9	1.7	-.6		1	0
5216.0	5220.0	C	7.5	326	.9	14	175	10.9	10.2	.6	1.4	-.6		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5218.0	5222.0	C	18.5	151	.9	14	175	10.9	10.2	-2.3			-.9	1	3
5224.0	5228.0	C	15.7	95	.8	12	170	11.2	10.3	-1.8			1.1	1	3
5226.0	5230.0	D	4.2	295	.9	7	166	11.1	10.3		.7		.1	1	2
5228.0	5232.0	B	4.7	285	.9	5	163	11.1	10.2	.9	.6	-.7		1	0
5230.0	5234.0	B	2.5	290	.9	4	160	11.0	10.2	.5	.5	-.3		1	0
5232.0	5236.0	A	1.8	229	.9	3	156	10.9	10.1	.3	.1	-.2		1	0
5234.0	5238.0	A	2.4	140	1.0	0	151	10.8	10.1	-.4	-.3	.2		1	0
5236.0	5240.0	A	2.2	126	1.0	356	145	10.7	10.1	-.5	-.2	.2		1	0
5238.0	5242.0	A	1.9	202	1.0	354	137	10.6	10.1	.1	.0	-.2		1	0
5240.0	5244.0	A	2.3	192	1.0	351	130	10.4	10.1	.1	-.1	-.2		1	0
5242.0	5246.0	A	3.6	218	1.0	348	125	10.4	10.1	.5	.2	-.5		1	0
5244.0	5248.0	A	17.0	123	1.0	347	121	10.3	10.1	-2.5	-3.0	.0		1	0
5248.0	5252.0	C	2.4	300	.9	344	113	10.1	10.0	.0	.5	.2		1	0
5250.0	5254.0	A	1.9	291	.9	342	109	10.1	10.0	.0	.4	.1		1	0
5252.0	5256.0	A	1.8	307	.9	340	104	10.1	10.0	.0	.4	.2		1	0
5254.0	5258.0	A	.7	129	.9	338	99	10.1	10.0	-.4	.0	.1		1	0
5256.0	5260.0	A	2.1	169	.8	336	94	10.1	10.0	-.5	.0	-.2		1	0
5258.0	5262.0	A	1.6	227	.8	333	89	10.1	10.0	-.2	.3	-.1		1	0
5260.0	5264.0	A	1.7	252	.8	330	84	10.1	10.0	-.3	.3	.1		1	0
5266.0	5270.0	B	8.1	189	.7	324	71	10.2	10.0	.9	.7	-1.1		1	0
5268.0	5272.0	A	1.0	358	.7	322	67	10.3	10.1	-.4	.0	.3		1	0
5270.0	5274.0	A	1.1	131	.7	319	64	10.3	10.1	.0	.0	-.1		1	0
5272.0	5276.0	B	1.1	106	.7	316	60	10.3	10.1	.0			-.1	1	3
5274.0	5278.0	A	1.1	216	.7	313	56	10.4	10.1	.1	.2	.1		1	0
5276.0	5280.0	A	1.8	182	.7	309	52	10.4	10.1	.3	.2	-.1		1	0
5278.0	5282.0	B	16.5	119	.6	305	48	10.4	10.1	.9	-1.0			1	4
5280.0	5284.0	B	14.1	147	.6	301	45	10.4	10.1	1.1	.6	-2.4		1	0
5282.0	5286.0	C	12.5	162	.6	296	42	10.5	10.1	1.3	1.2	-1.8		1	0
5284.0	5288.0	C	6.0	169	.6	291	38	10.5	10.1		.7		.0	1	2
5286.0	5290.0	D	7.5	154	.6	286	35	10.5	10.1		.3		-.5	1	2
5288.0	5292.0	A	6.9	146	.5	280	31	10.5	10.1	1.5	.6	-1.0		1	0
5290.0	5294.0	A	6.5	140	.5	274	25	10.5	10.1	1.2	.5	-1.0		1	0
5292.0	5296.0	A	2.8	152	.5	268	21	10.4	10.1	.4	.4	-.3		1	0
5294.0	5298.0	A	2.7	176	.4	263	18	10.4	10.1	.3	.5	-.1		1	0
5296.0	5300.0	A	2.8	170	.4	259	16	10.3	10.0	.3	.5	-.1		1	0
5298.0	5302.0	A	3.0	154	.4	256	14	10.3	10.0	.8	.4	-.3		1	0
5300.0	5304.0	A	2.0	209	.4	255	13	10.2	9.9	.1	.4	.1		1	0
5302.0	5306.0	A	2.0	226	.3	251	12	10.1	9.8	.0	.3	.2		1	0
5304.0	5308.0	A	2.1	258	.3	247	10	10.0	9.7	-.1	.2	.4		1	0
5306.0	5310.0	A	4.6	214	.3	241	7	9.9	9.6	.3	.7	.4		1	0
5308.0	5312.0	C	21.8	111	.3	238	3	9.8	9.5	2.4	1.2			1	4
5310.0	5314.0	A	6.1	327	.3	227	358	9.8	9.5	.0	-.9	.6		1	0
5312.0	5316.0	C	11.6	339	.3	214	352	9.8	9.5	-.4	-1.9	.5		1	0
5314.0	5318.0	B	1.7	232	.3	199	346	9.8	9.5	-.4	.2	.3		1	0
5316.0	5320.0	C	1.8	215	.3	188	340	9.8	9.5	-.1	.2	.3		1	0
5318.0	5322.0	D	3.1	170	.4	182	334	9.8	9.5	.0	.6	.2		1	0
5320.0	5324.0	D	2.1	194	.4	172	328	9.9	9.6	-.3	.3	.3		1	0
5322.0	5326.0	B	9.1	256	.4	164	323	9.9	9.6	-.8	-.6	1.4		1	0
5324.0	5328.0	A	.9	280	.4	156	318	10.0	9.7	.0	-.1	.1		1	0
5326.0	5330.0	A	.8	226	.4	147	313	10.1	9.8	.1	.1	.2		1	0
5328.0	5332.0	A	1.7	170	.5	141	309	10.1	9.9	.1	.3	.2		1	0
5330.0	5334.0	B	1.8	314	.5	136	305	10.2	9.9	-.1	-.2	.0		1	0
5332.0	5336.0	A	4.0	198	.5	134	299	10.2	9.9	.0	.2	.7		1	0
5334.0	5338.0	A	4.0	188	.6	130	293	10.3	10.0	.0	.3	.7		1	0
5336.0	5340.0	A	1.0	77	.6	127	289	10.3	10.1	.0	.2	-.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5338.0	5342.0	A	1.8	292	.6	122	285	10.4	10.2	.1	-.2	.0		1	0
5340.0	5344.0	A	2.5	108	.6	119	282	10.4	10.2	.2	.6	.1		1	0
5342.0	5346.0	A	3.5	118	.6	114	280	10.4	10.2	.2	.7	.2		1	0
5344.0	5348.0	A	3.3	121	.6	112	279	10.4	10.2	.2	.7	.3		1	0
5346.0	5350.0	A	.3	235	.6	109	277	10.4	10.2	.1	.1	.1		1	0
5348.0	5352.0	B	1.1	168	.6	107	274	10.4	10.3	-.1	.2	.2		1	0
5350.0	5354.0	A	.1	266	.7	105	272	10.5	10.3	.0	.1	.0		1	0
5352.0	5356.0	A	.8	216	.7	102	271	10.5	10.4	-.1	.0	.1		1	0
5354.0	5358.0	A	1.3	194	.7	99	269	10.5	10.4	-.1	.1	.3		1	0
5356.0	5360.0	A	1.5	195	.7	98	269	10.5	10.4	-.2	.0	.3		1	0
5358.0	5362.0	A	1.2	177	.7	98	268	10.5	10.5	-.1	.1	.2		1	0
5360.0	5364.0	B	.6	220	.8	98	268	10.5	10.5	.0	.1	.1		1	0
5362.0	5366.0	B	.1	117	.8	99	270	10.5	10.5	.1	.2	.0		1	0
5364.0	5368.0	B	.3	144	.8	101	272	10.5	10.6	.0	.2	.1		1	0
5366.0	5370.0	A	1.1	208	.7	106	275	10.5	10.6	-.1	.1	.2		1	0
5368.0	5372.0	A	3.9	173	.7	111	279	10.5	10.7	-.2	.3	.7		1	0
5370.0	5374.0	A	4.8	171	.7	115	283	10.6	10.7	-.2	.5	.9		1	0
5372.0	5376.0	A	12.3	192	.7	117	285	10.6	10.7	-.7	.3	2.4		1	0
5374.0	5378.0	A	3.6	41	.7	119	285	10.7	10.7	.1	.4	-.6		1	0
5376.0	5380.0	B	2.2	46	.7	119	284	10.7	11.0	-.1	.4	-.3		1	0
5378.0	5382.0	A	8.2	194	.7	119	283	10.8	11.1	-.9	.1	1.6		1	0
5380.0	5384.0	A	4.2	191	.7	117	281	10.8	11.1	-.4	.1	.9		1	0
5382.0	5386.0	A	2.7	198	.7	116	281	10.9	11.1	-.3	.1	.6		1	0
5384.0	5388.0	B	1.5	282	.7	114	281	10.9	11.2		-.1		-.1	1	2
5386.0	5390.0	B	3.2	205	.8	109	278	10.9	11.3		.0		.3	1	2
5388.0	5392.0	B	3.6	193	.8	105	274	10.8	11.2		.0		.4	1	2
5390.0	5394.0	A	5.9	200	.8	104	274	10.7	11.1	-.7	-.2	1.1		1	0
5392.0	5396.0	A	6.2	199	.8	103	273	10.6	11.2	-.7	-.2	1.2		1	0
5394.0	5398.0	A	10.3	132	.8	98	268	10.5	11.1	-.1	1.5	1.4		1	0
5396.0	5400.0	A	6.5	169	.8	94	264	10.4	10.9	-.6	.3	1.3		1	0
5398.0	5402.0	C	16.3	118	.9	91	260	10.3	10.8	.3			2.3	1	3
5402.0	5406.0	A	13.7	114	.8	89	259	10.1	10.7	-.3	2.2	1.5		1	0
5404.0	5408.0	A	7.0	148	.8	88	259	10.0	10.6	.4	.6	1.2		1	0
5406.0	5410.0	A	8.0	356	.8	87	259	9.8	10.4	.4	.3	-1.4		1	0
5408.0	5412.0	A	7.8	316	.8	87	261	9.7	10.4	-.4	-.6	-1.1		1	0
5410.0	5414.0	B	6.0	292	.8	89	263	9.7	10.6		-.8		-.6	1	2
5412.0	5416.0	B	5.3	217	.8	93	267	9.7	11.0	-1.0	-.4	.8		1	0
5416.0	5420.0	D	8.6	99	.8	91	274	9.8	10.4	.7			.9	1	3
5418.0	5422.0	C	7.2	224	.8	93	277	9.7	10.7	.1	-.6	1.1		1	0
5420.0	5424.0	D	25.2	262	.8	95	278	9.7	11.4	-2.8			-1.4	1	3
5426.0	5430.0	B	1.8	229	.7	95	293	9.8	9.8	.1	.0	.2		1	0
5428.0	5432.0	B	1.6	230	.8	94	292	9.8	9.7	.1	.0	.2		1	0
5430.0	5434.0	D	8.1	50	.8	92	290	9.8	9.7	1.0	.8			1	4
5432.0	5436.0	A	4.7	187	.8	88	288	9.8	9.6	.4	.3	.7		1	0
5434.0	5438.0	B	8.7	103	.8	85	285	9.8	9.6	.9			.8	1	3
5436.0	5440.0	C	20.0	125	.8	82	281	9.8	9.6	1.0			2.4	1	3
5438.0	5442.0	C	2.1	102	.8	82	277	9.8	9.6	.1	.5	.0		1	0
5440.0	5444.0	D	1.7	76	.8	80	272	9.8	9.6	.3	.4			1	4
5442.0	5446.0	D	1.9	272	.9	78	266	9.8	9.6	.3	-.2	.0		1	0
5444.0	5448.0	B	6.8	236	.9	76	261	9.9	9.7	.2	-.9	.5		1	0
5446.0	5450.0	A	1.8	222	.9	74	255	9.9	9.7	.3	-.1	.2		1	0
5448.0	5452.0	A	1.5	201	.9	71	249	10.0	9.8	.1	.0	.2		1	0
5450.0	5454.0	A	1.7	194	1.0	70	244	10.0	9.8	.0	.0	.2		1	0
5452.0	5456.0	A	1.2	38	1.0	68	239	10.1	9.9	.1	.4	-.1		1	0
5454.0	5458.0	A	2.9	336	1.0	65	235	10.2	9.9	.5	.3	-.5		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5456.0	5460.0	B	2.6	235	1.1	62	231	10.3	10.0	.0	-.3	.0		1	0
5458.0	5462.0	C	4.3	176	1.1	60	227	10.3	10.0	-.8	-.3	.6		1	0
5460.0	5464.0	B	2.7	121	1.1	58	225	10.4	10.0	-.4	.3	.5		1	0
5462.0	5466.0	C	1.9	111	1.1	57	223	10.4	10.1	-.2	.3	.4		1	0
5464.0	5468.0	A	7.1	233	1.2	55	221	10.4	10.1	.3	-1.1	-.2		1	0
5466.0	5470.0	A	4.3	225	1.2	53	218	10.4	10.0	-.4	-.6	.0		1	0
5468.0	5472.0	B	7.0	204	1.2	51	216	10.4	10.0	-.4	-1.0	.3		1	0
5470.0	5474.0	A	5.0	115	1.3	48	213	10.3	10.0	-.7	.3	.9		1	0
5472.0	5476.0	A	4.0	130	1.3	47	210	10.3	10.0	-.6	.1	.7		1	0
5474.0	5478.0	A	1.4	350	1.3	45	207	10.2	9.9	.3	.4	-.1		1	0
5476.0	5480.0	A	4.1	350	1.3	43	204	10.2	9.9	.6	.8	-.3		1	0
5478.0	5482.0	B	.9	52	1.4	40	200	10.1	9.8	.1	.4	.2		1	0
5480.0	5484.0	A	1.3	187	1.4	38	196	10.1	9.8	.0	.0	.1		1	0
5482.0	5486.0	A	1.6	204	1.4	38	194	10.1	9.8	-.1	.0	.0		1	0
5484.0	5488.0	C	8.2	108	1.4	38	194	10.0	9.7	-.1	.1	1.5		1	0
5486.0	5490.0	B	1.1	236	1.4	38	194	10.0	9.7	.2	.1	.0		1	0
5488.0	5492.0	A	1.7	85	1.4	39	195	10.0	9.6	.1	.3	.4		1	0
5490.0	5494.0	A	1.8	83	1.3	38	197	9.9	9.6	.0	.3	.4		1	0
5492.0	5496.0	B	1.1	81	1.3	38	199	9.9	9.6	.1	.3	.2		1	0
5494.0	5498.0	C	.4	30	1.3	37	200	9.9	9.6	.2	.3	.1		1	0
5496.0	5500.0	B	.6	28	1.3	36	200	9.9	9.6	-.1	.3	.1		1	0
5498.0	5502.0	B	1.4	17	1.3	36	200	9.9	9.6	-.1	.5	.1		1	0
5500.0	5504.0	B	2.1	3	1.3	35	198	9.9	9.6	.0	.6	.0		1	0
5502.0	5506.0	A	5.0	71	1.3	34	197	9.9	9.6	.4	.7	.8		1	0
5504.0	5508.0	A	3.9	52	1.4	33	194	9.9	9.6	.5	.8	.5		1	0
5506.0	5510.0	A	3.8	217	1.4	32	192	10.0	9.6	.1	-.4	-.2		1	0
5508.0	5512.0	A	5.7	214	1.4	31	190	10.0	9.6	.0	-.7	-.3		1	0
5510.0	5514.0	A	2.8	193	1.5	29	187	10.0	9.6	.1	-.3	.0		1	0
5512.0	5516.0	B	4.8	160	1.5	28	184	10.1	9.7	-.5	-.6	.2		1	0
5514.0	5518.0	B	1.9	192	1.5	27	182	10.1	9.7	-.1	-.1	.1		1	0
5516.0	5520.0	A	1.2	149	1.5	26	180	10.2	9.8	-.1	.1	.2		1	0
5518.0	5522.0	A	1.6	114	1.5	24	177	10.3	9.8	-.1	.1	.4		1	0
5520.0	5524.0	A	1.2	141	1.5	22	173	10.3	9.9	.0	.1	.2		1	0
5522.0	5526.0	B	1.2	251	1.5	21	170	10.4	9.9	.2	.2	-.1		1	0
5524.0	5528.0	A	1.5	219	1.5	20	167	10.4	10.0	.2	.1	-.1		1	0
5528.0	5532.0	A	1.2	229	1.6	19	162	10.6	10.2	.0	.1	.0		1	0
5530.0	5534.0	A	1.4	142	1.6	19	160	10.7	10.3	-.2	.0	.3		1	0
5532.0	5536.0	A	1.6	234	1.6	19	157	10.7	10.3	.0	.2	-.1		1	0
5534.0	5538.0	C	3.6	218	1.6	19	154	10.7	10.2		-.1		-.2	1	2
5536.0	5540.0	D	19.8	132	1.6	18	150	10.7	10.2	-2.4			-1.1	1	3
5538.0	5542.0	B	18.8	23	1.6	18	146	10.7	10.1	-.5	2.2			1	4
5540.0	5544.0	A	1.6	183	1.6	17	142	10.6	10.0	.0	-.1	.0		1	0
5542.0	5546.0	A	1.8	69	1.5	16	136	10.5	10.0	-.3	.0	.5		1	0
5544.0	5548.0	A	2.2	52	1.5	15	130	10.4	9.9	-.3	.0	.6		1	0
5546.0	5550.0	A	3.1	28	1.5	13	124	10.3	9.9	-.3	.2	.8		1	0
5548.0	5552.0	C	28.8	295	1.5	12	119	10.2	9.8	2.9			2.7	1	3
5550.0	5554.0	D	29.6	292	1.4	10	115	10.1	9.8	3.0			2.9	1	3
5552.0	5556.0	D	19.9	20	1.4	8	112	10.1	9.8	-1.8	.2			1	4
5554.0	5558.0	A	6.0	60	1.4	6	109	10.1	9.9	-.4	-.6	1.0		1	0
5556.0	5560.0	B	1.9	354	1.4	6	107	10.1	9.9	.1	.2	.5		1	0
5558.0	5562.0	B	3.8	207	1.4	6	105	10.1	9.9	.4	.2	-.4		1	0
5562.0	5566.0	A	.5	356	1.4	5	102	10.0	9.9	-.3	.1	.3		1	0
5564.0	5568.0	A	.4	89	1.4	4	100	10.0	9.9	-.2	.0	.3		1	0
5566.0	5570.0	A	.8	333	1.4	2	97	10.0	9.9	.0	.1	.3		1	0
5568.0	5572.0	A	1.2	257	1.4	0	92	10.0	9.9	.1	.2	.2		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5570.0	5574.0	A	2.1	222	1.3	359	87	9.9	9.8	.2	.2	.0		1	0
5572.0	5576.0	C	1.9	47	1.2	357	81	9.9	9.8	-.2	-.3	.4		1	0
5574.0	5578.0	C	1.7	44	1.1	355	76	9.9	9.8	-.1	-.3	.3		1	0
5576.0	5580.0	B	2.8	53	1.1	355	71	9.9	9.7	-.4			-.1	1	3
5578.0	5582.0	A	2.1	277	1.0	354	66	9.9	9.7	-.4	.3	.3		1	0
5580.0	5584.0	A	2.1	175	1.0	352	62	10.0	9.7	.2	.1	-.2		1	0
5582.0	5586.0	C	1.8	160	.9	351	59	10.0	9.8	.1	.0	-.1		1	0
5584.0	5588.0	C	3.1	336	.9	352	55	10.1	9.8	-.4	-.2	.7		1	0
5586.0	5590.0	A	1.6	340	.8	351	52	10.2	9.9	-.4	-.2	.4		1	0
5588.0	5592.0	C	2.2	20	.8	351	49	10.3	9.9	-.4	-.4	.3		1	0
5590.0	5594.0	D	2.0	46	.7	351	46	10.4	10.0	-.2	-.4	.1		1	0
5592.0	5596.0	A	1.1	88	.7	350	43	10.5	10.1	.1	-.2	.0		1	0
5594.0	5598.0	C	7.0	64	.7	350	41	10.6	10.1	-.1	-1.3	-.4		1	0
5596.0	5600.0	D	5.3	118	.7	352	39	10.7	10.2	.6	-.3	-.8		1	0
5598.0	5602.0	D	2.0	155	.7	354	37	10.8	10.3	.6	.1	-.2		1	0
5600.0	5604.0	C	3.9	63	.7	356	36	10.9	10.4	-.1	-.8	-.2		1	0
5602.0	5606.0	A	4.0	67	.7	357	35	11.0	10.5	-.3	-.8	-.3		1	0
5604.0	5608.0	A	3.3	68	.7	359	34	11.1	10.6	-.2	-.6	-.3		1	0
5606.0	5610.0	A	.9	164	.7	360	32	11.2	10.7	-.1	.0	-.1		1	0
5608.0	5612.0	A	.8	181	.7	1	28	11.3	10.7	-.1	.0	.0		1	0
5610.0	5614.0	A	1.4	50	.7	4	25	11.3	10.7	-.2	-.4	-.1		1	0
5612.0	5616.0	B	3.5	34	.7	6	24	11.4	10.7	-.4	-.8	-.1		1	0
5614.0	5618.0	B	3.3	336	.7	4	25	11.3	10.7	-.4	-.5	.5		1	0
5616.0	5620.0	B	13.6	122	.7	1	28	11.1	10.5		.1		-1.2	1	2
5618.0	5622.0	B	5.4	159	.7	0	33	10.9	10.3	-.2	.5	-.7		1	0
5620.0	5624.0	B	26.7	294	.8	359	34	10.9	10.2	-2.1	.9			1	4
5622.0	5626.0	B	4.5	28	.8	358	35	10.9	10.2	-.3	.2			1	4
5624.0	5628.0	B	2.7	205	.8	357	36	10.9	10.0	.2	.4			1	4
5626.0	5630.0	A	6.5	188	.7	357	33	10.1	9.8	.7	.9	-.4		1	0
5628.0	5632.0	A	3.6	152	.6	356	29	10.0	9.7	.7	.2	-.5		1	0
5630.0	5634.0	A	2.7	159	.6	355	25	9.9	9.7	.2	.2	-.3		1	0
5632.0	5636.0	A	.9	170	.5	355	20	9.9	9.6	.0	.1	.0		1	0
5634.0	5638.0	C	.5	6	.5	355	17	9.8	9.6	-.3	-.2	.0		1	0
5636.0	5640.0	C	.8	32	.4	357	12	9.8	9.6	-.2	-.2	.0		1	0
5638.0	5642.0	B	1.2	126	.4	359	8	9.8	9.6	.1	.0	-.2		1	0
5640.0	5644.0	C	1.1	130	.3	14	1	9.8	9.6	.2	.1	-.2		1	0
5642.0	5646.0	B	.3	89	.3	43	355	9.8	9.6	.1	.0	-.1		1	0
5644.0	5648.0	A	1.0	17	.3	43	349	9.8	9.7	.1	-.2	-.1		1	0
5646.0	5650.0	C	11.7	261	.3	43	344	9.9	9.7	-1.1	-.2			1	4
5648.0	5652.0	D	12.7	258	.3	44	340	9.9	9.8	-1.2	-.3			1	4
5650.0	5654.0	A	6.4	22	.3	48	336	10.0	9.8	.1	-.8	-.9		1	0
5652.0	5656.0	A	4.2	317	.4	52	333	10.0	9.8	.1	-.7	.1		1	0
5654.0	5658.0	B	7.3	205	.4	56	329	10.0	9.9	.4	.7	1.0		1	0
5656.0	5660.0	B	10.9	55	.5	58	326	10.1	9.9	.1	.0	-2.0		1	0
5658.0	5662.0	B	1.6	150	.5	59	320	10.1	9.9	.2	.3	.0		1	0
5660.0	5664.0	A	1.1	55	.5	61	315	10.1	9.9	.2	.1	-.3		1	0
5662.0	5666.0	A	.8	20	.6	62	311	10.1	9.9	.1	.0	-.2		1	0
5664.0	5668.0	A	1.4	206	.6	64	309	10.1	9.9	.0	.1	.1		1	0
5666.0	5670.0	A	1.9	98	.5	63	311	10.0	9.8	.3	.3	-.3		1	0
5668.0	5672.0	A	3.1	96	.5	61	318	10.0	9.8	.5	.4	-.4		1	0
5670.0	5674.0	A	2.7	106	.4	58	324	9.9	9.7	.5	.4	-.4		1	0
5672.0	5676.0	A	2.6	108	.4	54	329	9.9	9.6	.4	.3	-.3		1	0
5674.0	5678.0	B	2.3	244	.3	51	332	9.8	9.6	-.2	.0	.3		1	0
5676.0	5680.0	B	3.2	265	.3	54	332	9.8	9.6	-.2	-.2	.4		1	0
5678.0	5682.0	C	21.0	93	.3	54	329	9.8	9.6	2.6			-.5	1	3

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5680.0	5684.0	C	2.4	73	.3	57	326	9.8	9.5	.2	.1	-.4		1	0
5682.0	5686.0	A	2.8	120	.4	60	323	9.8	9.5	-.1	.5	-.2		1	0
5684.0	5688.0	A	9.4	164	.4	64	319	9.8	9.5	-.1	1.5	.6		1	0
5686.0	5690.0	A	10.6	165	.4	68	314	9.8	9.5	.3	1.6	.9		1	0
5688.0	5692.0	A	.2	134	.4	71	308	9.8	9.5	.3	.1	-.1		1	0
5690.0	5694.0	A	1.5	236	.5	69	302	9.8	9.6	-.5	-.1	.2		1	0
5692.0	5696.0	A	3.1	307	.5	71	297	9.8	9.6	-.3	-.5	-.2		1	0
5694.0	5698.0	A	3.7	292	.5	70	294	9.8	9.6	-.7	-.6	.0		1	0
5696.0	5700.0	A	5.2	120	.5	70	289	9.8	9.6	.9	.9	.1		1	0
5698.0	5702.0	C	3.1	1	.6	70	285	9.8	9.6		.0		-.3	1	2
5700.0	5704.0	C	5.3	220	.6	68	280	9.8	9.6		-.4		.2	1	2
5702.0	5706.0	D	7.4	180	.6	67	277	9.8	9.6	-.5			.7	1	3
5704.0	5708.0	B	7.1	171	.6	66	274	9.8	9.6	-.4			.7	1	3
5706.0	5710.0	B	4.2	244	.6	67	272	9.8	9.6	-.2	-.5	.3		1	0
5708.0	5712.0	A	4.1	266	.6	65	269	9.8	9.6	.0	-.6	.0		1	0
5710.0	5714.0	A	1.4	293	.7	61	267	9.8	9.6	.0	-.1	-.2		1	0
5712.0	5716.0	B	7.7	257	.7	59	266	9.9	9.8		-1.2		-.5	1	2
5714.0	5718.0	A	7.0	213	.7	59	267	9.8	9.7	-1.4	-.6	.9		1	0
5716.0	5720.0	A	8.1	22	.6	62	275	9.8	9.6	.5	.5	-1.4		1	0
5718.0	5722.0	B	6.2	354	.6	68	283	9.7	9.5	.8	-.3	-1.0		1	0
5720.0	5724.0	D	4.9	191	.6	72	287	9.7	9.5		.2		.5	1	2
5722.0	5726.0	D	1.8	141	.5	73	289	9.7	9.4		.3		.2	1	2
5724.0	5728.0	D	13.9	30	.5	73	290	9.7	9.4	2.4	.4	-2.4		1	0
5726.0	5730.0	D	3.6	32	.5	72	291	9.7	9.4	-.3	.2	-.6		1	0
5728.0	5732.0	D	6.6	205	.5	72	288	9.7	9.4	.0	-.1	1.0		1	0
5730.0	5734.0	D	4.7	357	.5	71	284	9.7	9.4	-.2	-.2	-.8		1	0
5732.0	5736.0	D	3.1	170	.5	71	280	9.7	9.4	.0	.3	.4		1	0
5734.0	5738.0	C	3.9	162	.5	71	277	9.7	9.4	.1	.4	.5		1	0
5736.0	5740.0	B	1.9	90	.6	69	273	9.7	9.4	.3	.4	-.1		1	0
5738.0	5742.0	B	.5	104	.6	68	270	9.7	9.4	.2	.2	.0		1	0
5740.0	5744.0	C	1.5	212	.6	66	266	9.7	9.4	.1	.0	.2		1	0
5742.0	5746.0	C	.4	63	.6	64	263	9.7	9.4	.2	.2	-.1		1	0
5744.0	5748.0	B	.7	330	.7	63	258	9.7	9.4	.2	.1	-.1		1	0
5746.0	5750.0	B	1.0	312	.7	62	254	9.8	9.5	.2	.0	-.2		1	0
5748.0	5752.0	C	2.1	293	.7	61	250	9.8	9.5	.1	-.1	-.3		1	0
5750.0	5754.0	D	2.3	315	.7	58	247	9.8	9.5	.1	.0	-.4		1	0
5752.0	5756.0	D	1.6	340	.7	55	243	9.8	9.5	.0	.2	-.3		1	0
5754.0	5758.0	D	.6	321	.8	53	239	9.8	9.5	.1	.1	-.1		1	0
5756.0	5760.0	D	.9	329	.8	51	236	9.8	9.5	.4	.1	-.2		1	0
5758.0	5762.0	D	.6	158	.8	49	233	9.8	9.5	.2	.1	.1		1	0
5760.0	5764.0	D	2.2	139	.8	46	229	9.9	9.6	-.1	.1	.4		1	0
5762.0	5766.0	C	2.9	73	.9	43	225	9.9	9.6	.2	.6	.2		1	0
5764.0	5768.0	B	2.6	50	.9	41	222	10.0	9.6	.6	.6	.1		1	0
5770.0	5774.0	A	1.9	221	.9	35	212	10.1	9.8	.0	-.2	.0		1	0
5772.0	5776.0	A	2.2	216	1.0	33	208	10.1	9.8	.0	-.2	.0		1	0
5774.0	5778.0	A	7.6	205	1.1	31	204	10.1	9.8	-.4	-1.2	.0		1	0
5776.0	5780.0	A	1.8	74	1.1	31	202	10.1	9.8	.1	.4	.3		1	0
5778.0	5782.0	A	3.6	70	1.1	30	201	10.0	9.8	.2	.6	.5		1	0
5780.0	5784.0	A	3.0	98	1.1	29	199	10.0	9.7	.0	.3	.5		1	0
5782.0	5786.0	A	1.7	138	1.1	29	196	9.9	9.7	.0	.0	.3		1	0
5784.0	5788.0	A	3.0	125	1.1	28	195	9.9	9.6	.0	.0	.5		1	0
5786.0	5790.0	C	11.2	238	1.1	28	194	9.9	9.6	.0	-1.2			1	4
5788.0	5792.0	D	17.9	230	1.1	27	194	9.8	9.6	-.3			-2.1	1	3
5790.0	5794.0	A	4.3	30	1.1	26	194	9.7	9.5	.6	.9	.2		1	0
5792.0	5796.0	A	.8	289	1.1	26	195	9.7	9.4	.1	.2	-.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5794.0	5798.0	A	1.9	97	1.0	27	196	9.6	9.3	-.1	.2	.3		1	0
5796.0	5800.0	A	3.1	80	1.0	27	196	9.5	9.2	-.1	.4	.5		1	0
5798.0	5802.0	A	8.8	70	1.0	27	196	9.5	9.2	-.1	1.0	1.2		1	0
5800.0	5804.0	A	9.0	47	1.0	27	195	9.4	9.1	.1	1.4	.8		1	0
5802.0	5806.0	C	5.9	119	1.0	26	196	9.2	8.9	.2	-.1	.9		1	0
5804.0	5808.0	D	4.1	298	1.0	26	198	9.2	8.8	.4	.3			1	4
5806.0	5810.0	A	8.5	69	.9	25	200	9.1	8.8	.6	1.0	1.0		1	0
5808.0	5812.0	A	4.2	62	.9	24	203	9.2	8.8	-.4	.7	.4		1	0
5810.0	5814.0	B	2.5	0	.9	29	205	9.1	8.9	-.2	.5	-.2		1	0
5812.0	5816.0	C	3.8	78	.9	31	205	9.2	9.0	.1	.5	.5		1	0
5814.0	5818.0	C	10.1	71	.9	28	204	9.4	9.0	.1			1.2	1	3
5816.0	5820.0	C	12.6	100	.9	30	201	9.2	8.9	-.5	.5	2.0		1	0
5818.0	5822.0	B	9.6	119	.9	30	200	9.2	8.7	-.5	-.1	1.5		1	0
5820.0	5824.0	D	13.5	138	.8	27	200	9.1	8.7		-.9		.5	1	2
5824.0	5828.0	C	6.5	73	1.0	22	201	9.2	8.7	.2	.8	.8		1	0
5826.0	5830.0	B	7.9	85	1.0	21	197	9.1	8.8	-.3	.6	1.1		1	0
5828.0	5832.0	D	21.9	359	.9	18	193	9.1	8.9	2.3			1.4	1	3
5830.0	5834.0	B	17.2	235	1.0	15	190	9.1	8.8	-.2	-1.8	-1.9		1	0
5832.0	5836.0	D	16.8	170	1.0	21	194	9.0	8.8	-1.7			-.6	1	3
5834.0	5838.0	C	20.8	64	.8	31	200	9.1	8.9	-.4	2.6	2.4		1	0
5836.0	5840.0	B	13.4	102	.8	35	204	9.1	8.9	-.8	.6			1	4
5838.0	5842.0	B	5.2	43	.8	33	206	9.1	8.8		.9		.6	1	2
5840.0	5844.0	B	7.2	80	.7	33	209	9.1	8.8	-.4	.8	.9		1	0
5842.0	5846.0	C	23.0	128	.7	31	213	9.1	8.8		-.3		1.7	1	2
5844.0	5848.0	C	6.0	38	.7	29	213	9.0	8.8	1.1	1.0	.1		1	0
5846.0	5850.0	D	9.2	119	.7	32	209	9.0	8.8		.1		.8	1	2
5848.0	5852.0	C	22.2	328	.8	31	203	9.1	8.8	1.9	1.2	-1.6		1	0
5850.0	5854.0	B	11.1	328	.8	29	201	9.1	8.8	.8	1.2	-1.4		1	0
5852.0	5856.0	A	4.1	339	.8	31	203	9.1	8.9	.4	.6	-.4		1	0
5854.0	5858.0	C	31.0	115	.8	31	207	9.0	8.8		.4		2.8	1	2
5856.0	5860.0	B	20.5	141	.8	31	210	9.0	8.8	-2.1	-1.1			1	4
5858.0	5862.0	C	21.0	141	.8	31	208	9.0	8.8	-2.2	-1.2			1	4
5860.0	5864.0	C	2.4	50	.8	30	205	9.0	8.8	.2			.3	1	3
5862.0	5866.0	A	13.3	244	.8	30	204	9.0	8.8	.8	-1.5	-1.3		1	0
5864.0	5868.0	A	18.5	239	.8	30	204	9.0	8.8	-.3	-2.3	-1.7		1	0
5870.0	5874.0	C	2.9	246	.8	23	203	9.0	8.8	.0			-.2	1	3
5872.0	5876.0	B	11.2	298	.8	25	200	9.1	8.8	1.0			-.7	1	3
5874.0	5878.0	A	11.2	230	.8	31	201	9.0	8.8	-.5	-1.5	-.8		1	0
5876.0	5880.0	C	16.4	170	.7	42	216	9.0	8.8	-1.8			.1	1	3
5878.0	5882.0	D	3.6	104	.6	47	227	8.9	8.7		.4		.4	1	2
5880.0	5884.0	D	17.5	290	.6	51	231	8.9	8.7		-1.4		-1.9	1	2
5882.0	5886.0	D	39.3	309	.6	51	234	8.9	8.8	2.6	-1.8			1	4
5884.0	5888.0	D	23.4	185	.5	42	232	9.0	8.9	-2.7	-2.6			1	4
5886.0	5890.0	D	11.5	194	.5	39	229	9.0	8.8	-1.2			-.2	1	3
5888.0	5892.0	D	24.7	316	.6	45	228	9.1	8.8	2.0			-2.1	1	3
5890.0	5894.0	D	16.5	230	.7	42	221	9.1	8.8	-1.1			-1.5	1	3
5892.0	5896.0	C	15.9	125	.7	37	219	9.0	8.9	-1.1			1.4	1	3
5894.0	5898.0	A	16.9	100	.6	39	225	9.2	8.9	-.5	1.7	2.2		1	0
5896.0	5900.0	A	17.6	104	.6	41	227	9.3	9.1	-.4	1.7	2.4		1	0
5898.0	5902.0	A	3.5	88	.6	42	224	9.3	9.1	.2	.5	.4		1	0
5900.0	5904.0	A	5.1	175	.7	42	221	9.3	9.2	-.4	-.5	.6		1	0
5902.0	5906.0	A	7.3	176	.7	41	217	9.3	9.1	-.5	-.8	.8		1	0
5904.0	5908.0	B	20.9	199	.7	37	213	9.3	9.1	-2.1			-1.2	1	3
5906.0	5910.0	C	19.2	181	.8	34	213	9.2	9.0	-2.1			-.5	1	3
5908.0	5912.0	A	8.3	158	.8	34	214	9.1	8.9	-.8	-.6	1.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5910.0	5914.0	A	8.8	160	.8	33	211	9.1	8.9	-.7	-.8	1.1		1	0
5912.0	5916.0	A	15.7	168	.8	30	205	9.1	8.8	-1.4	-1.9	1.5		1	0
5914.0	5918.0	A	15.1	165	.8	27	206	9.1	8.8	-1.5	-1.7	1.5		1	0
5916.0	5920.0	A	12.2	173	.8	29	210	9.1	8.8	-1.3	-1.4	1.1		1	0
5918.0	5922.0	B	9.4	180	.8	31	212	9.3	8.9	-1.5	-1.2	.8		1	0
5920.0	5924.0	A	7.8	115	.8	32	210	9.4	8.9	-.7	.2	1.2		1	0
5922.0	5926.0	A	9.6	68	.8	28	206	9.4	8.9	.3	1.3	1.0		1	0
5924.0	5928.0	A	16.6	106	.9	25	203	9.2	8.9	-.4	.5	2.6		1	0
5926.0	5930.0	B	8.3	116	1.0	17	190	9.1	8.9	-.4	-.2	1.3		1	0
5928.0	5932.0	B	4.5	81	1.1	11	171	9.2	8.9	-.4	.2	.8		1	0
5930.0	5934.0	A	8.4	60	1.1	6	160	9.3	9.0	-.6	.4	1.4		1	0
5932.0	5936.0	C	9.6	71	1.1	3	156	9.5	9.0	-1.0	.0	1.6		1	0
5934.0	5938.0	D	17.6	33	1.1	3	153	9.7	9.0	-.4			2.1	1	3
5938.0	5942.0	D	15.4	118	1.2	4	153	9.5	9.0	-1.7			-.2	1	3
5940.0	5944.0	C	14.3	36	1.2	2	152	9.4	9.1	-1.4	1.3	2.2		1	0
5942.0	5946.0	B	15.7	248	1.3	2	152	9.4	9.1	1.5			-1.0	1	3
5944.0	5948.0	C	25.0	279	1.3	4	153	9.4	9.0		2.8		-.3	1	2
5946.0	5950.0	D	27.2	259	1.2	4	153	9.2	8.9	2.9	1.5			1	4
5948.0	5952.0	B	17.6	15	1.2	3	151	9.1	8.8	.1			2.2	1	3
5952.0	5956.0	D	33.3	245	1.2	4	150	9.1	8.8		.7		-2.5	1	2
5958.0	5962.0	D	20.6	328	1.2	1	146	9.1	8.8	1.7			1.9	1	3
5960.0	5964.0	C	16.8	340	1.2	0	144	9.1	8.8	1.0			1.8	1	3
5962.0	5966.0	D	27.9	202	1.2	358	137	9.1	8.9	1.1	-1.8			1	4
5964.0	5968.0	D	27.1	13	1.2	357	130	9.1	9.1	-1.0	2.3			1	4
5966.0	5970.0	D	20.2	15	1.1	356	126	9.2	9.1	-.9	1.4			1	4
5968.0	5972.0	D	15.3	78	1.1	350	122	9.2	9.0	-1.8	-1.7			1	4
5970.0	5974.0	C	24.6	48	1.1	349	118	9.4	8.8		-1.4		1.3	1	2
5972.0	5976.0	C	23.8	45	1.2	351	116	9.5	8.9		-1.3		1.3	1	2
5974.0	5978.0	B	8.0	29	1.2	352	115	9.5	9.0	-.2	.0	1.4		1	0
5976.0	5980.0	A	7.7	29	1.2	350	115	9.4	9.2	-.1	.0	1.4		1	0
5978.0	5982.0	B	7.8	21	1.2	349	115	9.5	9.2	-.8	.2	1.4		1	0
5980.0	5984.0	A	4.0	26	1.2	350	114	9.5	9.2	-.4	.1	.8		1	0
5982.0	5986.0	A	4.2	19	1.2	349	113	9.5	9.2	-.1	.2	.8		1	0
5984.0	5988.0	A	8.9	4	1.1	347	110	9.5	9.1	.0	.5	1.5		1	0
5986.0	5990.0	A	1.5	310	1.1	345	107	9.5	9.2	.1	.3	.2		1	0
5988.0	5992.0	A	1.7	296	1.1	344	103	9.5	9.2	.1	.4	.2		1	0
5990.0	5994.0	A	1.9	283	1.1	343	99	9.5	9.2	.1	.4	.2		1	0
5992.0	5996.0	A	3.9	255	1.1	342	97	9.5	9.2	.4	.7	-.1		1	0
5994.0	5998.0	A	4.6	248	1.1	341	95	9.5	9.2	.3	.8	-.2		1	0
5996.0	6000.0	D	7.0	211	1.1	340	93	9.5	9.1	.1	.6	-.8		1	0
5998.0	6002.0	B	3.8	203	1.1	339	92	9.4	9.1	.5	.3	-.4		1	0
6000.0	6004.0	A	9.1	278	1.1	338	90	9.4	9.0	.9	1.6	.4		1	0
6002.0	6006.0	A	9.1	277	1.1	339	89	9.3	9.0	.9	1.5	.4		1	0
6004.0	6008.0	A	1.5	200	1.1	339	88	9.3	9.0	.2	.1	.0		1	0
6006.0	6010.0	A	2.6	204	1.1	339	86	9.3	9.0	.3	.3	-.2		1	0
6008.0	6012.0	D	8.7	17	1.1	340	85	9.3	9.0	-1.0			.5	1	3
6010.0	6014.0	D	17.7	216	1.1	340	84	9.3	9.0		2.0		.0	1	2
6012.0	6016.0	B	14.0	172	1.1	340	84	9.3	9.0		.0		-1.0	1	2
6014.0	6018.0	A	14.0	174	1.1	341	83	9.3	9.0	1.3	.1	-2.1		1	0
6016.0	6020.0	A	5.9	170	1.1	343	83	9.3	9.1	1.0	.0	-.8		1	0
6018.0	6022.0	A	5.8	153	1.0	343	82	9.4	9.1	1.0	-.3	-.7		1	0
6020.0	6024.0	D	18.6	185	1.0	343	81	9.4	9.1	1.8	.8			1	4
6022.0	6026.0	D	14.5	350	1.0	342	79	9.4	9.0	-1.3	.0			1	4
6024.0	6028.0	D	4.8	302	1.0	339	76	9.4	9.0	-.3	.6	.7		1	0
6026.0	6030.0	D	.8	222	1.1	336	74	9.4	9.1	-.5	.1	.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6028.0	6032.0	A	1.7	275	1.1	334	70	9.4	9.1	.0	.3	.3		1	0
6030.0	6034.0	A	2.9	255	1.0	333	66	9.3	9.0	.0	.5	.2		1	0
6032.0	6036.0	A	3.9	234	1.0	333	63	9.3	8.9	.1	.6	.1		1	0
6034.0	6038.0	A	3.7	244	.9	333	61	9.3	8.9	.2	.6	.2		1	0
6036.0	6040.0	A	8.1	250	.9	334	59	9.3	9.0	.4	1.3	.4		1	0
6038.0	6042.0	A	8.7	248	.9	334	57	9.3	9.0	.5	1.4	.4		1	0
6040.0	6044.0	A	4.6	241	.9	335	56	9.3	9.0	.2	.7	.2		1	0
6042.0	6046.0	A	3.2	276	.8	336	54	9.3	9.0	.0	.4	.5		1	0
6044.0	6048.0	A	3.0	271	.7	334	52	9.4	9.0	.1	.4	.4		1	0
6046.0	6050.0	C	8.3	196	.7	332	50	9.4	9.0	.9			.2	1	3
6048.0	6052.0	B	14.6	231	.7	333	47	9.4	9.0	.1	2.4	.2		1	0
6050.0	6054.0	A	2.9	246	.7	333	45	9.4	9.0	.1	.4	.3		1	0
6052.0	6056.0	A	3.5	244	.6	334	43	9.4	9.1	.2	.5	.3		1	0
6054.0	6058.0	A	4.0	223	.6	336	40	9.4	9.1	.3	.6	.1		1	0
6056.0	6060.0	A	3.8	236	.6	338	37	9.4	9.1	.1	.5	.3		1	0
6058.0	6062.0	A	4.6	253	.6	336	33	9.3	9.1	.0	.5	.5		1	0
6060.0	6064.0	A	4.2	256	.6	336	28	9.3	9.1	.0	.4	.6		1	0
6062.0	6066.0	A	3.6	268	.5	335	22	9.3	9.1	-.1	.2	.6		1	0
6064.0	6068.0	A	3.8	268	.5	334	18	9.3	9.2	-.1	.2	.6		1	0
6066.0	6070.0	C	6.2	127	.4	333	15	9.2	9.1		.3		-.3	1	2
6068.0	6072.0	B	8.5	262	.4	332	13	9.2	8.9	-.2	.4	1.3		1	0
6070.0	6074.0	A	5.0	240	.4	330	11	9.1	8.9	.1	.5	.6		1	0
6072.0	6076.0	A	8.9	255	.4	340	9	9.1	8.9	.3	.5	1.3		1	0
6074.0	6078.0	A	6.2	271	.3	348	6	9.2	8.9	-.5	.0	1.0		1	0
6076.0	6080.0	A	6.6	270	.3	341	5	9.2	8.9	-1.0	.1	1.0		1	0
6078.0	6082.0	A	11.8	256	.2	341	4	9.2	9.0	-.5	.6	1.8		1	0
6080.0	6084.0	A	11.8	256	.3	341	3	9.2	9.0	-.5	.6	1.8		1	0
6082.0	6086.0	A	9.7	263	.3	354	2	9.3	9.0	-.9	.2	1.5		1	0
6084.0	6088.0	A	5.5	334	.2	360	2	9.3	9.0	-.5	-.8	.4		1	0
6086.0	6092.0	B	19.8	180	.3	360	0	9.3	9.0	.7	3.3	.0		1	0
6090.0	6094.0	D	20.6	130	.3	15	358	9.2	9.0	2.4			-.1	1	3
6092.0	6096.0	A	5.6	198	.3	21	357	9.2	9.0	.2	.8	.3		1	0
6094.0	6098.0	A	8.0	201	.3	20	358	9.1	8.9	.5	1.1	.5		1	0
6096.0	6100.0	A	8.7	207	.3	20	358	9.1	8.9	.3	1.2	.6		1	0
6098.0	6102.0	A	7.1	203	.3	20	357	9.2	8.9	.3	1.0	.5		1	0
6100.0	6104.0	A	4.9	193	.3	23	356	9.2	8.9	.3	.7	.2		1	0
6102.0	6106.0	A	4.7	197	.3	24	356	9.2	8.9	.2	.7	.2		1	0
6104.0	6108.0	A	3.9	208	.3	22	356	9.1	8.9	.1	.5	.3		1	0
6106.0	6110.0	A	5.4	230	.3	23	358	9.1	8.9	-.1	.5	.6		1	0
6108.0	6112.0	A	5.3	246	.4	24	1	9.1	8.9	-.2	.3	.7		1	0
6110.0	6114.0	A	2.4	272	.4	23	3	9.0	8.9	.1	.0	.3		1	0
6112.0	6116.0	A	3.6	208	.5	21	7	9.0	8.9	.2	.5	.2		1	0
6114.0	6118.0	A	5.9	213	.5	18	12	9.1	8.8	.2	.8	.3		1	0
6116.0	6120.0	A	6.3	231	.6	12	26	9.1	8.8	.2	.8	.4		1	0
6118.0	6122.0	C	8.1	266	.7	7	38	9.2	8.9	.8	.8	1.0		1	0
6120.0	6124.0	A	2.9	195	.7	6	42	9.2	8.9	.1	.3	-.1		1	0
6122.0	6126.0	A	3.3	223	.7	7	44	9.1	8.8	.2	.4	.1		1	0
6124.0	6128.0	A	4.3	240	.7	8	44	9.1	8.8	.2	.6	.3		1	0
6126.0	6130.0	A	3.6	226	.8	9	42	9.1	8.7	.3	.5	.1		1	0
6128.0	6132.0	A	3.3	193	.8	13	40	9.1	8.7	.1	.4	-.2		1	0
6130.0	6134.0	A	3.1	205	.8	16	38	9.1	8.7	.1	.4	-.1		1	0
6132.0	6136.0	A	4.5	266	.8	15	37	9.1	8.7	-.1	.4	.6		1	0
6134.0	6138.0	A	5.2	269	.8	16	34	9.1	8.6	-.1	.4	.7		1	0
6136.0	6140.0	A	3.0	220	.8	18	30	9.1	8.6	.1	.3	.1		1	0
6138.0	6142.0	A	6.5	73	.8	20	27	9.1	8.5	.1	-.8	-.7		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6140.0	6144.0	A	9.3	129	.7	24	25	9.2	8.5	.5	.3	-1.3		1	0
6142.0	6146.0	A	1.5	323	.7	27	25	9.2	8.5	-.1	-.2	.2		1	0
6144.0	6148.0	A	1.4	231	.6	31	26	9.1	8.5	-.1	.1	.1		1	0
6146.0	6150.0	A	3.7	203	.6	31	28	9.1	8.5	.0	.5	-.1		1	0
6148.0	6152.0	A	8.3	233	.6	28	29	9.1	8.6	-.1	1.1	.5		1	0
6150.0	6154.0	A	2.8	260	.7	29	30	9.1	8.5	-.1	.2	.3		1	0
6152.0	6156.0	A	1.8	287	.7	34	28	9.1	8.5	-.5	-.1	.2		1	0
6154.0	6158.0	B	3.1	163	.8	36	28	9.1	8.5	.2	.2	-.3		1	0
6156.0	6160.0	C	5.4	164	.8	34	28	9.1	8.5	.5			.0	1	3
6158.0	6162.0	A	6.0	143	.8	36	28	9.1	8.5	.4	.3	-.8		1	0
6160.0	6164.0	B	7.4	130	.8	37	27	9.0	8.6	.7	.1	-1.1		1	0
6162.0	6166.0	A	14.0	200	.8	35	26	9.0	8.6	.7	2.1	-.2		1	0
6164.0	6168.0	A	2.9	190	.9	34	26	9.0	8.6	.1	.3	-.1		1	0
6166.0	6170.0	A	6.2	204	.9	34	26	9.0	8.6	.4	.8	.0		1	0
6168.0	6172.0	A	4.9	192	.9	35	26	9.0	8.6	.4	.6	-.2		1	0
6170.0	6174.0	A	3.5	185	.9	33	26	9.0	8.6	.2	.4	-.2		1	0
6172.0	6176.0	A	2.6	225	.9	32	26	8.9	8.5	.0	.3	.1		1	0
6174.0	6178.0	A	5.4	265	.9	33	27	8.9	8.4	-.2	.3	.7		1	0
6176.0	6180.0	A	10.3	188	.9	30	30	8.9	8.4	1.0	1.3	-.6		1	0
6178.0	6182.0	A	9.1	185	1.0	26	34	8.8	8.4	1.1	1.1	-.6		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5752.0	5756.0	D	.9	312	1.3	16	160	9.8	9.5	.3	.3	.1		1	0
5754.0	5758.0	D	.5	218	1.3	15	157	9.8	9.5	.2	.1	.1		1	0
5756.0	5760.0	D	.6	356	1.3	14	154	9.8	9.5	-.1	.3	.2		1	0
5758.0	5762.0	D	.4	140	1.3	13	151	9.8	9.5	-.4	.1	.2		1	0
5760.0	5764.0	D	1.8	172	1.3	12	147	9.8	9.6	-.2	-.1	.0		1	0
5762.0	5766.0	B	2.5	85	1.3	11	143	9.9	9.6	-.2	-.1	.5		1	0
5764.0	5768.0	B	3.1	72	1.3	9	140	9.9	9.6	-.4	.0	.7		1	0
5770.0	5774.0	A	1.9	243	1.3	6	131	10.0	9.7	.2	.3	-.1		1	0
5772.0	5776.0	A	2.5	234	1.3	5	128	10.0	9.8	.3	.2	-.2		1	0
5774.0	5778.0	A	5.9	206	1.3	6	125	10.0	9.8	-.2	-.1	-.8		1	0
5776.0	5780.0	A	4.7	48	1.3	6	123	10.0	9.9	-.8	-.1	1.0		1	0
5778.0	5782.0	A	4.9	75	1.3	5	121	10.0	9.8	-1.0	-.5	.8		1	0
5780.0	5784.0	A	2.6	108	1.3	3	121	9.9	9.7	-.3	-.3	.3		1	0
5782.0	5786.0	A	2.1	133	1.3	3	120	9.9	9.6	-.2	-.3	.1		1	0
5784.0	5788.0	A	3.1	141	1.3	2	120	9.9	9.6	-.1	-.4	.0		1	0
5786.0	5790.0	B	11.2	65	1.3	1	120	9.8	9.6	-1.0	-1.0	1.8		1	0
5788.0	5792.0	D	26.8	208	1.3	1	121	9.8	9.5	2.2	-.2			1	4
5790.0	5794.0	A	11.6	356	1.3	0	121	9.7	9.5	.6	1.3	1.8		1	0
5792.0	5796.0	A	2.0	66	1.3	360	122	9.6	9.4	-.2	-.1	.4		1	0
5794.0	5798.0	A	2.4	103	1.3	360	121	9.6	9.3	-.1	-.3	.3		1	0
5796.0	5800.0	A	4.7	90	1.3	359	121	9.5	9.2	-.4	-.6	.6		1	0
5798.0	5802.0	A	7.0	86	1.2	358	120	9.5	9.2	-.6	-.9	.8		1	0
5800.0	5804.0	A	5.5	51	1.2	358	119	9.4	9.1	-.5	-.2	1.0		1	0
5802.0	5806.0	C	20.8	36	1.2	357	120	9.2	8.9	-1.9			1.6	1	3
5804.0	5808.0	D	11.7	92	1.2	356	122	9.1	8.9		-1.5		-.2	1	2
5806.0	5810.0	A	9.0	85	1.2	356	124	9.1	8.8	-1.0	-1.0	1.0		1	0
5808.0	5812.0	A	4.7	107	1.3	357	126	9.1	8.8	-.5	-.6	.4		1	0
5810.0	5814.0	B	1.5	41	1.2	358	128	9.1	8.8	.2	.1	.4		1	0
5812.0	5816.0	B	5.3	73	1.2	360	128	9.2	8.9	-.5	-.4	.8		1	0
5814.0	5818.0	C	17.9	69	1.2	0	128	9.3	9.1	-1.7	-1.5	2.7		1	0
5816.0	5820.0	C	9.3	91	1.2	358	126	9.2	9.0	-.5	-1.1	1.0		1	0
5818.0	5822.0	C	7.2	132	1.1	357	123	9.0	8.9	-.5	-1.0	.0		1	0
5820.0	5824.0	C	11.8	153	1.1	355	123	9.0	8.8	-.8	-1.5	-.8		1	0
5822.0	5826.0	D	4.7	178	1.2	355	125	9.0	8.7		-.3		-.4	1	2
5824.0	5828.0	C	5.5	53	1.2	355	125	9.0	8.8	-.3	-.1	1.0		1	0
5826.0	5830.0	C	22.4	205	1.3	356	122	9.0	8.9	1.6	-.3			1	4
5828.0	5832.0	C	10.1	93	1.2	354	118	9.1	8.8	-1.1			-.3	1	3
5830.0	5834.0	B	15.7	85	1.2	351	115	9.0	8.8	-1.7	-2.1			1	4
5832.0	5836.0	B	22.3	79	1.3	351	116	9.0	8.8	-2.6	-2.8			1	4
5834.0	5838.0	D	34.9	188	1.2	353	120	9.2	8.8	1.6	-2.2			1	4
5836.0	5840.0	C	17.2	249	1.1	355	125	9.2	8.8	1.9			-.2	1	3
5838.0	5842.0	A	6.7	89	1.1	357	128	9.1	8.9	-.4	-.7	.8		1	0
5840.0	5844.0	B	6.4	103	1.1	357	130	9.0	8.8	-.6	-.8	.6		1	0
5842.0	5846.0	B	3.6	189	1.1	357	134	9.0	8.8	-.5	-.2	-.3		1	0
5844.0	5848.0	C	15.3	149	1.2	356	136	9.0	8.7	-.9			-1.3	1	3
5846.0	5850.0	D	15.1	68	1.2	355	134	9.1	8.7	-1.6	-.9			1	4
5848.0	5852.0	C	5.3	77	1.2	355	128	9.1	8.7	-.6			.2	1	3
5850.0	5854.0	C	22.2	359	1.2	356	125	9.1	8.8	-.4	2.3			1	4
5852.0	5856.0	A	7.0	302	1.2	356	125	9.1	8.8	.0	1.2	.1		1	0
5854.0	5858.0	D	15.5	106	1.2	355	127	9.1	8.8	-1.6			-.6	1	3
5856.0	5860.0	C	23.0	18	1.2	357	130	9.1	8.7	-1.0			2.6	1	3
5858.0	5862.0	D	29.1	230	1.2	357	130	9.1	8.7		.9		-1.8	1	2
5860.0	5864.0	C	27.5	202	1.2	355	128	9.1	8.7		-1.2		-2.7	1	2
5862.0	5866.0	B	6.0	272	1.2	353	126	9.1	8.7	.7	.9	-.4		1	0
5864.0	5868.0	B	17.0	252	1.1	353	126	9.1	8.7		1.7		-.1	1	2

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5870.0	5874.0	C	16.5	238	1.2	352	125	9.1	8.7	1.4	1.2	-2.2		1	0
5872.0	5876.0	A	14.5	258	1.2	351	123	9.0	8.8	.9	1.8	-1.5		1	0
5874.0	5878.0	A	14.4	227	1.1	351	122	9.1	8.8	1.1	.7	-2.0		1	0
5876.0	5880.0	C	4.7	95	1.1	358	131	9.1	8.7	.2	-.5	.5		1	0
5878.0	5882.0	D	15.1	356	1.1	4	144	9.0	8.6	-.3	2.2	1.4		1	0
5882.0	5886.0	D	20.1	238	1.1	7	152	9.1	8.6	2.3	-.1	-3.0		1	0
5884.0	5888.0	D	21.6	208	1.1	3	152	9.1	8.6	.7	-1.8	-2.8		1	0
5888.0	5892.0	D	13.5	268	1.1	1	147	9.1	8.8	1.5			-.2	1	3
5890.0	5894.0	D	11.0	274	1.1	2	142	9.1	8.8		1.3		.1	1	2
5892.0	5896.0	D	32.2	41	1.1	359	138	9.1	8.8	-2.4	.9			1	4
5894.0	5898.0	A	9.4	73	1.1	359	142	9.2	8.9	-1.0	-.4	1.5		1	0
5896.0	5900.0	A	10.9	70	1.0	359	147	9.3	9.0	-1.1	-.3	1.8		1	0
5898.0	5902.0	A	5.4	135	1.1	359	146	9.4	9.0	-.1	-.7	.3		1	0
5900.0	5904.0	A	6.0	185	1.1	359	144	9.4	9.0	.2	-.6	-.5		1	0
5902.0	5906.0	A	5.9	182	1.1	358	141	9.4	9.0	.2	-.6	-.5		1	0
5904.0	5908.0	B	22.7	208	1.1	358	138	9.4	9.0	1.1	-1.2			1	4
5906.0	5910.0	B	14.8	197	1.2	357	135	9.3	9.0	.5	-1.0			1	4
5908.0	5912.0	A	7.4	168	1.2	356	135	9.2	8.9	.2	-.9	-.5		1	0
5910.0	5914.0	A	8.2	179	1.2	355	133	9.1	8.8	.1	-.8	-.8		1	0
5912.0	5916.0	A	16.2	184	1.2	353	127	9.1	8.8	-.1	-1.3	-2.0		1	0
5914.0	5918.0	A	14.6	182	1.2	352	126	9.1	8.8	-.2	-1.2	-1.8		1	0
5916.0	5920.0	A	12.4	201	1.2	354	130	9.1	8.8	-.2	-.5	-1.7		1	0
5918.0	5922.0	B	12.6	199	1.2	356	132	9.1	9.0	-.3	-.7	-1.7		1	0
5920.0	5924.0	A	7.3	122	1.2	355	131	9.2	9.1	-.3	-1.0	.3		1	0
5922.0	5926.0	A	14.7	38	1.2	354	127	9.2	9.1	-2.1	.1	2.5		1	0
5924.0	5928.0	A	8.9	108	1.2	352	124	9.2	8.9	-1.4	-1.0	.4		1	0
5926.0	5930.0	A	7.4	154	1.2	346	112	9.2	8.8	-.4	-.8	-.6		1	0
5928.0	5932.0	A	6.3	197	1.1	339	96	9.2	8.9	.3	.3	-.8		1	0
5930.0	5934.0	A	1.6	38	1.1	333	87	9.3	9.0	-.1	-.1	.3		1	0
5932.0	5936.0	D	27.6	91	1.1	331	84	9.3	9.2	-2.2			-2.6	1	3
5936.0	5940.0	D	19.8	42	1.0	333	81	9.3	9.3	-2.4			-.2	1	3
5938.0	5942.0	D	10.7	288	1.0	333	80	9.4	9.2	.5	1.6	1.0		1	0
5940.0	5944.0	C	26.1	138	1.0	332	78	9.4	9.1	.7	-2.2			1	4
5946.0	5950.0	D	26.7	84	1.0	333	74	9.1	8.9	-1.9			-2.5	1	3
5948.0	5952.0	C	21.7	2	1.0	332	73	9.1	8.8		-1.2		1.2	1	2
5950.0	5954.0	D	28.8	350	1.0	333	74	9.1	8.8		-.5		2.3	1	2
5958.0	5962.0	D	13.1	271	1.0	329	68	9.1	8.8		2.0		1.5	1	2
5960.0	5964.0	D	15.5	220	.9	328	66	9.1	8.8	1.6			.7	1	3
5962.0	5966.0	D	15.8	136	.9	325	61	9.2	8.8	.8			-1.5	1	3
5964.0	5968.0	C	10.9	104	.8	321	55	9.3	8.8	.0			-1.2	1	3
5966.0	5970.0	C	17.9	3	.8	318	48	9.4	8.9	-2.2	-2.1	2.2		1	0
5968.0	5972.0	D	13.3	323	.8	312	38	9.3	8.9	-1.4	-.6			1	4
5972.0	5976.0	B	22.8	41	.4	292	6	9.1	9.1	-.5	-3.2	-2.2		1	0
5974.0	5978.0	A	12.9	34	.3	281	355	9.3	9.1	.1	-1.7	-1.3		1	0
5976.0	5980.0	A	12.1	25	.2	276	349	9.4	9.1	-.1	-1.6	-1.1		1	0
5978.0	5982.0	B	9.4	357	.2	276	345	9.4	9.0	-.6	-1.5	-.3		1	0
5980.0	5984.0	A	3.5	21	.2	276	342	9.4	9.1	.0	-.5	-.3		1	0
5982.0	5986.0	A	1.7	109	.3	276	341	9.4	9.1	.2	.1	-.2		1	0
5984.0	5988.0	A	3.3	17	.3	277	341	9.5	9.1	-1.1	-.5	-.3		1	0
5986.0	5990.0	A	2.1	279	.3	48	340	9.5	9.1	-.2	-.2	.3		1	0
5988.0	5992.0	A	2.3	278	.3	86	339	9.5	9.2	-.2	-.2	.3		1	0
5990.0	5994.0	A	4.1	245	.3	86	338	9.5	9.2	-.3	.0	.6		1	0
5992.0	5996.0	A	4.4	250	.2	86	337	9.5	9.2	-.3	.0	.7		1	0
5994.0	5998.0	D	15.0	157	.2	86	335	9.5	9.2	1.3			1.3	1	3
5996.0	6000.0	D	10.3	181	.2	86	333	9.4	9.1	1.3	1.5	.7		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5998.0	6002.0	D	7.2	326	.1	86	331	9.4	9.1		-1.2		-.5	1	2
6000.0	6004.0	A	13.1	266	.1	86	328	9.3	9.0	-.7	-1.0	1.8		1	0
6002.0	6006.0	A	7.1	255	.1	86	323	9.3	9.0	-.3	-.4	1.0		1	0
6004.0	6008.0	A	2.9	253	.1	86	317	9.3	9.0	-.4	-.2	.4		1	0
6006.0	6010.0	A	5.2	233	.1	86	311	9.3	9.0	-.2	-.2	.8		1	0
6008.0	6012.0	C	5.2	168	.1	86	306	9.3	9.0		.6		.6	1	2
6010.0	6014.0	D	26.0	197	.1	86	300	9.3	9.0		1.1		2.7	1	2
6012.0	6016.0	B	22.1	173	.2	86	295	9.3	9.0	-.5			2.5	1	3
6014.0	6018.0	B	10.5	139	.3	85	289	9.3	9.0	1.0	1.5	.8		1	0
6016.0	6020.0	B	11.6	183	.3	80	286	9.3	9.1		.5		1.1	1	2
6018.0	6022.0	D	15.9	258	.4	77	283	9.3	9.1	-1.7			-.6	1	3
6020.0	6024.0	D	17.3	14	.4	76	282	9.3	9.1		.2		-1.3	1	2
6022.0	6026.0	D	3.4	270	.4	68	280	9.3	9.1	-.1	-.5	.1		1	0
6024.0	6028.0	D	5.1	105	.4	65	278	9.3	9.1	.3	.9	.1		1	0
6026.0	6030.0	D	19.7	140	.4	58	276	9.4	9.1		2.5		2.3	1	2
6028.0	6032.0	A	5.0	260	.4	55	275	9.3	9.1	-.6	-.7	.2		1	0
6030.0	6034.0	A	1.8	178	.4	57	272	9.3	9.0	-.1	.1	.2		1	0
6032.0	6036.0	A	3.6	258	.5	57	268	9.2	9.0	-.6	-.5	.1		1	0
6034.0	6038.0	A	5.9	241	.5	58	263	9.2	9.0	-.8	-.8	.3		1	0
6036.0	6040.0	A	8.9	237	.6	57	260	9.2	9.0	-.4	-1.2	.5		1	0
6038.0	6042.0	A	7.8	241	.6	55	257	9.2	9.0	-.4	-1.1	.3		1	0
6040.0	6044.0	A	3.4	239	.7	55	255	9.2	8.9	-.3	-.4	.1		1	0
6042.0	6046.0	A	1.9	252	.7	59	253	9.2	9.0	-.1	-.2	.0		1	0
6044.0	6048.0	A	1.5	230	.7	62	252	9.3	9.0	.0	-.1	.1		1	0
6046.0	6050.0	B	23.3	201	.7	57	252	9.3	9.0	-2.5	-2.4	3.0		1	0
6048.0	6052.0	A	22.3	200	.7	57	251	9.3	9.0	-2.4	-2.3	2.8		1	0
6050.0	6054.0	A	3.4	195	.7	57	250	9.3	9.1	-.1	-.2	.4		1	0
6052.0	6056.0	A	3.4	209	.8	56	248	9.4	9.1	-.2	-.3	.3		1	0
6054.0	6058.0	A	2.8	154	.8	52	247	9.3	9.1	.0	.1	.4		1	0
6056.0	6060.0	A	2.2	156	.9	52	245	9.3	9.1	.2	.1	.3		1	0
6058.0	6062.0	A	3.4	196	.9	49	245	9.3	9.1	-.1	-.2	.4		1	0
6060.0	6064.0	A	4.4	223	.8	50	246	9.3	9.0	-.4	-.5	.2		1	0
6062.0	6066.0	A	4.3	219	.8	50	248	9.4	9.0	-.3	-.5	.3		1	0
6064.0	6068.0	A	4.1	217	.8	51	250	9.5	9.0	-.3	-.5	.3		1	0
6066.0	6070.0	D	7.2	301	.8	53	252	9.3	9.0	.1			-.8	1	3
6068.0	6072.0	A	8.6	226	.7	53	253	9.2	8.9	-.5	-1.1	.6		1	0
6070.0	6074.0	A	5.1	222	.8	53	253	9.1	8.9	-.6	-.6	.4		1	0
6072.0	6076.0	A	7.3	251	.8	52	254	9.1	8.9	-.6	-1.1	.0		1	0
6074.0	6078.0	A	6.3	243	.8	56	254	9.1	8.9	-.8	-.9	.1		1	0
6076.0	6080.0	A	9.5	235	.8	60	254	9.2	8.9	-1.2	-1.3	.5		1	0
6078.0	6082.0	A	10.5	233	.8	59	253	9.3	8.9	-1.2	-1.5	.5		1	0
6080.0	6084.0	A	5.3	239	.9	57	252	9.2	9.0	-.1	-.7	.2		1	0
6082.0	6086.0	A	2.1	213	.9	58	252	9.3	9.0	.5	-.1	.2		1	0
6084.0	6088.0	D	27.3	165	.9	58	251	9.3	9.0		-.2		2.2	1	2
6086.0	6090.0	D	24.6	70	.9	55	250	9.3	9.0	2.2			2.2	1	3
6088.0	6092.0	D	.7	195	.9	51	248	9.3	9.0	.1	.1	.1		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5750.0	5754.0	D	1.9	331	1.0	346	84	9.8	9.5	-.3	.1	.5		1	0
5752.0	5756.0	D	.6	27	1.0	345	81	9.8	9.5	-.4	.0	.3		1	0
5754.0	5758.0	D	.6	29	1.0	344	79	9.8	9.5	-.2	-.1	.2		1	0
5758.0	5762.0	D	2.2	112	1.0	340	73	9.8	9.5	.1	-.3	-.1		1	0
5760.0	5764.0	C	3.1	100	1.0	338	69	9.8	9.5	-.1	-.5	-.1		1	0
5762.0	5766.0	B	3.0	90	.9	337	66	9.9	9.6	-.1	-.5	.0		1	0
5764.0	5768.0	B	2.3	89	.9	336	63	9.9	9.6	.0	-.4	.0		1	0
5770.0	5774.0	A	1.7	240	.8	336	53	10.0	9.7	.1	.3	.2		1	0
5772.0	5776.0	A	1.6	191	.7	336	50	10.0	9.7	.2	.2	-.1		1	0
5774.0	5778.0	A	3.6	95	.7	341	46	10.1	9.8	.2	-.5	-.3		1	0
5776.0	5780.0	A	3.5	81	.7	345	43	10.1	9.8	.1	-.6	-.3		1	0
5778.0	5782.0	A	3.1	110	.7	344	43	10.0	9.7	.1	-.3	-.4		1	0
5780.0	5784.0	A	1.9	130	.7	340	41	9.9	9.6	.2	-.1	-.2		1	0
5782.0	5786.0	A	2.9	129	.7	337	38	9.8	9.6	.1	.0	-.4		1	0
5784.0	5788.0	B	6.3	125	.6	337	35	9.8	9.6	.0	-.1	-1.0		1	0
5786.0	5790.0	D	25.1	124	.6	336	33	9.8	9.6	2.2			-2.2	1	3
5788.0	5792.0	D	25.6	122	.6	334	32	9.7	9.5	2.2	.0			1	4
5790.0	5794.0	A	4.4	33	.6	333	33	9.7	9.4	-.4	-.8	.1		1	0
5792.0	5796.0	A	2.2	107	.6	333	34	9.6	9.4	.0	-.2	-.3		1	0
5794.0	5798.0	A	2.3	114	.7	332	36	9.5	9.3	.0	-.1	-.3		1	0
5796.0	5800.0	A	7.3	91	.7	329	37	9.4	9.2	.0	-.8	-.9		1	0
5798.0	5802.0	A	10.3	84	.7	327	38	9.4	9.2	.1	-1.2	-1.1		1	0
5800.0	5804.0	C	14.8	352	.7	326	38	9.3	9.0	-1.8			.1	1	3
5802.0	5806.0	D	13.5	323	.7	325	40	9.1	8.9	-1.4			.8	1	3
5804.0	5808.0	A	9.4	107	.7	323	43	9.1	8.8	.7	-.7	-1.2		1	0
5806.0	5810.0	A	8.9	98	.8	322	45	9.1	8.8	.5	-.9	-1.0		1	0
5808.0	5812.0	A	7.8	85	.8	325	48	9.1	8.8	-1.0	-.1	.1		1	0
5810.0	5814.0	B	8.2	336	.8	328	49	9.1	8.9	-1.6	-.4	1.3		1	0
5812.0	5816.0	D	3.7	82	.8	331	49	9.2	9.0	-1.1	-.5	-.2		1	0
5814.0	5818.0	C	6.7	135	.8	328	48	9.3	9.0	.4	-.1	-.9		1	0
5816.0	5820.0	C	9.4	133	.8	322	46	9.2	8.8	.9	-.1	-1.3		1	0
5818.0	5822.0	B	8.4	132	.7	319	44	9.1	8.7	1.0	-.1	-1.2		1	0
5820.0	5824.0	D	13.8	129	.7	315	44	9.0	8.7	.9			-1.1	1	3
5822.0	5826.0	D	11.8	113	.8	317	47	9.0	8.7	.4			-1.2	1	3
5824.0	5828.0	B	4.2	96	.8	322	46	9.1	8.7	.0	-.4	-.4		1	0
5826.0	5830.0	B	6.2	107	.8	319	42	9.1	8.8	.0	-.4	-.7		1	0
5828.0	5832.0	D	9.6	145	.7	312	37	9.0	8.8	.9			-.4	1	3
5834.0	5838.0	C	31.3	119	.7	315	44	9.1	8.9	1.9	-1.4			1	4
5836.0	5840.0	B	18.4	126	.8	317	48	9.1	8.9	1.1			-1.7	1	3
5838.0	5842.0	A	7.3	108	.8	318	50	9.1	8.8	-.2	-.6	-.8		1	0
5840.0	5844.0	B	6.3	102	.8	317	53	9.0	8.7	-.2	-.6	-.6		1	0
5842.0	5846.0	B	9.8	203	.8	316	57	9.0	8.7	.6	1.3	-.7		1	0
5844.0	5848.0	C	7.5	223	.9	315	58	8.9	8.8	.9	1.2	-.2		1	0
5846.0	5850.0	D	30.6	145	.8	312	54	8.9	8.8	2.6	.1			1	4
5848.0	5852.0	C	19.6	119	.8	309	48	9.0	8.8	.9	-1.0			1	4
5850.0	5854.0	C	12.0	266	.8	309	45	9.1	8.8	.1			1.4	1	3
5852.0	5856.0	B	6.4	329	.8	310	47	9.0	8.8	-.5	-.2	1.1		1	0
5854.0	5858.0	B	5.5	259	.8	310	49	9.0	8.8	.9	.8	.5		1	0
5856.0	5860.0	B	19.1	171	.8	314	53	8.9	8.8	1.7	1.5	-2.6		1	0
5858.0	5862.0	B	24.4	161	.8	315	52	9.0	8.8		1.3		-1.1	1	2
5860.0	5864.0	C	2.6	47	.8	314	49	9.0	8.8	-.4	-.4	.1		1	0
5862.0	5866.0	A	20.2	264	.8	315	47	9.0	8.8	.3	2.7	2.1		1	0
5864.0	5868.0	C	23.4	259	.8	314	47	9.0	8.7	.6			2.7	1	3
5866.0	5870.0	D	14.2	289	.8	312	47	9.0	8.7	-.5			1.6	1	3
5870.0	5874.0	D	13.2	242	.9	315	45	9.0	8.8	.6	2.0	.7		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5872.0	5876.0	A	26.0	233	.8	310	42	9.0	8.7	1.3	4.3	1.0		1	0
5874.0	5878.0	A	9.1	251	.7	309	44	9.0	8.8	.3	1.3	.8		1	0
5876.0	5880.0	D	20.5	354	.8	317	58	8.9	8.8	-2.3			.8	1	3
5878.0	5882.0	D	32.7	353	.9	328	70	8.9	8.7		-1.3		2.1	1	2
5880.0	5884.0	D	10.3	319	.9	331	73	8.9	8.7		.7		1.1	1	2
5882.0	5886.0	D	9.2	289	.9	328	74	8.9	8.8		1.2		1.1	1	2
5890.0	5894.0	D	20.0	284	.8	323	63	9.1	8.8	.1			2.4	1	3
5892.0	5896.0	A	8.0	165	.8	323	62	9.1	8.9	.4	.3	-1.1		1	0
5894.0	5898.0	A	3.1	179	.9	322	68	9.2	8.9	.3	.2	-.3		1	0
5896.0	5900.0	A	2.5	342	.9	321	71	9.3	9.0	-.2	.0	.5		1	0
5898.0	5902.0	B	10.5	346	.9	321	68	9.3	9.1		-.2		.8	1	2
5900.0	5904.0	A	5.9	201	.9	322	65	9.2	9.1	.9	.7	-.5		1	0
5902.0	5906.0	A	10.7	213	.9	321	62	9.3	9.1	1.5	1.6	-.7		1	0
5904.0	5908.0	B	12.6	197	.9	319	59	9.3	9.1	1.4			.2	1	3
5906.0	5910.0	B	16.8	203	.9	316	57	9.2	9.0	1.7	2.3	-1.4		1	0
5908.0	5912.0	A	9.0	198	.9	315	56	9.1	8.9	.5	1.2	-.7		1	0
5910.0	5914.0	B	11.4	201	.8	313	52	9.1	8.8	.8	1.6	-.8		1	0
5912.0	5916.0	C	14.0	184	.7	309	46	9.0	8.8	1.1	1.7	-1.3		1	0
5914.0	5918.0	A	15.0	197	.8	309	46	9.0	8.8	1.5	2.1	-1.0		1	0
5916.0	5920.0	A	4.2	182	.8	314	51	9.1	8.8	.6	.5	-.4		1	0
5918.0	5922.0	C	4.1	170	.8	318	55	9.2	8.8	.4	.3	-.4		1	0
5920.0	5924.0	A	7.7	150	.8	318	54	9.4	8.9	.7	.1	-1.1		1	0
5922.0	5926.0	A	2.9	110	.8	317	50	9.3	8.9	.3	-.2	-.3		1	0
5924.0	5928.0	A	4.2	130	.8	314	44	9.2	8.9	1.0	.0	-.5		1	0
5926.0	5930.0	B	8.5	205	.7	309	32	9.1	8.9	.7	1.3	.0		1	0
5928.0	5932.0	A	8.7	180	.5	297	6	9.2	8.9	.5	1.4	-.1		1	0
5930.0	5934.0	A	5.1	107	.4	296	1	9.4	9.0	.8	.2	-.7		1	0
5932.0	5936.0	D	24.1	158	.4	293	1	9.6	9.0	2.7			1.2	1	3
5936.0	5940.0	D	21.5	41	.4	298	358	9.4	9.0	-.2			-2.6	1	3
5938.0	5942.0	D	12.3	44	.4	292	356	9.3	9.0		-1.4		-1.4	1	2
5940.0	5944.0	C	14.5	108	.3	317	354	9.3	9.1	1.5			-.6	1	3
5942.0	5946.0	C	17.2	287	.3	73	352	9.3	9.0	-1.9	-1.2			1	4
5944.0	5948.0	C	17.7	284	.2	74	348	9.1	8.8	-1.9	-1.3			1	4
5946.0	5950.0	D	30.7	236	.2	74	341	9.1	8.8	-1.8	1.4			1	4
5948.0	5952.0	B	26.6	7	.2	74	340	9.1	8.7	-1.0			-3.0	1	3
5958.0	5962.0	D	17.0	262	.2	74	334	9.0	8.8	-1.7			.8	1	3
5966.0	5970.0	C	21.0	50	.1	74	309	9.1	9.0		.7		-1.4	1	2
5968.0	5972.0	B	22.7	49	.1	74	309	9.3	8.8		.7		-1.5	1	2
5970.0	5974.0	B	19.1	49	.1	74	311	9.4	8.8		.5		-1.3	1	2
5972.0	5976.0	B	14.5	49	.1	74	315	9.3	9.0		.2		-1.1	1	2
5974.0	5978.0	C	2.8	43	.1	74	320	9.3	9.1	.0	.0	-.5		1	0
5978.0	5982.0	A	3.9	354	.0	74	324	9.4	9.1	-.3	-.6	-.3		1	0
5980.0	5984.0	A	3.4	0	.0	74	326	9.4	9.1	-.3	-.5	-.3		1	0
5982.0	5986.0	A	2.0	232	.1	74	328	9.5	9.1	.0	.0	.3		1	0
5984.0	5988.0	A	5.2	240	.2	74	329	9.5	9.1	.2	.0	.8		1	0
5986.0	5990.0	A	2.1	276	.2	74	329	9.5	9.1	-.3	-.2	.2		1	0
5988.0	5992.0	A	2.0	273	.1	74	329	9.5	9.2	-.2	-.2	.2		1	0
5990.0	5994.0	A	2.6	267	.1	74	329	9.5	9.2	-.3	-.2	.3		1	0
5992.0	5996.0	A	2.9	246	.1	74	329	9.5	9.2	-.3	-.1	.4		1	0
5994.0	5998.0	D	23.2	33	.1	74	327	9.5	9.2	1.0	-1.7			1	4
5996.0	6000.0	C	9.1	223	.1	74	325	9.4	9.1		.3		.9	1	2
5998.0	6002.0	A	11.0	271	.0	74	321	9.4	9.1	-1.0	-1.2	1.4		1	0
6000.0	6004.0	A	10.1	270	.0	74	317	9.3	9.0	-1.0	-1.1	1.2		1	0
6002.0	6006.0	A	1.9	305	.1	74	311	9.2	9.0	-.3	-.3	.0		1	0
6004.0	6008.0	A	3.0	236	.2	74	304	9.2	9.0	-.2	-.2	.4		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6006.0	6010.0	B	5.7	213	.2	74	299	9.2	9.0	-.3	.0	.9		1	0
6008.0	6012.0	B	26.1	46	.3	74	294	9.2	9.0		1.7		-1.2	1	2
6010.0	6014.0	C	14.9	149	.2	74	290	9.2	9.0		1.9		1.7	1	2
6012.0	6016.0	B	20.3	172	.3	74	287	9.2	9.0	-.8	1.5			1	4
6014.0	6018.0	A	3.2	164	.4	70	283	9.3	9.0	.7	.3	.4		1	0
6016.0	6020.0	A	1.5	173	.4	66	279	9.3	9.1	.8	.1	.2		1	0
6018.0	6022.0	D	5.9	321	.4	72	277	9.3	9.1	.0	-.6			1	4
6022.0	6026.0	D	.5	262	.5	64	274	9.3	9.1	.6	.0	.0		1	0
6024.0	6028.0	D	13.0	62	.5	57	270	9.3	9.1	1.5			.5	1	3
6026.0	6030.0	C	10.5	116	.5	55	269	9.3	9.1		1.6		1.2	1	2
6028.0	6032.0	A	2.1	225	.5	55	265	9.3	9.0	-.4	-.2	.2		1	0
6030.0	6034.0	A	1.2	231	.6	55	262	9.2	9.0	-.4	-.1	.1		1	0
6032.0	6036.0	A	2.2	239	.6	53	259	9.2	9.0	-.3	-.2	.1		1	0
6034.0	6038.0	A	13.1	242	.6	52	257	9.2	9.0	-.7	-2.0	.5		1	0
6036.0	6040.0	A	10.0	240	.7	51	255	9.2	8.9	-.4	-1.5	.4		1	0
6038.0	6042.0	A	4.0	232	.7	50	253	9.2	8.9	-.3	-.5	.2		1	0
6040.0	6044.0	A	2.1	244	.7	51	252	9.2	8.9	-.1	-.2	.0		1	0
6042.0	6046.0	A	1.8	248	.7	56	251	9.3	9.0	-.1	-.2	.0		1	0
6044.0	6048.0	A	16.6	187	.8	57	250	9.3	9.0	-1.3	-1.1	2.3		1	0
6046.0	6050.0	A	21.9	201	.8	55	250	9.3	9.0	-2.5	-2.3	2.7		1	0
6048.0	6052.0	A	3.9	211	.8	56	249	9.3	9.0	-.3	-.4	.3		1	0
6050.0	6054.0	A	3.0	219	.8	54	248	9.3	9.1	-.2	-.3	.2		1	0
6052.0	6056.0	A	1.6	146	.8	54	246	9.3	9.1	.2	.2	.2		1	0
6054.0	6058.0	A	2.1	144	.9	52	244	9.3	9.1	.1	.2	.3		1	0
6056.0	6060.0	A	3.3	229	.9	48	244	9.3	9.1	-.1	-.4	.1		1	0
6058.0	6062.0	A	3.7	228	.9	45	245	9.3	9.1	-.3	-.4	.1		1	0
6060.0	6064.0	A	4.7	232	.8	47	247	9.3	9.0	-.4	-.6	.1		1	0
6062.0	6066.0	A	4.3	234	.8	46	249	9.4	9.0	-.4	-.6	.1		1	0
6064.0	6068.0	B	4.8	235	.8	47	251	9.4	9.0	-.4	-.6	.2		1	0
6066.0	6070.0	C	12.1	243	.8	47	252	9.3	8.9	-.3	-1.8	.2		1	0
6068.0	6072.0	A	8.6	234	.7	51	253	9.1	8.9	-.5	-1.2	.4		1	0
6070.0	6074.0	A	5.2	219	.7	51	253	9.1	8.9	-.7	-.6	.4		1	0
6072.0	6076.0	A	7.6	260	.8	52	253	9.1	8.9	-.6	-1.1	-.2		1	0
6074.0	6078.0	A	6.4	242	.8	57	254	9.1	8.9	-.8	-.9	.2		1	0
6076.0	6080.0	A	10.9	236	.8	61	254	9.2	8.9	-1.3	-1.6	.5		1	0
6078.0	6082.0	A	12.0	231	.8	60	254	9.2	8.9	-1.3	-1.7	.7		1	0
6080.0	6084.0	A	6.4	247	.8	56	253	9.2	9.0	-.3	-.9	.1		1	0
6082.0	6086.0	A	2.4	242	.8	55	252	9.2	9.1	.3	-.3	.0		1	0
6084.0	6088.0	D	33.7	148	.8	58	251	9.3	9.0	-2.1	1.6			1	4
6086.0	6090.0	D	20.9	137	.9	53	250	9.3	9.0		1.5		2.3	1	2
6088.0	6092.0	C	1.1	29	.9	52	248	9.3	9.0	.2	.3			1	4

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5729.0	5733.0	D	2.5	182	1.2	357	109	9.7	9.4	.2	.0	-.2		1	0
5731.0	5735.0	D	4.5	170	1.2	357	107	9.7	9.4	.2	-.3	-.5		1	0
5733.0	5737.0	C	7.4	169	1.2	357	104	9.7	9.4	-.2	-.5	-.9		1	0
5735.0	5739.0	C	.9	53	1.1	355	101	9.7	9.4	-.1	.0	.3		1	0
5737.0	5741.0	B	.8	173	1.1	354	99	9.7	9.4	.1	.0	.0		1	0
5739.0	5743.0	A	1.5	170	1.1	353	97	9.7	9.4	.2	.0	-.1		1	0
5741.0	5745.0	C	1.3	107	1.1	352	95	9.7	9.4	-.2	-.2	.1		1	0
5743.0	5747.0	B	.6	101	1.1	350	93	9.7	9.4	-.1	-.1	.2		1	0
5745.0	5749.0	C	.5	22	1.1	349	90	9.7	9.4	-.1	.0	.3		1	0
5747.0	5751.0	D	1.6	317	1.1	348	87	9.7	9.4	-.1	.2	.4		1	0
5749.0	5753.0	D	1.5	347	1.0	348	84	9.7	9.4	-.3	.1	.4		1	0
5751.0	5755.0	D	1.3	352	1.0	346	82	9.8	9.5	-.4	.0	.4		1	0
5753.0	5757.0	D	.2	71	1.0	345	80	9.8	9.5	-.3	.0	.2		1	0
5755.0	5759.0	D	1.2	43	1.0	344	77	9.8	9.5	-.2	-.2	.3		1	0
5757.0	5761.0	D	.9	73	1.0	343	74	9.8	9.5	.0	-.2	.2		1	0
5759.0	5763.0	D	1.9	143	1.0	341	71	9.8	9.5	.1	-.1	-.1		1	0
5761.0	5765.0	C	2.9	92	.9	341	67	9.8	9.5	-.1	-.5	-.1		1	0
5763.0	5767.0	A	2.8	78	.9	341	64	9.9	9.6	.0	-.5	.0		1	0
5765.0	5769.0	B	1.6	55	.8	340	61	9.9	9.6	.0	-.3	.2		1	0
5767.0	5771.0	A	.1	112	.8	340	58	9.9	9.6	.0	.0	.1		1	0
5769.0	5773.0	A	2.1	253	.8	340	55	10.0	9.7	.1	.3	.2		1	0
5771.0	5775.0	A	2.2	245	.7	340	51	10.0	9.7	.1	.3	.2		1	0
5773.0	5777.0	A	7.8	231	.7	341	48	10.0	9.7	.4	1.3	.2		1	0
5775.0	5779.0	A	2.8	63	.7	344	44	10.2	9.7	.1	-.5	.0		1	0
5777.0	5781.0	A	3.8	85	.7	345	42	10.1	9.7	.0	-.6	-.3		1	0
5779.0	5783.0	A	3.0	101	.7	344	41	9.9	9.7	.0	-.3	-.3		1	0
5781.0	5785.0	A	1.6	128	.7	343	38	9.9	9.6	.1	-.1	-.2		1	0
5783.0	5787.0	A	1.0	152	.6	342	36	9.8	9.6	.0	.0	-.1		1	0
5785.0	5789.0	B	10.4	67	.6	340	34	9.8	9.6	-.3	-1.6	-.9		1	0
5787.0	5791.0	D	18.1	302	.6	338	33	9.8	9.6		.0		1.6	1	2
5789.0	5793.0	D	18.3	302	.6	337	33	9.7	9.5		.0		1.6	1	2
5791.0	5795.0	A	4.4	8	.6	335	35	9.6	9.4	-.3	-.7	.4		1	0
5793.0	5797.0	A	2.2	105	.6	333	37	9.5	9.3	-.1	-.2	-.2		1	0
5795.0	5799.0	A	3.6	108	.7	332	39	9.5	9.2	.0	-.3	-.5		1	0
5797.0	5801.0	A	6.8	92	.7	332	39	9.4	9.2	-.1	-.7	-.8		1	0
5799.0	5803.0	A	11.0	53	.7	330	39	9.3	9.1	-.8	-1.8	-.3		1	0
5801.0	5805.0	C	12.0	323	.7	329	40	9.2	8.9	-1.2			.7	1	3
5803.0	5807.0	C	6.9	145	.7	329	43	9.0	8.8	.2	.2	-.9		1	0
5805.0	5809.0	A	8.2	79	.7	327	45	9.0	8.7	.3	-1.1	-.6		1	0
5807.0	5811.0	A	4.2	88	.8	327	46	9.0	8.8	-.3	-.5	-.3		1	0
5809.0	5813.0	B	5.0	114	.8	328	48	9.0	8.8		-.3		-.5	1	2
5811.0	5815.0	C	14.6	27	.8	330	49	9.1	8.9	-1.6			-.6	1	3
5813.0	5817.0	D	7.1	96	.8	329	47	9.3	9.0	.1	-.8	-.7		1	0
5815.0	5819.0	D	7.7	123	.7	326	46	9.2	8.9	.6	-.3	-1.1		1	0
5817.0	5821.0	A	8.1	132	.7	324	44	9.1	8.7	.8	-.1	-1.1		1	0
5819.0	5823.0	C	10.8	178	.7	321	43	9.0	8.6	.9	1.2	-1.1		1	0
5821.0	5825.0	C	18.4	254	.8	321	47	8.9	8.6	.5	2.7	1.4		1	0
5823.0	5827.0	B	5.5	26	.8	322	48	9.0	8.6	-.6	-.8	.4		1	0
5825.0	5829.0	B	4.1	105	.7	320	43	9.0	8.7	-.2	-.3	-.4		1	0
5827.0	5831.0	D	10.1	131	.7	316	37	9.0	8.8	.8			-.7	1	3
5829.0	5833.0	B	8.4	245	.7	316	35	9.0	8.7		1.1		.9	1	2
5831.0	5835.0	D	18.2	350	.7	318	37	9.0	8.7		-2.1		.1	1	2
5833.0	5837.0	D	13.3	119	.7	319	41	9.0	8.8	.7			-1.2	1	3
5835.0	5839.0	B	10.3	156	.7	320	45	9.1	8.8	.4	.6	-1.4		1	0
5837.0	5841.0	A	6.6	124	.8	322	48	9.1	8.7	-.2	-.3	-.9		1	0

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5839.0	5843.0	B	7.3	117	.8	322	51	9.0	8.7	-.1	-.5	-.9		1	0
5841.0	5845.0	C	13.8	241	.9	322	55	9.0	8.7	.9			1.3	1	3
5843.0	5847.0	C	6.2	228	.9	322	57	8.9	8.7	.7	1.0	.0		1	0
5845.0	5849.0	D	4.6	120	.8	320	55	8.9	8.8	.5	-.3	-.5		1	0
5847.0	5851.0	C	14.9	255	.7	316	49	9.0	8.8	.5			1.7	1	3
5849.0	5853.0	B	8.7	339	.7	315	45	9.1	8.8	-.2	-.6	1.3		1	0
5851.0	5855.0	A	6.7	319	.8	316	47	9.1	8.8	-.2	.0	1.1		1	0
5853.0	5857.0	C	8.5	267	.8	316	50	9.0	8.8	.8	1.1	.9		1	0
5855.0	5859.0	B	6.9	252	.8	319	53	8.9	8.7	.8	1.0	.5		1	0
5857.0	5861.0	C	15.5	175	.8	320	53	8.9	8.7		1.3		-.3	1	2
5859.0	5863.0	C	6.2	219	.8	318	50	8.9	8.8	-.3	.9	-.1		1	0
5865.0	5869.0	B	21.3	277	.8	316	48	9.0	8.7	-.1	2.3	2.7		1	0
5867.0	5871.0	D	24.2	275	.8	314	47	8.9	8.7	.3	2.7	3.0		1	0
5869.0	5873.0	C	13.0	243	.8	313	46	9.0	8.7	.4	2.0	.7		1	0
5871.0	5875.0	A	19.0	258	.7	312	44	9.0	8.7	.5	2.6	1.8		1	0
5873.0	5877.0	A	13.9	237	.7	310	39	9.0	8.8	.6	2.1	.7		1	0
5875.0	5879.0	C	11.7	96	.7	309	37	9.0	8.8	.6	-1.0	-1.5		1	0
5877.0	5881.0	C	16.1	87	.6	307	34	8.9	8.7	.2			-1.7	1	3
5879.0	5883.0	D	4.5	229	.5	298	17	9.0	8.6	-.2	.6	.4		1	0
5881.0	5885.0	D	15.4	245	.3	282	354	9.0	8.6	-.8			1.5	1	3
5883.0	5887.0	D	27.9	257	.3	258	340	9.1	8.6	-2.6			2.0	1	3
5885.0	5889.0	D	20.4	257	.3	254	336	9.0	8.7	-1.9	-.6			1	4
5887.0	5891.0	D	21.5	285	.2	254	333	9.0	8.7	-2.5	-2.4			1	4
5889.0	5893.0	D	22.0	242	.2	254	324	9.0	8.7	-2.0			1.5	1	3
5891.0	5895.0	B	12.5	152	.2	254	328	9.1	8.7	-.9	2.0			1	4
5893.0	5897.0	A	8.8	165	.3	252	336	9.2	9.0	.6	1.4	.3		1	0
5895.0	5899.0	A	7.2	171	.3	15	335	9.4	9.0	.5	1.1	.3		1	0
5897.0	5901.0	A	2.7	151	.2	54	333	9.4	9.0	.5	.4	-.1		1	0
5899.0	5903.0	A	4.5	203	.2	54	331	9.4	9.0	.1	.4	.5		1	0
5901.0	5905.0	A	8.2	191	.2	54	328	9.4	9.0	.0	1.0	.9		1	0
5903.0	5907.0	B	17.9	192	.2	54	324	9.4	9.0	-.1	2.0			1	4
5905.0	5909.0	B	18.0	183	.2	54	321	9.2	8.9	.0	2.2	1.9		1	0
5907.0	5911.0	A	11.3	191	.2	54	323	9.1	8.8	.1	1.2	1.3		1	0
5909.0	5913.0	A	12.4	189	.1	54	317	9.1	8.8	.3	1.2	1.5		1	0
5911.0	5915.0	A	15.6	177	.1	54	303	9.0	8.7	.1	1.5	2.0		1	0
5913.0	5917.0	A	17.6	178	.1	54	302	9.0	8.7	-.4	1.6	2.3		1	0
5915.0	5919.0	A	15.5	194	.0	54	311	9.0	8.8	-.7	1.2	2.1		1	0
5917.0	5921.0	B	16.6	192	.1	54	317	9.1	8.9	-1.0	1.6	2.2		1	0
5919.0	5923.0	A	9.7	153	.1	54	320	9.1	9.1	1.1	1.5	.3		1	0
5921.0	5925.0	A	6.7	114	.1	54	320	9.1	9.1	.7	1.0	-.5		1	0
5923.0	5927.0	B	18.1	168	.1	54	310	9.1	8.9	.3	2.4			1	4
5925.0	5929.0	B	15.6	161	.2	54	294	9.2	8.8	-.2	1.7	1.8		1	0
5927.0	5931.0	A	14.0	160	.3	51	279	9.1	8.9	-.6	1.1	1.9		1	0
5929.0	5933.0	A	10.8	118	.4	44	266	9.3	9.0	-.3	1.5	.9		1	0
5931.0	5935.0	D	10.2	59	.4	37	260	9.3	9.2	1.0	1.6	-.6		1	0
5935.0	5939.0	D	32.0	13	.4	38	257	9.3	9.1		2.6		-1.3	1	2
5937.0	5941.0	D	22.1	349	.5	40	254	9.3	9.1	2.1			-1.7	1	3
5939.0	5943.0	D	7.5	358	.5	38	250	9.4	9.1	.8			-.4	1	3
5941.0	5945.0	B	15.5	267	.5	33	245	9.3	9.0		-2.3		-1.7	1	2
5947.0	5951.0	C	5.1	263	.6	32	239	9.0	8.7		-.6		-.5	1	2
5951.0	5955.0	D	10.0	216	.6	35	240	9.0	8.7		-1.4		-.4	1	2
5957.0	5961.0	D	10.9	305	.7	28	225	9.0	8.8		-.2		-.9	1	2
5961.0	5965.0	C	14.2	341	.8	25	217	9.2	8.8		1.4		-.2	1	2
5967.0	5971.0	C	17.8	30	.8	17	199	9.3	8.9	1.3			1.8	1	3
5969.0	5973.0	C	19.9	42	.9	18	194	9.1	9.2	.7			2.3	1	3

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QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
5971.0	5975.0	C	15.9	40	1.0	18	191	9.2	9.2	.6			1.9	1	3
5973.0	5977.0	A	11.7	14	1.0	18	189	9.3	9.2	.7	2.1	.2		1	0
5975.0	5979.0	A	11.0	3	1.0	18	187	9.5	9.1	.6	2.0	-.1		1	0
5977.0	5981.0	B	15.4	0	1.1	15	184	9.5	9.1	.9	2.8	-.1		1	0
5979.0	5983.0	A	2.5	12	1.1	11	177	9.5	9.1	.1	.6	.1		1	0
5981.0	5985.0	B	2.3	181	1.2	7	170	9.4	9.1	-.1	-.2	.0		1	0
5987.0	5991.0	A	1.7	259	1.3	7	164	9.5	9.2	.2	.2	-.2		1	0
5989.0	5993.0	A	1.2	256	1.3	6	163	9.5	9.2	.3	.2	-.1		1	0
5991.0	5995.0	A	2.7	237	1.3	6	162	9.5	9.2	.3	.1	-.3		1	0
5993.0	5997.0	A	4.0	229	1.3	6	161	9.5	9.2	-.1	-.1	-.5		1	0
5995.0	5999.0	D	13.2	181	1.3	5	160	9.4	9.2	-.5	-1.9	-.7		1	0
5997.0	6001.0	B	7.4	218	1.2	4	160	9.4	9.1	-.1	-.4	-.9		1	0
5999.0	6003.0	A	9.2	277	1.2	3	159	9.3	9.1	1.2	.9	-1.2		1	0
6001.0	6005.0	A	9.3	284	1.3	2	158	9.3	9.0	1.5	1.1	-1.1		1	0
6003.0	6007.0	A	1.6	217	1.3	2	158	9.3	9.0	-.1	.1	-.1		1	0
6005.0	6009.0	A	3.2	204	1.3	2	157	9.3	9.0	.0	-.2	-.3		1	0
6007.0	6011.0	D	17.6	45	1.3	2	156	9.3	9.0	-.7			2.0	1	3
6009.0	6013.0	D	24.2	69	1.3	2	156	9.3	9.0	-2.1			2.1	1	3
6011.0	6015.0	B	20.9	159	1.2	3	156	9.3	9.0	-1.6			-1.7	1	3
6013.0	6017.0	A	13.4	168	1.3	3	156	9.3	9.0	-1.3	-2.0	-.4		1	0
6015.0	6019.0	A	7.0	163	1.3	3	155	9.4	9.0	-1.0	-1.0	-.1		1	0
6017.0	6021.0	A	6.5	148	1.3	3	154	9.4	9.1	-1.2	-.9	.2		1	0
6021.0	6025.0	D	12.8	20	1.3	3	153	9.3	9.1	.0			1.6	1	3
6023.0	6027.0	D	27.9	239	1.3	2	151	9.3	9.1	2.4			-2.3	1	3
6025.0	6029.0	D	13.0	175	1.4	2	148	9.4	9.1	-.9	-1.7	-.8		1	0
6027.0	6031.0	B	3.7	75	1.4	1	146	9.4	9.1	.1	.0	.7		1	0
6029.0	6033.0	A	3.9	244	1.4	359	143	9.3	8.9	.7	.3	-.5		1	0
6031.0	6035.0	A	5.1	201	1.3	358	140	9.2	8.9	.2	-.2	-.6		1	0
6033.0	6037.0	B	5.7	200	1.3	359	138	9.2	8.9	.1	-.3	-.6		1	0
6035.0	6039.0	A	9.9	250	1.3	358	137	9.3	8.9	1.1	.8	-1.3		1	0
6037.0	6041.0	A	7.0	252	1.3	358	137	9.3	8.9	.8	.6	-.9		1	0
6039.0	6043.0	A	5.4	241	1.3	358	138	9.3	8.9	.6	.3	-.7		1	0
6041.0	6045.0	A	4.6	280	1.3	0	139	9.3	8.9	.3	.7	-.3		1	0
6043.0	6047.0	A	5.1	282	1.2	2	139	9.3	9.0	.4	.8	-.4		1	0
6045.0	6049.0	A	19.8	219	1.2	2	140	9.3	9.0	1.3	-.4	-3.0		1	0
6047.0	6051.0	B	21.6	224	1.3	3	140	9.3	9.0	1.6	-.3			1	4
6049.0	6053.0	A	4.1	248	1.3	4	140	9.3	9.0	.4	.3	-.5		1	0
6051.0	6055.0	A	4.0	222	1.3	6	140	9.4	9.0	.3	.1	-.5		1	0
6053.0	6057.0	A	4.2	224	1.3	7	140	9.4	9.0	.4	.1	-.5		1	0
6055.0	6059.0	A	3.7	221	1.3	7	140	9.4	9.0	.4	.1	-.4		1	0
6057.0	6061.0	A	3.9	256	1.3	8	140	9.4	9.0	.5	.4	-.4		1	0
6059.0	6063.0	A	4.2	246	1.3	8	141	9.4	9.0	.5	.3	-.5		1	0
6061.0	6065.0	A	3.8	234	1.3	9	143	9.4	9.0	.3	.2	-.4		1	0
6063.0	6067.0	A	3.8	241	1.3	9	145	9.4	9.1	.4	.2	-.5		1	0
6065.0	6069.0	C	5.4	238	1.3	9	145	9.4	9.0		.2		-.3	1	2
6067.0	6071.0	B	7.9	246	1.3	9	145	9.3	8.9	1.1	.4	-1.1		1	0
6069.0	6073.0	A	6.0	243	1.3	9	144	9.3	8.9	.7	.3	-.8		1	0
6071.0	6075.0	B	12.2	93	1.3	9	144	9.2	8.8		-1.1		.3	1	2
6073.0	6077.0	A	6.1	261	1.3	11	143	9.3	8.8	.7	.6	-.7		1	0
6075.0	6079.0	A	6.2	266	1.3	12	143	9.2	8.8	.5	.7	-.7		1	0
6077.0	6081.0	A	10.9	241	1.3	11	142	9.2	8.9	.4	.4	-1.5		1	0
6079.0	6083.0	A	12.4	230	1.2	11	140	9.3	8.9	.3	.1	-1.8		1	0
6081.0	6085.0	A	5.2	264	1.3	10	140	9.4	8.8	.1	.6	-.5		1	0
6083.0	6087.0	A	6.5	227	1.3	10	140	9.4	8.9	-.2	.1	-.9		1	0
6085.0	6089.0	D	22.3	251	1.3	11	139	9.3	8.9	2.4	1.5			1	4

Welex does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by Welex personnel or which may appear on the log or in any other form. Any user of such data, interpretations, conversions, or recommendations agrees that Welex is not responsible except where due to gross negligence or wilful misconduct, for any loss, damages, or expenses resulting from the use thereof.

QUINTANA PETROLEUM CORP. DEADMAN CANYON FED. #2-20 SAN JUAN, UTAH4X2X15

CORRELATION INTERVAL		CORR. GRADE	DIP ANG.	DIP AZ.	DRFT ANG.	DRFT AZ.	AZ. NO.1	DIA 13	DIA 24	DISPLACEMENTS HBL	HBO	HLR	HBR	BASE ARM	M
6087.0	6091.0	D	14.9	295	1.4	12	139	9.3	8.9	2.3	2.4	-.8		1	0

Welex does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by Welex personnel or which may appear on the log or in any other form. Any user of such data, interpretations, conversions, or recommendations agrees that Welex is not responsible, except where due to gross negligence or wilful misconduct, for any loss, damages, or expenses resulting from the use thereof.

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-57469

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: DEADMAN (UPPER ISMAY)

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: DEADMAN CYN FED 2-20

2. NAME OF OPERATOR: ROBERT L BAYLESS PRODUCER, LLC

9. API NUMBER: 43037313030000

3. ADDRESS OF OPERATOR: P.O. Box 168 , Farmington, NM, 87499

PHONE NUMBER: 505 564-7802 Ext

9. FIELD and POOL or WILDCAT: DEADMAN-ISMY

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0500 FSL 0780 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 20 Township: 37.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 10/31/2016	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	✓ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Accepted by the Utah Division of Oil, Gas and Mining

Date: December 15, 2016

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Helen Trujillo	505 326-2659	Office Manager

SIGNATURE	DATE
N/A	10/31/2016

RECEIVED: Oct. 31, 2016

Robert L Bayless, Producer LLC

Plug And Abandonment Procedure

Deadman Canyon Federal 2-20

500' FSL & 780' FEL, Section 20, T37S, R24E

San Juan County, NM / API 43-037-31303

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM safety and environmental regulations. Test rig anchors prior to moving in rig if not rigged to base beam.

2. Check casing, tubing, and bradenhead pressures.

3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure well is dead or on a vacuum.

4. ND wellhead and NU BOP. Function test BOP.

5. TOOH with 2-3/8" tubing string and tally as follows:
   - KB 12'
   - 2-7/8" 6.5# J-55 EUE 156 jts landed @ 5073'
   - seating nipple 2.25 ID 1'
   - 2-3/8" x 2-7/8" x 5-1/2" Mountain States Model R DG Packer 7.27'
   - 24 jts 2-7/8" 6.5# J55 EUE 780.5'
   - 2-7/8" 6/5# Mule Shoe 10'
   - Talley Total: 5883.77'

6. P/U 5-1/2" bit or casing scraper on 2-7/8" workstring and round trip as deep as possible above top perforation at 5878'.

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7. P/U cement retainer on tubing and set at 5828'. Pressure test tubing to 1000 psi. Sting out of retainer. Load hole and pressure test casing to 800 psi. If casing does not test, then spot or tag subsequent plugs as appropriate.

8. Rig up to pump cement down tubing. Pump water to establish rate down tubing.

NOTE: All Plugs Include 100% excess outside casing and 50% Excess inside casing

9. Plug 1**(Salt, Akah, Desert Creek, Gothic Shale, Lower Ismay, Hovenweep Shale, Upper Ismay Formation Tops 5828'-5677', 30 Sacks Class G Cement)**:

   Mix 30 sx Class G cement and spot a balanced plug inside casing to cover Salt, Akah, Desert Creek, Gothic Shale, Lower Ismay, Hovenweep Shale, Upper Ismay formation tops.

10. Plug 2 **(Hermosa Formation Top 4642'-4592', 42 Sacks Class G Cement)**:

    RIH and perforate 3 squeeze holes at 4692'. Establish injection rate into squeeze holes. TIH with 5 ½" CR and set at 4642'. Mix 47 sx Class G cement. Squeeze 35 sx outside casing leaving 12 sx inside casing to cover Hermosa formation top.

11. Plug 3 (**Surface Casing Shoe 2013'-1913', 52 Sacks Class G Cement)**

    RIH and perforate 3 squeeze holes at 2063'. Establish injection rate into squeeze holes. TIH with 5 ½" CR and set at 2013'. Mix 52 sx Class G cement. Squeeze 35 sx outside casing leaving 17 sx inside casing to cover Surface Casing Shoe.

12. Plug 4 (**Chinle Formation Top 1844'-1794', 52 Sacks Class G Cement)**

    RIH and perforate 3 squeeze holes at 1894'. Establish injection rate into squeeze holes. TIH with 5 ½" CR and set at 1844'. Mix 47 sx Class G cement.

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Squeeze 35 sx outside casing leaving 12 sx inside casing to cover Chinle formation top.

13. Plug 5 (**Surface Shoe and Surface 100'-surface, 60 Sacks Class G Cement)**

    Perforate 3 squeeze holes at 100'. ROOH and RD wireline. **Observe well for 30 minutes per BLM regulations.** RU pump, close blind rams and establish circulation out bradenhead with water. Circulate BH clean. Mix 60 sx Class G cement and pump down casing until good cement returns to surface out BH valve. Shut in well and WOC.

14. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and restore location per BLM stipulations.

RECEIVED: Oct. 31, 2016