

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG  ELECTRIC LOGS  FILE  WATER SANDS LOCATION INSPECTED SUB REPORT/abd

DATE FILED 11-28-86

LAND FEE & PATENTED STATE LEASE NO PUBLIC LEASE NO U-57469 INDIAN

DRILLING APPROVED 12-3-86

SPUDDED IN 12-14-86

COMPLETED 1-24-87 01 PUT TO PRODUCING 5140 Prod facilities

INITIAL PRODUCTION: 450 BOPD 250MCF 0 BWPD

GRAVITY A.P.I. 47.1

GOR 5556:1

PRODUCING ZONES 5800-12' 15m4

TOTAL DEPTH 6149'

WELL ELEVATION 5565' GR

DATE ABANDONED

FIELD WILDCAT DEADMAN CANYON 4/88

UNIT

COUNTY SAN JUAN

WELL NO DEADMAN CANYON FEDERAL 1-20 API #43-037-31293

LOCATION 2180' FSL FT FROM (N) (S) LINE. 2030' FEL FT FROM (E) (W) LINE NW SE 14 - 14 SEC 20

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
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37S	24E	20	QUINTANA PETROLEUM CORP.				
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GEOLOGIC TOPS:

QUATERNARY	Star Point	Chinle	1847	Molas
Alluvium	Wahweap	Shinarump	2542	Manning Canyon
Lake beds	Masuk	Moenkopi		Mississippian
Pleistocene	Colorado	Sinbad		Humbug
Lake beds	Sego	PERMIAN		Brazer
TERTIARY	Buck Tongue	Karabab		Pilot Shale
Pliocene	Castlegate	Coconino		Madison
Salt Lake	Mancos	Cutler		Leadville
Oligocene	Upper	Hoskinnini		Redwall
Norwood	Middle	DeChelly		DEVONIAN
Eocene	Lower	White Rim		Upper
Duchesne River	Emery	Organ Rock		Middle
Uinta	Blue Gate	Cedar Mesa		Lower
Bridger	Ferron	Halgate Tongue		Ouray
Green River	Frontier	Phosphoria		Elbert
	Dakota	Park City	Surface	McCracken
	Burro Canyon	Rico (Goodridge)		Aneth
	Cedar Mountain	Supai		Simonson Dolomite
	Buckhorn	Wolfcamp		Sevy Dolomite
	JURASSIC	CARBONIFEROUS		North Point
Wasatch	Morrison	Pennsylvanian		SILURIAN
Stone Cabin	Salt Wash	Oquirrh		Laketown Dolomite
Coitton	San Rafael Gr.	Weber		ORDOVICIAN
Flagstaff	Summerville	Morgan		Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	4126	Pogonip Limestone
Almy	Curtis	UPPERISM 4	5748	CAMBRIAN
Paleocene	Entrada	<del>Parsons</del> HUEWEEEP	5832	Lynch
Current Creek	Moab Tongue	Ismay	5957	Bowman
North Horn	Carmel	<del>Dogart Creek</del> GOTHIC	6002	Tapeats
CRETACEOUS	Glen Canyon Gr.	<del>Akahr</del> DSCR	6028	Ophir
Montana	Navajo	<del>Barlow Creek</del> CMYRK	6108	Tintic
Mesaverde	Kayenta	AKAH	6123	PRE-CAMBRIAN
Price River	Wingate	<del>Gano Creek</del> JALI	6147	
Blackhawk	TRIASSIC			

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

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.)  
 At surface 2180' FSL & 2030' FEL  
 At proposed prod. zone NW SE Section 20  
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 10.5 miles southeast of Blanding, Utah

16. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2030'

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A

19. PROPOSED DEPTH 6150'

17. NO. OF ACRES IN LEASE 1882.54

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5565' GR

22. APPROX. DATE WORK WILL START\* December 1, 1986

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.  
 #1-20

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

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

12. COUNTY OR PARISH 13. STATE  
 San Juan Utah

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'	660 sxs Lite & 200 sxs "B"
5 1/2"	8 3/4"	15.5#	6150'	275 sxs 50/50 Poz

Quintana Petroleum Corporation proposes to drill a well to 6150' 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**  
 NOV 28 1986

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 *J. Williams* TITLE Production Technician DATE 11/24/86

(This space for Federal or State office use)

PERMIT NO. 43-037-31293 APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

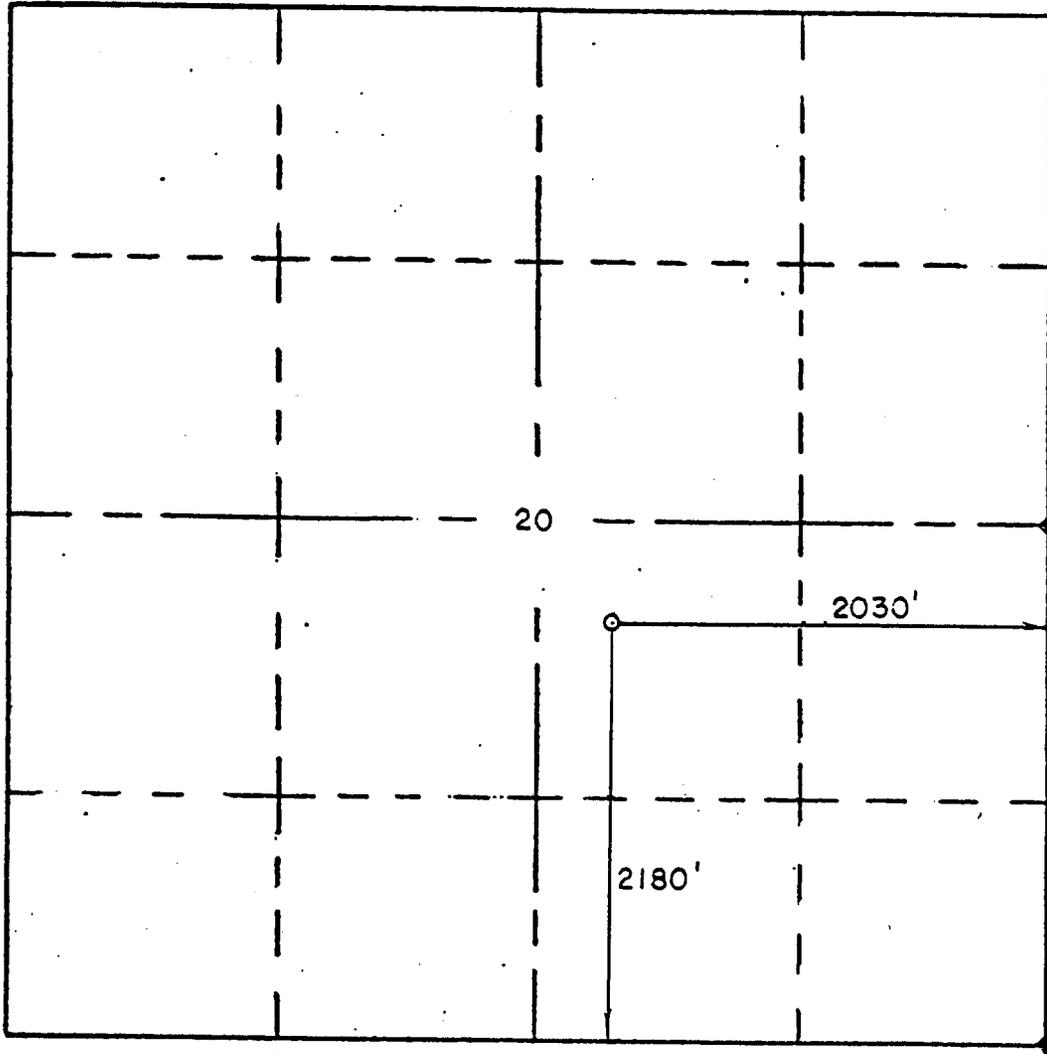
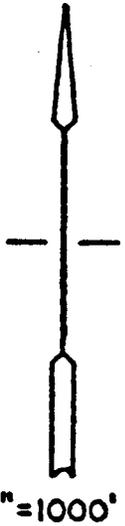
APPROVED BY THE STATE  
 OF UTAH DIVISION OF  
 OIL, GAS, AND MINING

DATE 12-3-86  
 BY John R. Bue  
 WELL SPACING: 302

\*See Instructions On Reverse

WELL LOCATION PLAT

RECEIVED NOV 13 1986



WELL LOCATION DESCRIPTION:

QUINTANA PETROLEUM  
Deadman Canyon #1-20  
2180' FSL & 2030' FEL  
Section 20, T.37 S., R.24 E., SLM  
San Juan County, Utah  
5565' grd. elevation  
References: 2070' FSL & 2010' FEL, 5597' elevation

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

11-10-'86

REGISTERED AND SURVEYOR  
No. 5705  
GERALD G. HUDDLESTON  
*Gerald G. Huddleston*  
Gerald G. Huddleston, LS  
STATE OF UTAH

# DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Monticello, Utah 84535  
SERIAL NO.: U-57469

and hereby designates

NAME: Quintana Petroleum Corporation  
ADDRESS: 1050 - 17th Street, Suite 400  
Denver, CO 80265

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

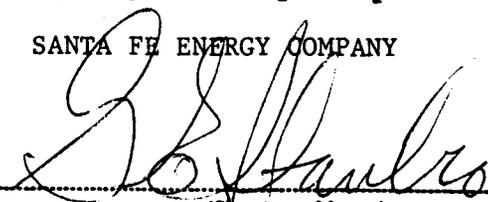
Township 37 South - Range 24 East  
Section 20: All  
Section 29: N/2

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

SANTA FE ENERGY COMPANY

  
\_\_\_\_\_  
(Signature of lessee)

G. E. Stanbro  
District Exploration Manager  
1616 Glenarm Place, #2600, Denver, CO 80202

(Address)

NOV 17 1986  
(Date)

Quintana Petroleum Corporation  
Deadman Canyon Federal #1-20  
2180' FSL & 2030' FEL  
NW SE Section 20, T37S-R24E  
San Juan County, Utah

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

DEADMAN CANYON FEDERAL #1-20  
NW SE Section 20, T37S-R24E  
San Juan County, Utah

All leases 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. A copy of these conditions will be furnished to the field representative to ensure compliance.

8 POINT DRILLING PROGRAM

1. Estimated tops of important geologic markers:

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Dakota	Surface	---
Navajo	1004'	+4594'
Wingate	1577'	+4021'
Chinle	1847'	+3751'
Shinarump	2542'	+3056'
Hermosa	4686'	+ 912'
Upper Ismay	5748'	- 150'
Hovenweep Shale	5932'	- 334'
Lower Ismay	5957'	- 359'
Gothic Shale	6002'	- 404'
Desert Creek	6028'	- 430'
Chimney Rock Shale	6108'	- 510'
Akah	6123'	- 525'

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Estimated depths at which water, oil, gas or other mineral-bearing zones are expected to be encountered:

<u>Substance</u>	<u>Formation</u>	<u>Anticipated Depth</u>
Oil & Gas	Upper Ismay	5748'
Oil & Gas	Lower Ismay	5957'
Oil & Gas	Desert Creek	6028'

Quintana Petroleum Corporation plans to protect all surface fresh water zones by running a sufficient amount of surface casing. All oil and gas shows will be tested to determine commercial potential.

3. Pressure control equipment: 10" 3000# BOP (see BOPE Schematic).

BOP systems will be consistent with API RP 53. Pressure tests will be conducted prior to drilling out from under surface and operational checks will be made daily thereafter. Rams will be tested to rated working pressure or 70% of the minimum internal yield of the casing. BOP's will be tested prior to drill out each casing shoe and at least every 30 days.

4. A. Casing - proposed program:

<u>Purpose</u>	<u>Size</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>
Surface	9 5/8"	0-2000'	12 1/4"	36#	K-55	ST&C New
Production	5 1/2"	0-6150'	8 3/4"	15.5#	K-55	LT&C New

All casing strings will be tested to 0.2 psi/ft. or 1000 psi, whichever is greater, prior to drilling out.

- B. Cement - proposed program:

<u>Surface</u>	-	660 sxs Lite with 2% CaCl <sub>2</sub> and 1/4# flocele followed by 200 sxs Class "B" with 2% CaCl <sub>2</sub> (or sufficient volume to circulate cement to surface).
<u>Production</u>	-	275 sxs 50/50 Poz with 18% salt, 0.75% Halad 9, 0.5% CFR-2 (of sufficient volume to cover all zones of interest).

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NW SE Section 20, T37S-R24E  
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C. Auxiliary equipment:

1. Kelly cock valve with safety valve for drill pipe and drill collars on rig floor.
2. Mud monitoring equipment will consist of a flow sensor installed on the flow line at base of surface casing.

5. Drilling fluids:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Vis.</u>	<u>FL</u>	<u>pH</u>
0-2000'	Gel/Lime	8.5-9.0	35-50	N/C	9.0
2000-5000'	Gel/Lime	8.6-9.2	30-35	N/C	9.0
5000'-TD	Lt. Disp.	8.6-11.5	35-45	8-12	9.5

There will be sufficient mud on location to control a blowout should one occur.

6. Testing, logging and coring programs:

A. Drill stem tests are anticipated in the following intervals:

Ismay +/-5748' and +/-5957'  
Desert Creek +/-6028'

B. Logging program:

Dual Induction-SFL TD - BSC  
BHC Sonic-GR TD - BSC  
FDC-CNL-GR Over selected zones.

C. No cores will be run.

Whether the well is completed as a dry hole or as a producer, "Well Completion and 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, 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 will be submitted when requested by the District Manager.

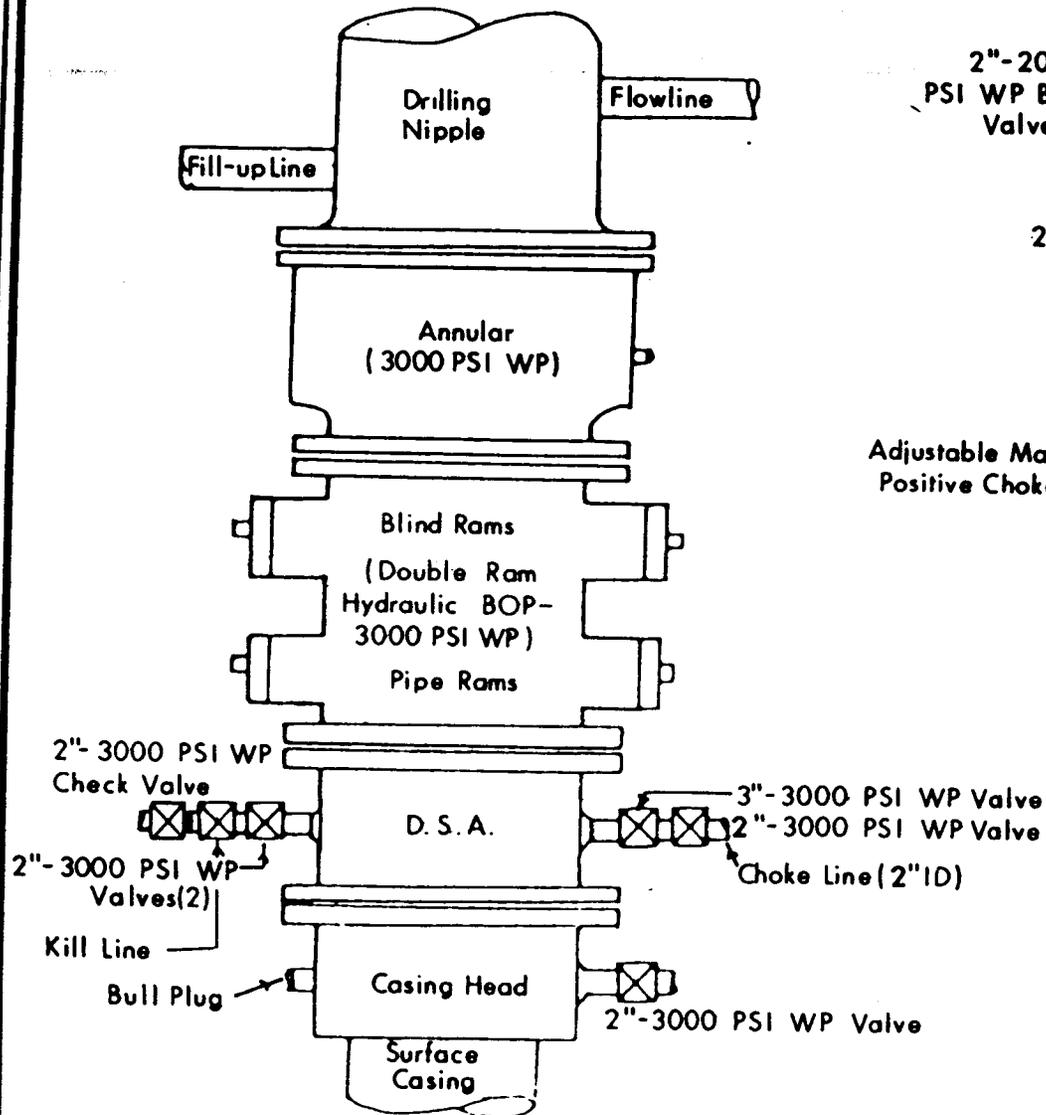
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7. Expected bottom hole pressure, abnormal conditions or potential hazards:
  - A. The expected bottom hole pressure is 3400 psi.
  - B. No abnormal pressures, temperatures or potential hazards are anticipated.
8. Other information:
  - A. Anticipated spud date: December 1, 1986.  
Drilling operations expected to cover 16 days.  
If productive, 7 days will be required to complete.
  - B. The San Juan Resource Area (801/587-2141) will be contacted by the Operator 48 hours prior to beginning any dirt work on this location.
  - C. 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.
  - D. The spud date will be reported orally to the San Juan Area Manager a minimum of 24 hours prior to spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours after spudding, reporting the spud date and time. The Sundry will be sent to the District Manager. If the spudding is on a weekend or holiday, the Sundry will be submitted on the following regular work day.
  - E. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "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 BLM District Office, P. O. Box 970, Moab, Utah 84532.
  - F. 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.

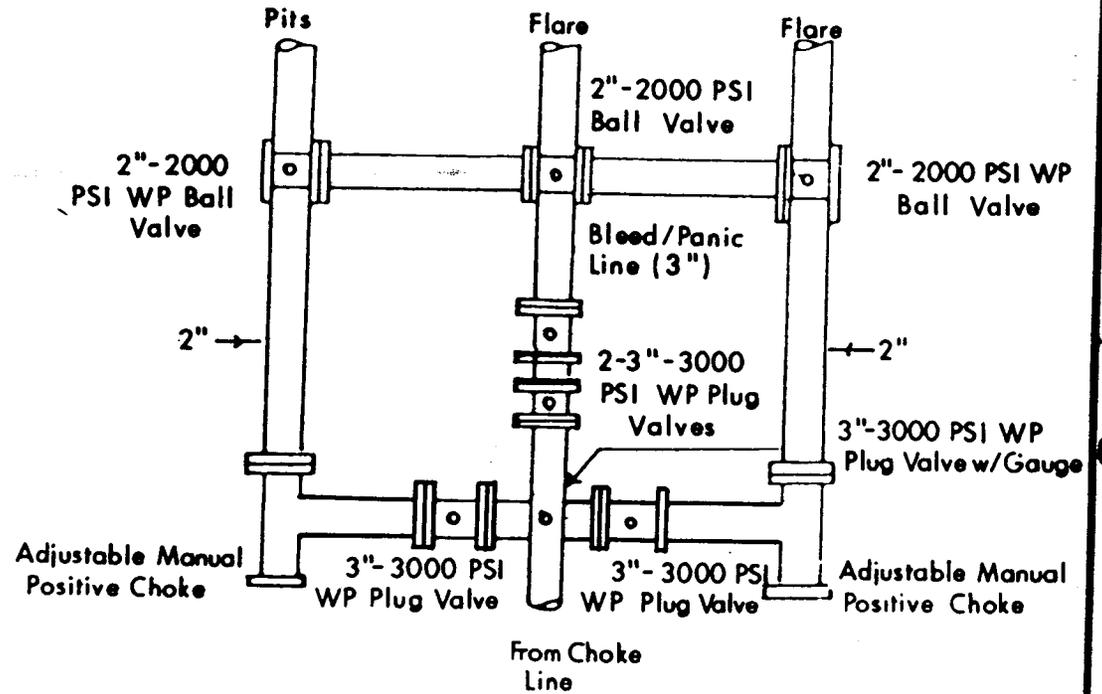
Quintana Petroleum Corporation  
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San Juan County, Utah

- G. If a replacement rig is planned for completion operations, a Sundry Notice 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.
- H. If the well is successfully completed for production, then the District Manager will be notified within five business days when the well is placed in a producing status. Such notification will be by telegram or other written communication or on a Sundry Notice, or orally to be followed by a letter or Sundry Notice.
- I. 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.
- J. 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.
- K. 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.
- L. 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: Federal well number, location by quarter-quarter section, township and range, lease number.
- M. 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.

**BOP SCHEMATIC**  
3000 PSI WORKING PRESSURE



**PLAN VIEW CHOKE MANIFOLD**



The hydraulic closing unit will be located more than 30' from the wellhead. Choke & bleed/panic lines will go to the pit and flare. All connections in choke line and manifold will be flanged or welded. All flanges should be ring joint gasket type. All turns in lines shall be constructed using targeted 90° tees or block ells. All lines shall be anchored.

**Quintana**

Denver, Colorado

**BOPE SCHEMATIC**

Quintana Petroleum Corporation  
 Deadman Canyon Federal #1-20  
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 NW SE Section 20, T37S-R24E  
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### 13 POINT SURFACE USE PLAN

#### 1. Existing Roads

- A. The wellsite is located 10.5 miles southeast of Blanding, Utah.
- B. Directions to the location from Blanding are as follows:  
  
Proceed south 1-1/4 mile on Hwy 47; turn east, proceed 1 mile on County road; turn south and proceed approximately 14-1/2 miles in a south and east direction towards Perkins Ranch; turn north on unimproved dirt road and proceed 2-3/4 mile; turn right on unimproved dirt road; proceed east approximately one mile and turn north on new access road; proceed northeast approximately 3/4 mile to location (see Map #1).
- C. The roads in the area are primarily County and unimproved dirt roads (see Map #1).
- D. At that point in Section 30 where the County Road crosses the Unocal pipeline, Quintana will put 3' of cover over the line (see Map #2).
- E. Improvement to the existing access will not be necessary.
- F. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- G. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.
- H. An encroachment permit will be obtained by the dirt contractor from the San Juan County Road Department (801)587-2231, ext. 43.

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2. Planned Access Roads

- A. The last mile will be new access. The road will be flat bladed initially during construction and upgraded if production is established. It was centerline flagged at the time of staking. See Map #2.
- B. The maximum total disturbed width will be 30 feet for one mile.
- C. Maximum grade will be +/-10%.
- D. The maximum cut on location is 30 feet. The maximum fill is 10 feet.
- E. Turnouts will be constructed as required. One 18" culvert will be necessary. Gravel may be required in some spots to serve as low water crossings.
- F. If access is utilized during wet winter weather, road surfacing may be required to prevent road maintenance problems.
- G. Each fence which is crossed by the road will be braced and tied off before cutting to prevent slackening of wire. BLM approved gates or cattleguards will be installed as required. If road construction cuts through natural topography which serves as a livestock barrier, a fence shall be constructed.
- H. 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.
- I. 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.
- J. 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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- K. If there is snow on the ground when construction begins, it will be removed before the topsoil is disturbed and piled downhill from the topsoil stockpile location.
3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location.
- A. There are no water wells, injection or disposal wells, producing wells or drilling wells within a 1-mile radius of this location (see Map #3).
4. Location of Existing and/or Proposed Facilities if Well is Productive.
- A. All permanent structures (on site for 6 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. Facilities required to comply with OSHA will be excluded.
- B. Production facilities (including dikes) will be placed on the cut portion of the location.
- C. If a tank battery is constructed it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery. See attached Exhibit "B" for placement of tank battery.
- D. All loading lines will be placed inside the berm surrounding the tank battery.
- E. All access roads will be upgraded and maintained as necessary to prevent erosion and accomodate year-round traffic.
- F. Any necessary pits will be properly fenced to prevent any wildlife entry. The production pit will be flagged overhead.
- G. Produced waste water will be confined to an unlined pit for a period not to exceed 90 days after initial production. During that 90 day period an application for approval of a permanent disposal method and location (NTL-2B), along with the required water analysis will be submitted.
- H. 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.

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- I. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.
- J. 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.
- K. 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.
- C. No water wells are to be drilled.
- D. Use of water for this operation will be 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. Construction Materials

- A. Road surfacing material will be obtained from a local established source. Pad construction material will be native.
- B. Any materials to be used which are under BLM jurisdiction shall be approved in advance, as per CFR 3610.2-3. Call Rich McClure (801)587-2141.

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7. Methods of Handling Waste Disposal

- A. The reserve pit will be lined using native clay from the location. 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 6 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. Produced waste water will be confined to an unlined 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).
- E. If a chemical porta-toilet is not furnished with the drilling rig, a sewage borehole will be used and its contents covered with a minimum of 6 feet of fill upon well completion.
- F. The produced fluids will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.
- G. The reserve pit and drilling fluids contained in the pit will be allowed to dry. The pit will then be backfilled.

8. Ancillary Facilities

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

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9. Wellsite Layouts

- A. See Diagram #2 for rig layout, Diagram #3 for cross section of drill pad, and Diagram #4 for cuts and fills.
- B. The location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities and soil stockpiles is shown on Diagrams #2 and #4. The location will be laid out and constructed as discussed during the predrill conference.
- C. The top 3 inches of soil material will be removed from the location and stockpiled on the northeast side. Topsoil along the access will be reserved in place.
- D. Access to the well pad will be from the east.

10. Plans for Reclamation of the Surface

- A. Immediately upon completion of drilling, all trash and debris will be collected from the location and surrounding area. It will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- B. During reclamation of the site, the operator will push fill material into the cuts and up over the backslope to approximate the original topography. This includes removing all berms and refilling all cuts. No depressions will be left that trap water or form ponds.
- C. 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.
- D. The reserve pit, when completely dry, will be backfilled and the entire location will be reshaped to as near as possible its original contour.
- E. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.

Quintana Petroleum Corporation  
Deadman Canyon Federal #1-20  
2180' FSL & 2020' FEL  
NW SE Section 20, T37S-R24E  
San Juan County, Utah

F. Water bars will be built as follows to control erosion:

<u>Grade</u>	<u>Spacing</u>
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.

2 lbs/acre Indian ricegrass  
4 lbs/acre Western wheatgrass  
2 lbs/acre Fourwing saltbush

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

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. Surface and Mineral Ownership

All surface, mineral and access ownership is Federal.

12. Other Information

A. There will be no change from the proposed drilling 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.

Quintana Petroleum Corporation  
Deadman Canyon Federal #1-20  
2180' FSL & 2030' FEL  
NW SE Section 20, T37S-R24E  
San Juan County, Utah

- 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.
- 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 done by LaPlata Archeological Consultants. No significant cultural resources were found and clearance is recommended. A copy of this report will be submitted directly by LaPlata Archeological Consultants.
- G. The contact person with the District Office is:
- Greg Noble (801)259-6111  
P. O. Box 970  
Moab, Utah 84532
- The contact person with the Resource Area Manager is:
- Rich McClure (801)587-2141  
P. O. Box 7  
Monticello, Utah 84535
- H. Prior to cementing surface casing, notify:
- Mike Wade (801)587-2141 or (801)587-2026

Quintana Petroleum Corporation  
Deadman Canyon Federal #1-20  
2180' FSL & 2030' FEL  
NW SE Section 20, T37SD-R24E  
San Juan County, Utah

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

Representatives:

Quintana Petroleum Corporation  
1050 - 17th Street, Suite 400  
Denver, Colorado 80265  
(303) 628-9211

Mr. John Wessels (303) 987-0540 (home)  
Mr. Scott Kimbrough (303) 969-9468 (home)

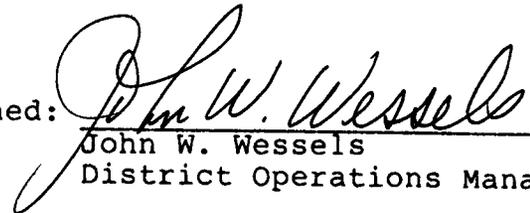
Certification:

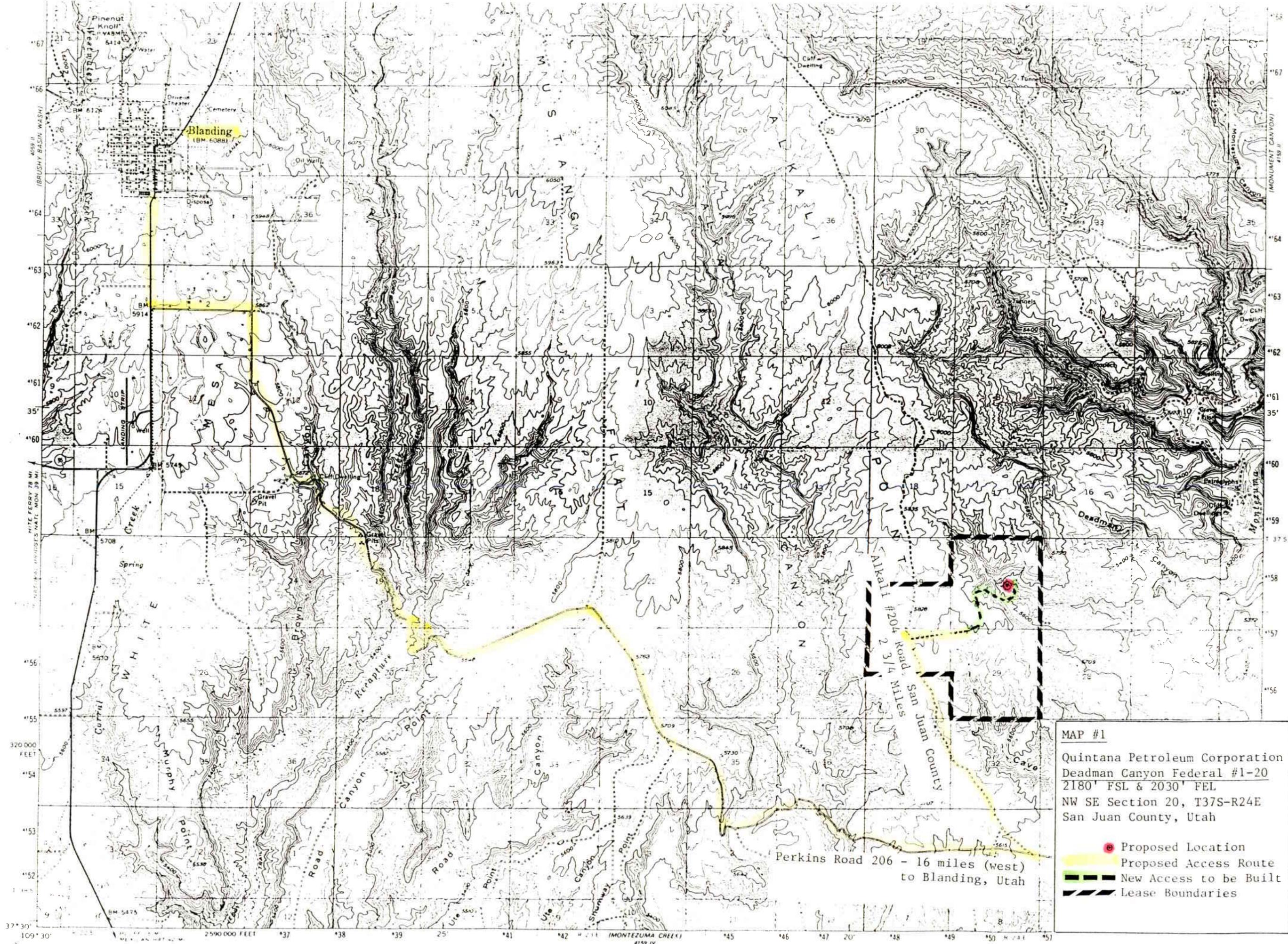
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated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

Date: \_\_\_\_\_

11/24/86

Signed: \_\_\_\_\_

  
John W. Wessels  
District Operations Manager

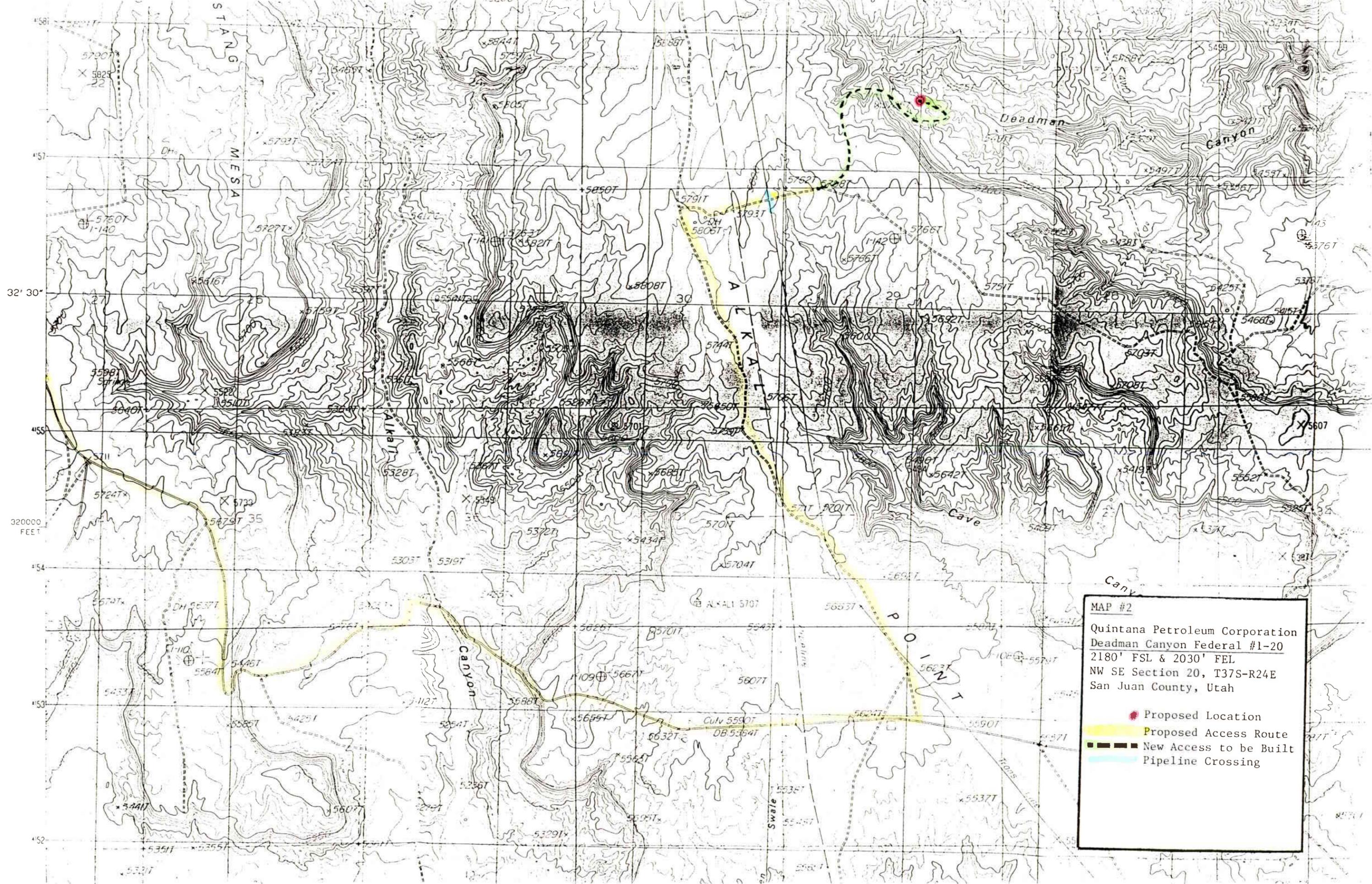


**MAP #1**

Quintana Petroleum Corporation  
 Deadman Canyon Federal #1-20  
 2180' FSL & 2030' FEL  
 NW SE Section 20, T37S-R24E  
 San Juan County, Utah

- Proposed Location
- Proposed Access Route
- New Access to be Built
- Lease Boundaries

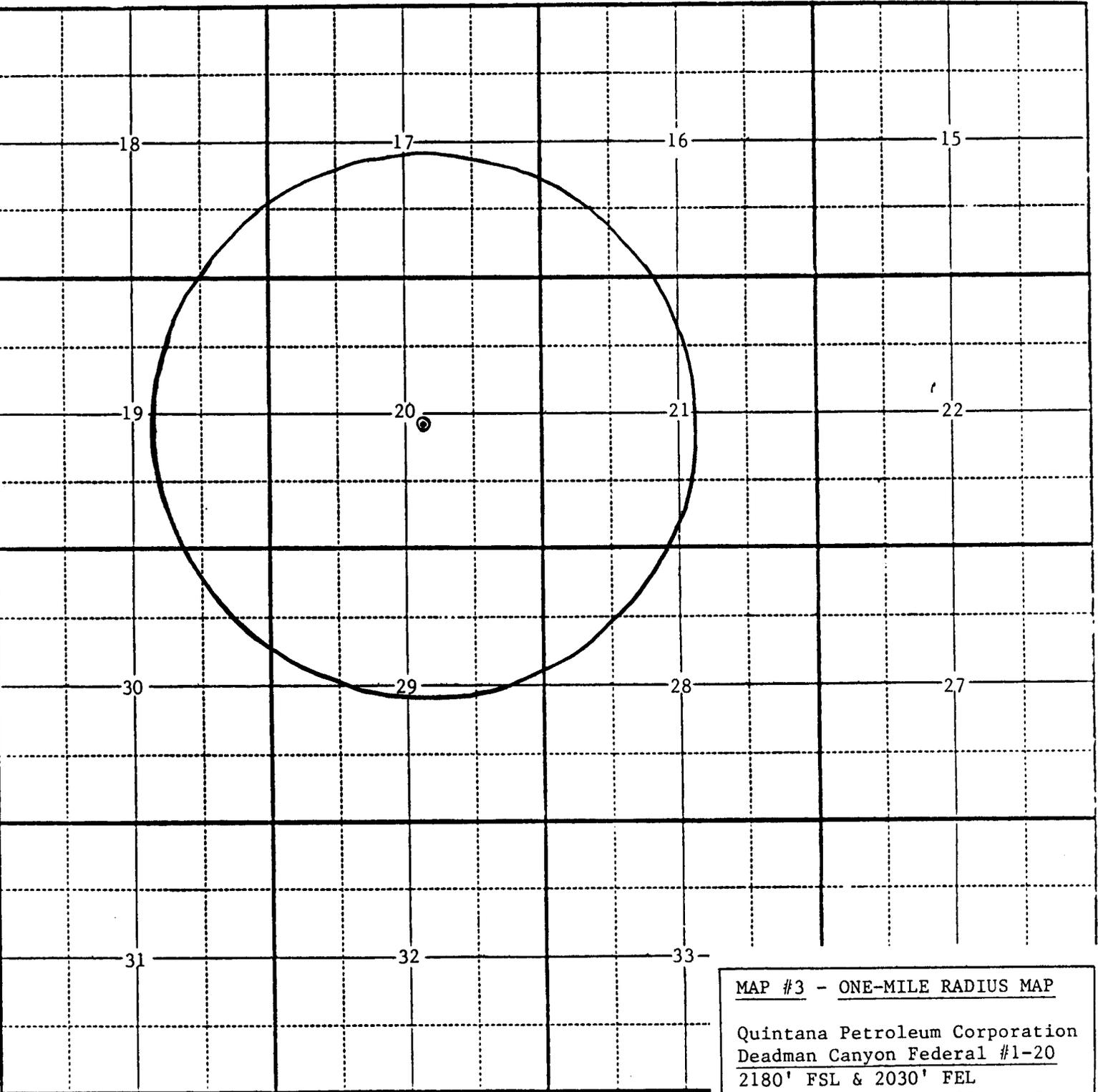
Perkins Road 206 - 16 miles (west) to Blanding, Utah



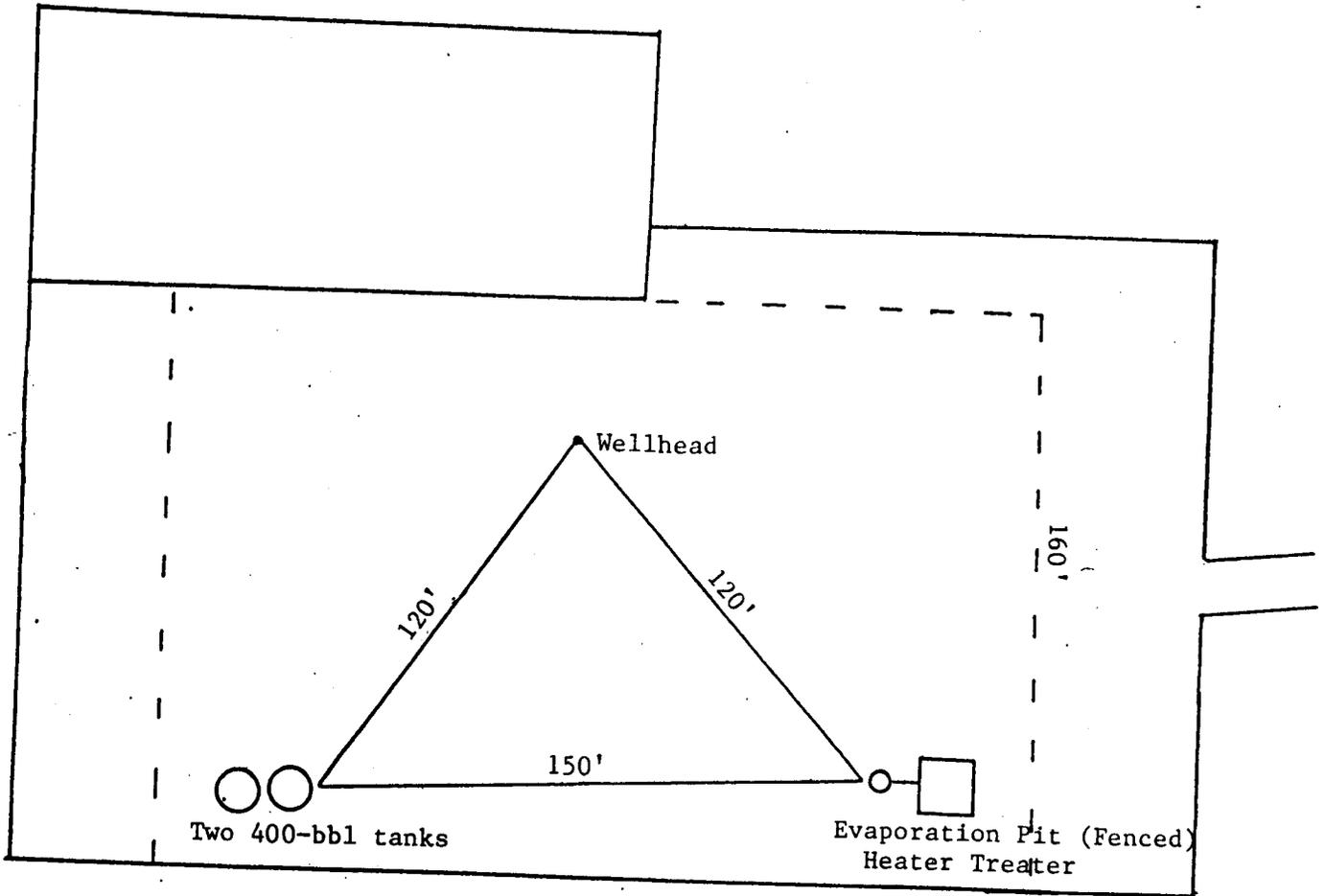
**MAP #2**  
Quintana Petroleum Corporation  
Deadman Canyon Federal #1-20  
2180' FSL & 2030' FEL  
NW SE Section 20, T37S-R24E  
San Juan County, Utah

- Proposed Location
- Proposed Access Route
- - - New Access to be Built
- Pipeline Crossing

Township 24 E Range 37S County San Juan State Utah



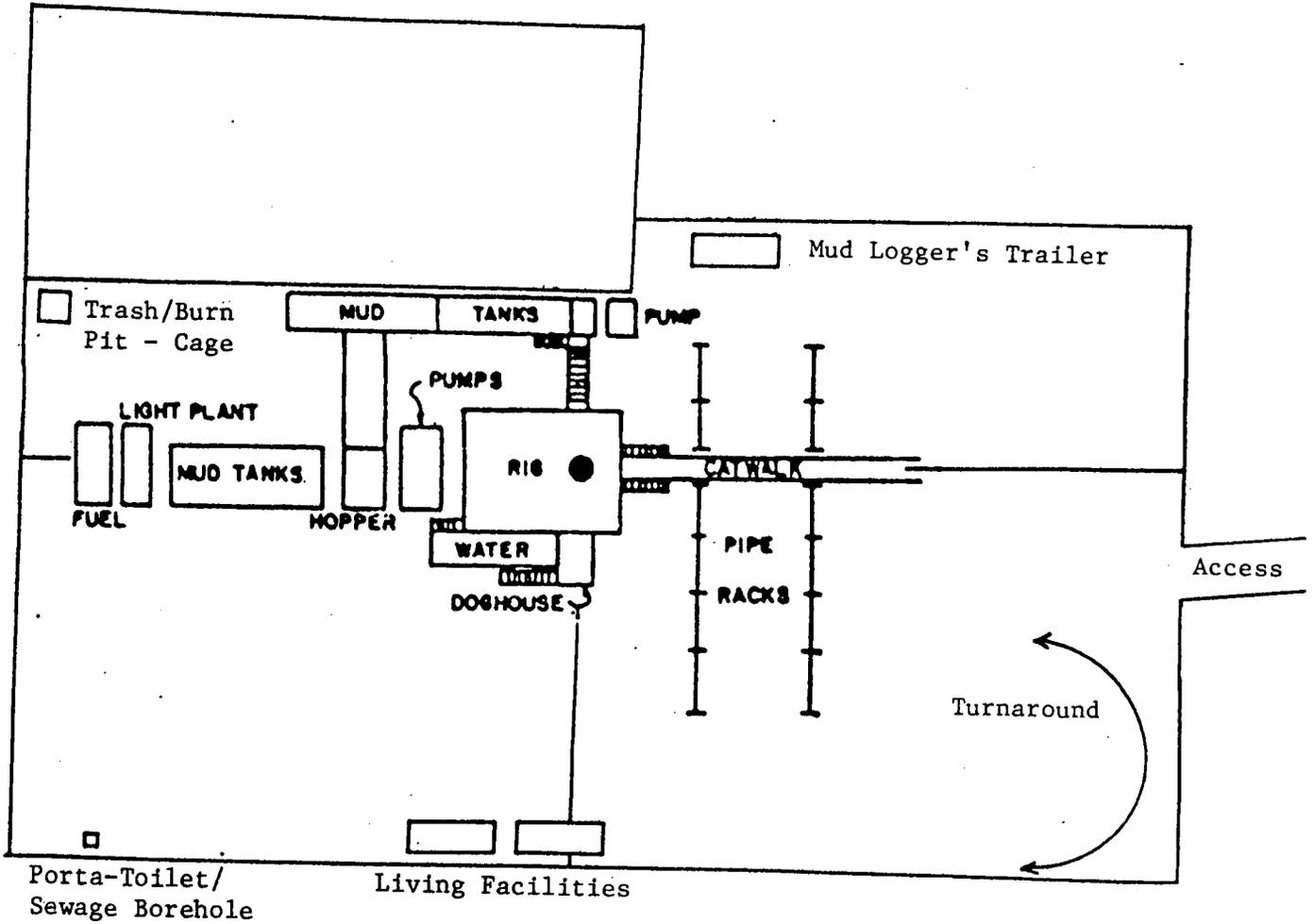
MAP #3 - ONE-MILE RADIUS MAP  
Quintana Petroleum Corporation  
Deadman Canyon Federal #1-20  
2180' FSL & 2030' FEL  
NW SE Section 20, T37S-R24E  
San Juan County, Utah



Scale: 1" = 50'

DIAGRAM #1 - PRODUCTION FACILITY  
LAYOUT

Quintana Petroleum Corporation  
 Deadman Canyon Federal #1-20  
 2180' FSL & 2030' FEL  
 NW SE Section 20, T37S-R24E  
 San Juan County, Utah



Scale: 1" = 50'

DIAGRAM #2 - RIG LAYOUT

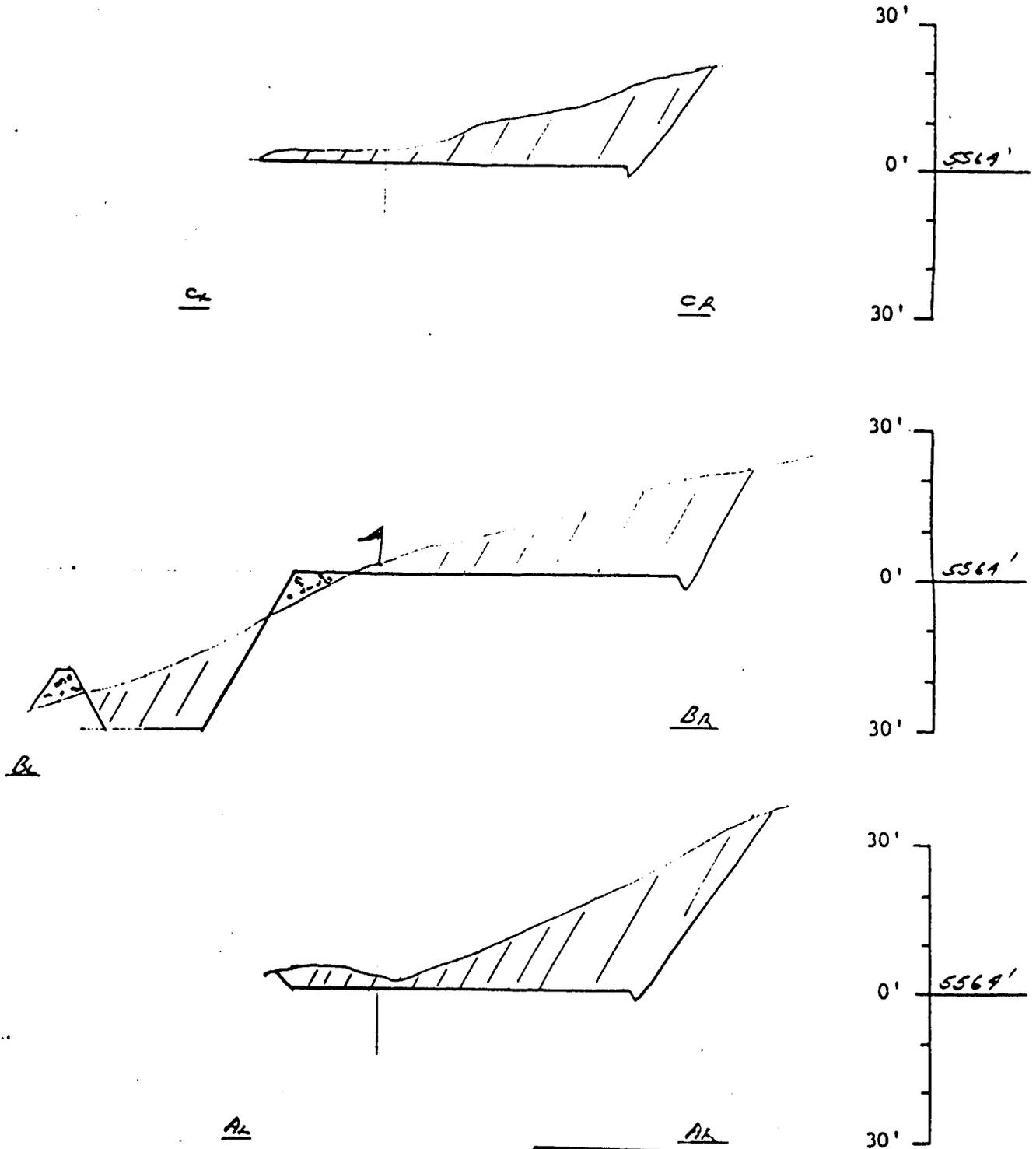
Quintana Petroleum Corporation  
 Deadman Canyon Federal #1-20  
 2180' FSL & 2030' FEL  
 NW SE Section 20, T37S-R24E  
 San Juan County, Utah

WELL PAD CROSS-SECTION

Cut */////*  
 Fill *•••••*

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

1-20 Deadman Canyon



**DIAGRAM #3 - WELL PAD CROSS-SECTION**  
 Quintana Petroleum Corporation  
 Deadman Canyon Federal #1-20  
 2180' FSL & 2030' FEL  
 NW SE Section 20, T37S-R24E  
 San Juan County, Utah

WELL PAD PLAN VIEW

1-20 Deadman Canyon

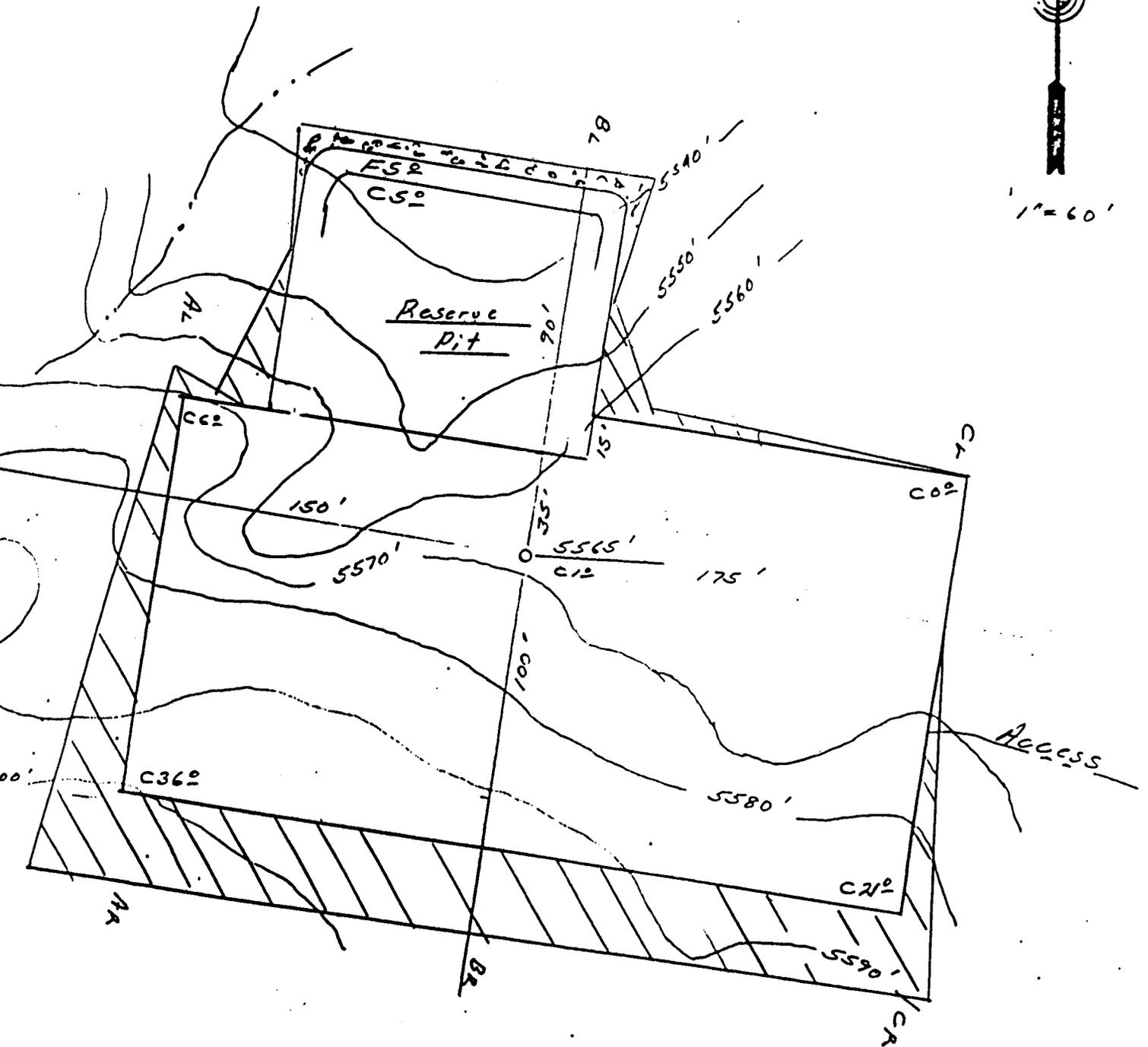


DIAGRAM #4 - WELL PAD PLAN VIEW  
Quintana Petroleum Corporation  
Deadman Canyon Federal #1-20  
2180' FSL & 2030' FEL  
NW SE Section 20, T37S-R24E  
San Juan County, Utah



La Plata Archeological Consultants, Inc.

P.O. Box 783  
Dolores, Colorado 81323  
303-882-4933

Novemebr 13, 1986

Mr. John Wessel  
Quintana Petroleum Corp.  
Suite 400, Prudential Plaza  
1050 17th Street  
Denver, Colorado 80265

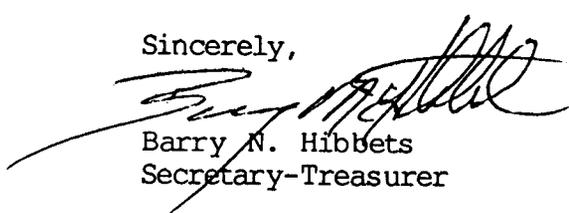
RECEIVED NOV 20 1986

Mr. Wessel:

Please find enclosed the archeological survey report for your #1-20 Deadman Canyon Canyon well site and access road located on BLM land in southeastern San Juan County, Utah. Two archeological sites were discovered during the investigation. Providing that both sites are strictly avoided by the development, archeological clearance for the project has been recommended.

Also enclosed is an invoice for the field work and report preparation phases of the project. We hope to be of future service.

Sincerely,



Barry N. Hibbets  
Secretary-Treasurer

BNH/mm

encl.

ARCHEOLOGICAL SURVEY OF  
QUINTANA PETROLEUM'S DEADMAN CANYON #1-20  
WELL SITE AND ACCESS ROAD,  
SAN JUAN COUNTY, UTAH

LAC REPORT 8669

by  
Barry N. Hibbets

LA PLATA ARCHEOLOGICAL CONSULTANTS, INC.  
P.O. BOX 783  
DOLORES, COLORADO 81323  
(303) 882-4933

NOVEMBER 13, 1986

Federal Antiquities Permit  
85UT57626  
Utah State Permit  
U86LA-672b

Prepared For:  
Quintana Petroleum Corp.  
Suite 400, Prudential Plaza  
1050 17th Street  
Denver, Colorado 80265

## ABSTRACT

In October and November, 1986 an archeological survey of Quintana petroleum's Deadman Canyon #1-20 well site and access road was conducted by personnel of La Plata Archeological Consultants, Inc. The project area is located in San Juan County, Utah on land administered by the Bureau of Land Management. The well was originally staked by Santa Fe Energy. Two archeological sites were found: one necessitating a slight relocation of the well pad in order to avoid it, and the other along the access corridor. Both of the sites will be avoided by the project and not adversely affected. Provided that both sites are avoided by the project archeological clearance is recommended.

## INTRODUCTION

The archeological survey of Quintana Petroleum's Deadman Canyon #1-20 well site and access road was conducted on October 30 and November 10, 1986 by Barry Hibbets of La Plata Archeological Consultants, Inc. The well was originally staked by Santa Fe Energy, but Quintana subsequently assumed the project. The survey was originally requested by Mr. Jack White of Santa Fe.

The archeological survey was conducted during the pre-drill inspection. Those present during the pre-drill included Mr. White, Rich McClure (BLM), Dean McClellan (Whitehorse Construction), Lowell Larson (Atkinson Construction), Howard Hughes (Hughes Construction), Norman Utley (Utley Construction), Gerald Huddleston (land surveyor), and Hibbets (LAC).

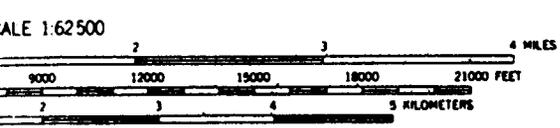
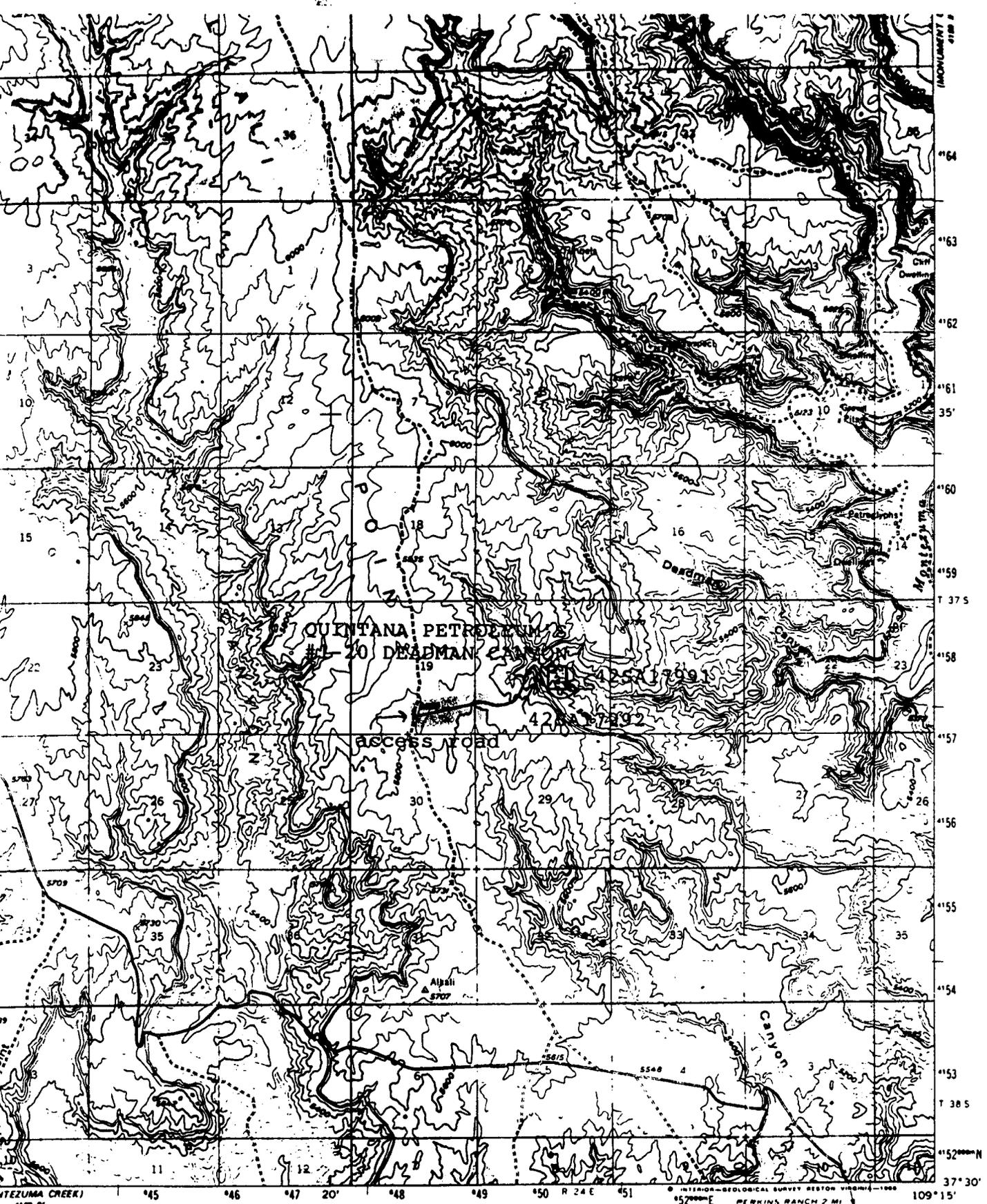
The well is located in the NW $\frac{1}{4}$ , SE $\frac{1}{4}$  of section 20, T37S, R24E in San Juan County, Utah. The ca. 1.6 miles of access road is located in the S $\frac{1}{2}$  of sections 19 and 20. Approximately .6 miles of the access will involve new road construction, with the remaining ca. one mile requiring upgrading of an existing road. The Bureau of Land Management - San Juan Resource Area administers all land involved. The area is included on the Blanding, Utah 15' series topographic map.

#### PHYSIOGRAPHY AND ENVIRONMENT

The well pad and ca. .6 miles of the access road are located on a north facing slope of an unnamed canyon tributary of Deadman Canyon. The remaining portion of the access road is situated on Alkali Point. Terrain in the canyon in the vicinity of the well pad is characterized by badlands topography, rugged talus slopes, and cliffs. The area on Alkali Point is nearly flat to gently undulating. Elevations range from 5520 to 5840'.

Vegetation is a pinyon-juniper woodland association with P-J, bitterbrush, mountain mahogany, serviceberry, and yucca predominant. Sagebrush dominated openings dot the surface of Alkali Point.

Sediments vary according to topographic location. Most of the canyon slopes are littered with sand to boulder sized colluvium. Aeolian fine sandy loam covers most of Alkali Point. Permanent water is found in several seeps located at the shale-sandstone interface on canyon slopes.



VERTICAL INTERVAL 40 FEET  
 METRIC VERTICAL DATUM OF 1929

NATIONAL MAP ACCURACY STANDARDS  
 DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
 MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

[ 3 ]



QUADRANGLE LOCATION

ROAD CLASSIFICATION

- Heavy-duty —————
- Medium-duty —————
- Light-duty - - - - -
- Unimproved dirt .....
  - State Route

BLANDING, UTAH  
 N3730—W10915/15

1967  
 DMA 4150 III—SERIES V797

## SURVEY PROCEDURES

Prior to the initiation of the field work a file search was conducted at the BLM office in Monticello. The review indicated that hundreds of archeological sites have been recorded in the general area, but that none were documented in the project area per se.

On-the-ground survey was performed by walking a series of transects spaced 15 meters apart across an area 660 X 850 feet surrounding the well pad center stake. A 100' wide corridor along the ca. 1.6 miles of access road was surveyed by walking two parallel transects. A total of 19 acres were surveyed for the project. Both of the archeological sites were documented on standard IMACS site forms.

## SURVEY RESULTS

Two archeological sites were found and recorded. Brief descriptions of the sites are presented below. More detailed information is contained in the site forms submitted to appropriate offices of the BLM and the Division of State History.

SITE NO.: 42SA17991

DESCRIPTION: This site consists of a 4 X 5m sub-rectangular accumulation of ash, oxidized sandstone, and one burned upright slab. Several other possible uprights are present. No surface artifacts were noted. The feature type and location strongly suggests that the site is an Anasazi ceramic kiln.

SITE NO.: 42SA17992

DESCRIPTION: This site is situated between two large boulders at the base of the uppermost talus deposit on the north facing slope of a side canyon of Deadman Canyon. The site

consists of two small rubble mounds enclosing a probable kiva depression. There are probably fewer than ten rooms in the two rubble mounds. No midden was noted. Ceramics indicate a PII-III affiliation.

Both of these sites are considered significant and eligible for nomination to the National Register of Historic Places. The location of the well site had to be relocated slightly in order to avoid site 42SA17991, and the site is now ca. 50 feet from the edge of the well pad and in no danger of being disturbed during pad construction. Site 42SA17992 is also outside of the project impact area and will not be disturbed.

#### CONCLUSION

The archeological survey of Quintana Petroleum's Deadman Canyon #1-20 well pad and ca. 1.6 miles of access road was conducted by personnel of La Plata Archeological Consultants, Inc. during October and November, 1986. An area 660 X 850' surrounding the well center stake and a 100' wide corridor along the access route were inventoried for cultural resources. Two prehistoric archeological sites were found, the presence of one in the originally staked well pad area necessitating the slight relocation of the well site. Both of the sites are now outside of the project impact area and in no danger of being disturbed by the construction activities. The project is located in San Juan County, Utah on lands administered by the Bureau of Land Management. Provided that both of the sites are strictly avoided archeological clearance for the project is recommended.

CONFIDENTIAL

120459 APD  
102724 - Off Conf.

OPERATOR Quintana Petroleum Corp DATE 12-2-86

WELL NAME Deadman Canyon Fed. 1-20

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

43-037-31293  
API NUMBER

Fed.  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well in Sec 20  
Need water permit

APPROVAL LETTER:

SPACING:

203

UNIT

302

CAUSE NO. & DATE

302.1

STIPULATIONS:

1- Water



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

December 3, 1986

Quintana Petroleum Corporation  
1050 - 17th Street, Suite 400  
Denver, Colorado 80265

Gentlemen:

Re: Deadman Canyon Federal 1-20 - NW SE Sec. 20, T. 37S, R. 24E  
2180' FSL, 2030' 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:

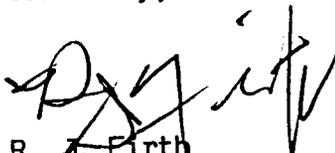
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. 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.

Page 2  
Quintana Petroleum Corporation  
Deadman Canyon Federal 1-20  
December 3, 1986

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 43-037-31293.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

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

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK  
**DRILL**       **DEEPEN**       **PLUG BACK**

b. TYPE OF WELL  
**OIL WELL**       **GAS WELL**       **OTHER**       **SINGLE ZONE**       **MULTIPLE ZONE**

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.)\*  
 At surface **2180' FSL & 2030' FEL**  
 At proposed prod. zone **NW SE Section 20**  
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 10.5 miles southeast of Blanding, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)      **2030'**

16. NO. OF ACRES IN LEASE      **1882.54**

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.      **N/A**

19. PROPOSED DEPTH      **6150'**

20. ROTARY OR CABLE TOOLS      **Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5565' GR**

22. APPROX. DATE WORK WILL START\*  
**December 1, 1986**

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.  
**#1-20**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

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

12. COUNTY OR PARISH      13. STATE  
**San Juan      Utah**

**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'	660 sxs Lite & 200 sxs "B"
5 1/2"	8 3/4"	15.5#	6150'	275 sxs 50/50 Poz

**RECEIVED**  
DEC 05 1986

**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 *J. Williams* TITLE Production Technician DATE 11/24/86

(This space for Federal or State office use)

PERMIT NO. 4303731293 APPROVAL DATE \_\_\_\_\_

APPROVED BY Kenneth V. Rhea TITLE Acting DISTRICT MANAGER DATE DEC 04 1986

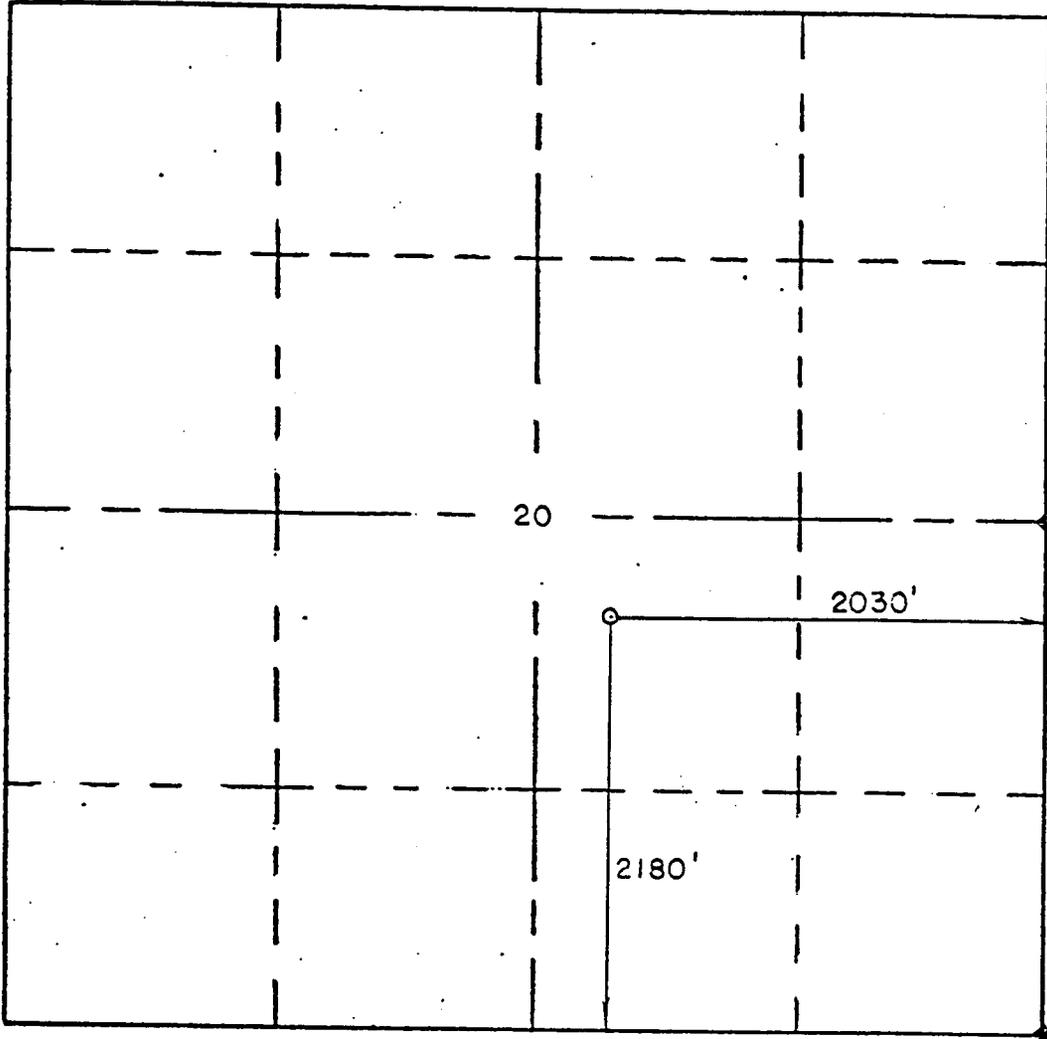
CONDITIONS OF APPROVAL IF ANY:  
**FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A DATED 1/1/80**

**CONDITIONS OF APPROVAL ATTACHED**

\*See Instructions On Reverse Side

WELL LOCATION PLAT

RECEIVED NOV 13 1986



WELL LOCATION DESCRIPTION:

QUINTANA PETROLEUM  
Deadman Canyon #1-20  
2180' FSL & 2030' FEL  
Section 20, T.37 S., R.24 E., SLM  
San Juan County, Utah  
5565' grd. elevation  
References: 2070' FSL & 2010' FEL, 5597' grd. elevation

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

11-10-'86

REGISTERED LAND SURVEYOR  
No. 5705  
GERALD G. HUDDLESTON  
*Gerald G. Huddleston*  
Gerald G. Huddleston, LS  
STATE OF UTAH

**RECEIVED**  
DEC 05 1986

DIVISION OF  
OIL, GAS & MINING

Quintana Petroleum Corporation  
Well No. Deadman Canyon Federal 1-20  
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.

**RECEIVED**  
DEC 05 1986

DIVISION OF  
OIL, GAS & MINING

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

API #43-037-31293

NAME OF COMPANY: QUINTANA PETROLEUM

WELL NAME: DEADMAN CANYON FEDERAL 1-20

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

DRILLING CONTRACTOR Coleman Drilling

RIG # 4

SPODDED: DATE 12-14-86

TIME 5:00 AM

HOW Rotary

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY Jean Williams

TELEPHONE # (303) 628-9211

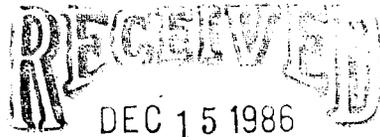
DATE 12-15-86 SIGNED J. Thompson

QUINTANA PETROLEUM CORPORATION

121617

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

December 11, 1986



DIVISION OF  
OIL, GAS & MINING

Bureau of Land Management  
Moab District  
P. O. Box 970  
Moab, Utah 84532

RE: Deadman Canyon Federal #1-20  
Section 20, T37S-R24E  
San Juan County, Utah

Gentlemen:

Quintana Petroleum Corporation requests that all information received in your office on the subject well be held confidential. Therefore please mark all pages of the Application to Drill "confidential".

Thank you for your prompt attention to this matter. Please contact me if you require further information to comply with this request.

Very truly yours,

A handwritten signature in cursive script that reads "Jeannie Williams". The signature is written in dark ink and is positioned above the typed name.

Jeannie Williams  
Production Technician

/jw

cc: State of Utah  
Division of Oil, Gas and Mining  
Salt Lake City, Utah

BLM - Monticello, Utah



STATE ENGINEER'S ENDORSEMENT

WATER RIGHT NUMBER: 09 - 1491

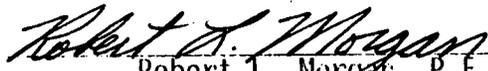
APPLICATION NO. T62201

1. November 26, 1986 Application received by MP.
2. November 26, 1986 Application designated for APPROVAL by MP and SG.
3. Comments:

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Conditions:

This application is hereby APPROVED, dated December 15, 1986, subject to prior rights and this application will expire on March 19, 1987.

  
\_\_\_\_\_  
Robert L. Morgan, P.E.  
State Engineer

RECEIVED  
DEC 29 1986

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. \_\_\_\_\_

DIVISION OF  
OIL, GAS & MINING

REPORT OF OPERATIONS AND WELL STATUS REPORT

CONFIDENTIAL

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:  
December, 1986

Agent's Address 1050 - 17th Street, Suite 400 Company QUINTANA PETROLEUM CORPORATION  
Denver, Colorado 80265 Signed [Signature] 12/23/86  
Title Production Technician  
Phone No. (303)628-9211

Sec. and 1/4 of 1/4	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 NW SE	37S	24E	#1-20							43-037-31293  ✓ SPUD 12/14/86. DRILLING.

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.

RECEIVED  
JAN 05 1987

DIVISION OF  
OIL, GAS & MINING

IGT

QUINTANA PETROLEUM CORPORATION  
DEADMAN CANYON FEDERAL #1-20  
SEC. 20, T37S-R24E  
SAN JUAN COUNTY, UTAH

INTERMOUNTAIN GEO-TECH, INC.  
P. O. BOX 158  
DELTA, CO 81416  
303-874-7762

QUINTANA PETROLEUM CORPORATION  
DEADMAN CANYON FEDERAL #1-20  
SEC. 20, T37S-R24E  
SAN JUAN COUNTY, UTAH

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DRILLING CONTRACTOR:	COLEMAN RIG #4 FARMINGTON, NEW MEXICO
DRILLING FOREMAN:	MR. RAY KOEHN
PUSHER:	MR. DON VESTAL
GEO TECHNOLOGISTS:	MR. DARYL ISER - MR. CALEB GATES INTERMOUNTAIN GEO-TECH, INC. P. O. BOX 158 DELTA, CO 81416 303-874-7762
DRILLING FLUID:	MR. DON LINDER MILCHEM HOUSTON, TX
DRILL STEM TEST:	MR. DAVID DOLYNIUK LYNES-BAKER TOOL FARMINGTON, NEW MEXICO
WIRE LINE LOGS:	MR. ROGER SITTON SCHLUMBERGER FARMINGTON, NEW MEXICO
GEOLOGIST:	MR. DOUG REDMOND

QUINTANA PETROLEUM CORPORATION  
DEADMAN CANYON FEDERAL #1-20  
SEC. 20, T37S-R24E  
SAN JUAN COUNTY, UTAH

SUMMARY OF DAILY ACTIVITY

<u>DATE</u>	<u>ACTIVITY</u>	<u>MIDNITE DEPTH</u>	<u>24 HOUR FOOTAGE</u>
12/17/86	IGT UNIT #2 ON LOCATION, RIGGED UP DRLG	4000'	196'
12/18/86	DRLG, SURV	4196'	494'
12/19/86	DRLG, SURV	4690'	310'
12/20/86	DRLG, MUD UP	5000'	248'
12/21/86	DRLG, SURV, DRLG	5248'	362'
12/22/86	DRLG	5610'	166'
12/23/86	DRLG, TOH, DST #1	5776'	140'
12/24/86	DRLG	5916'	234'
12/25/86	TOH FOR "E" LOGS, IGT UNIT #2 RELEASED	6150'	--

QUINTANA PETROLEUM CORPORATION  
DEADMAN CANYON FEDERAL #1-20  
SEC. 20, T37S-R24E  
SAN JUAN COUNTY, UTAH

BIT RECORD

<u>BIT</u>	<u>MAKE</u>	<u>SIZE</u>	<u>TYPE</u>	<u>DEPTH OUT</u>	<u>FOOTAGE USED</u>	<u>HOURS</u>
1	HUGH	17½"	OSC 17	48'	48'	11½
2	HTC	12¼"	L 722	1447'	1399'	6
3	ABC	12¼"	S-33	2000'	553'	10½
4	STC EZ2462	8 3/4"	F-27	5385'	3385'	84½
5	SMITH FD-2513	8 3/4"	F-3	6149'	373'	19

QUINTANA PETROLEUM CORPORATION  
DEADMAN CANYON FEDERAL #1-20  
SEC. 20, T37S-R24E  
SAN JUAN COUNTY, UTAH

DEVIATION SHEET FOR WELL. . .

<u>DEPTH</u>	<u>DEVIATION (DEV)</u>
492'	1°
996'	$\frac{1}{4}$ °
1448'	$\frac{1}{2}$ °
2001'	1 $\frac{1}{2}$ °
2200'	1 $\frac{1}{2}$ °
2689'	3/4°
3183'	$\frac{1}{2}$ °
3707'	$\frac{1}{4}$ °
4198'	$\frac{1}{2}$ °
4690'	1°
5188'	$\frac{1}{4}$ °

COMPANY QUINTANA PETROLEUM CORPORATION  
WELL NO. DEADMAN CANYON FEDERAL #1-20  
LOCATION SAN JUAN COUNTY, UTAH

ZONE OF INTEREST NO. 1

INTERVAL: From 5743' To 5756'

DRILL RATE: Abv 3 min/2 ft Thru 1.5 min/2 ft Below \_\_\_\_\_

**MUD GAS-CHROMATOGRAPH DATA**

	TOTAL	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	OTHER
Before	70 U	.6%	.2%	.12%	.1%		
During	800 U	21.28%	5.6%	4.6 %	2.4%	1.6%	
After	120 U	10.56%	2.64%	2.2 %	1.65%	.9%	

Type gas increase: Gradual  Sharp

Gas variation within zone: Steady  Erratic  Increasing  Decreasing

CARBIDE HOLE RATIO:  $\frac{\text{GRAMS}}{\text{READING}}$  X Min. in Peak = \_\_\_\_\_ Sensitivity: Poor  Fair  Good

FLUO: Mineral  Even  Spotty  CUT: None  Streaming  
None  % in total sample 70% Poor  Slow   
Poor  Fair  Mod   
Fair  % in show lithology 50% Good  Fast   
Good  COLOR: Faint yel blu COLOR: faint yel blu

STAIN: None  Poor  Fair  Good  Live  Dead  Residue  Even  Spotty  Lit  Dk.

POROSITY: Poor  Fair  Good  Kind Intercrystalline & granular

LITHOLOGY LS MGY DKBRN VF-F GRAN SUC OCC CRPXL DOL & ANHY FOS P-P VUG Ø

LT-DKBRN LIVE Ø STN IN Ø SAMPLE QUALITY Good

NOTIFIED Joe Ross @ 9:42 A.M. HRS. DATE: 12/22/86

REMARKS Excellent increase in C<sub>3</sub> - C<sub>4</sub> gases approximately 98 feet of porosity  
in Upper Ismay 5748-5846.

ZONE DESCRIBED BY Daryl Iser

COMPANY QUINTANA PETROLEUM CORPORATION  
WELL NO. DEADMAN CANYON FEDERAL #1-20  
LOCATION SAN JUAN COUNTY, UTAH

ZONE OF INTEREST NO. 2

INTERVAL: From 5756' To 5776'

DRILL RATE: Abv 1.5 min/2 ft Thru 1.5 min/2 ft Below \_\_\_\_\_

**MUD GAS-CHROMATOGRAPH DATA**

	TOTAL	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	OTHER
Before	40 U	.22%	.09%	.03%			
During	925 U	26.4%	6.6 %	5.5 %	5.6%	1%	
After	300 U	10.4%	2.6 %	1.6 %	.77%		

Type gas increase: Gradual  Sharp

Gas variation within zone: Steady  Erratic  Increasing  Decreasing

CARBIDE HOLE RATIO:  $\frac{\text{GRAMS}}{\text{READING}}$  X Min. in Peak = \_\_\_\_\_ Sensitivity: Poor  Fair  Good

FLUO: Mineral  Even  Spotty  CUT: None  Streaming  
None  % in total sample tr Poor  Slow   
Poor  % in show lithology tr Fair  Mod   
Fair  COLOR: lt yel-bl Good  Fast   
Good  COLOR: faint yel cut

STAIN: None  Poor  Fair  Good  Live  Dead  Residue  Even  Spotty  Lt.  Dk.

POROSITY: Poor  Fair  Good  Kind Est % 12-15 sm vis pp

LITHOLOGY LS BRN LTGY TAN CRYPT VF-FMIC FOS ANHY SUC DOL PP VIUG Ø

SAMPLE QUALITY Good

NOTIFIED Joe Ross @ 2:00 P.M. HRS. DATE: 12/23/86

REMARKS Stain - brown-blk, live

ZONE DESCRIBED BY Daryl Iser

INTERMOUNTAIN GEO-TECH, INCORPORATED  
P. O. BOX 158 DELTA, CO 81416  
(303) 874-7762

COMPANY QUINTANA PETROLEUM CORPORATION  
WELL NO. DEADMAN CANYON FEDERAL #1-20  
LOCATION SAN JUAN COUNTY, UTAH

ZONE OF INTEREST NO. 3

INTERVAL: From 5860' To 5872'

DRILL RATE: Abv 3.0 min/ft Thru 1.0 min/ft Below 2.5 min/ft

**MUD GAS-CHROMATOGRAPH DATA**

	TOTAL	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	OTHER
Before	300 U	10.0%	6.0%	4.5%	5.0%		
During	1000 U	26.6%	20.2%	10.7%	7.0%		
After	250 U	6.0%	4.0%	1.0%	tr		

Type gas increase: Gradual  Sharp

Gas variation within zone: Steady  Erratic  Increasing  Decreasing

CARBIDE HOLE RATIO:  $\frac{\text{GRAMS}}{\text{READING}}$  X Min. in Peak = \_\_\_\_\_ Sensitivity: Poor  Fair  Good

FLUO: Mineral  Even  Spotty  CUT: None  Streaming  
None  % in total sample 50% Poor  Slow   
Poor  Fair  Mod   
Fair  % in show lithology 50% Good  Fast   
Good  COLOR: yel COLOR: lt blu

STAIN: None  Poor  Fair  Good  Live  Dead  Residue  Even  Spotty  Lt.  Dk.

POROSITY: Poor  Fair  Good  Kind Pinpoint vuggy

LITHOLOGY LS MGY TAN LTGY CRPXL VF MICXL CHKY & ARG IP MRLY FRM MHD OCC SUC EOS

SAMPLE QUALITY Good

NOTIFIED Joe Ross @ \_\_\_\_\_ HRS. DATE: 12/24/86

REMARKS Significant increase in gasses tr of oil in sample

ZONE DESCRIBED BY Daryl Iser

COMPANY QUINTANA PETROLEUM CORPORATION  
WELL NO. DEADMAN CANYON FEDERAL #1-20  
LOCATION SAN JUAN COUNTY, UTAH

ZONE OF INTEREST NO. 4

INTERVAL: From 6032' To 6040'

DRILL RATE: Abv 3.5 min/ft Thru 2.5 min/ft Below 4.0 min/ft

**MUD GAS-CHROMATOGRAPH DATA**

	TOTAL	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	OTHER
Before	300 U	4%	1%	tr	tr		
During	600 U	8%	2%	1%	1%		
After	250 U	2%	1%	tr	tr		

Type gas increase: Gradual  Sharp

Gas variation within zone: Steady  Erratic  Increasing  Decreasing

CARBIDE HOLE RATIO:  $\frac{\text{GRAMS}}{\text{READING}}$  X Min. in Peak = \_\_\_\_\_ Sensitivity: Poor  Fair  Good

FLUO: Mineral  Even  Spotty  CUT: None  Streaming  
None  % in total sample 20% Poor  V Slow   
Poor  % in show lithology 20% Fair  Mod   
Fair  COLOR: blu Good  Fast   
Good  COLOR: blu wh

STAIN: None  Poor  Fair  Good  Live  Dead  Residue  Even  Spotty  Lt.  Dk.

POROSITY: Poor  Fair  Good  Kind Intercrystalline

LITHOLOGY DOL LTBRMGY GEN MIC XL SOME VFXL TR V FAINT O STN RARE P-P BLU FLOR

V WK CUT SAMPLE QUALITY Good

NOTIFIED \_\_\_\_\_ @ \_\_\_\_\_ HRS. DATE: 12/25/86

REMARKS Steady increase in gasses from 6010 to 6040

ZONE DESCRIBED BY Daryl Iser

DRILL STEM TEST REPORT

DST # 1 Date 12/23/86 Testing Co. Lynes-Baker Tools

WELL NAME: DEADMAN CANYON FEDERAL #1-20

Formation: UPPER ISMAY Interval: 5740 - 5776 Wtr. Cushion NONE

Hole Size 8 3/4" Packer Size 8" Drl. Pipe Size 4 1/2" Bbls/Ft \_\_\_\_\_

Drl. Collar Size \_\_\_\_\_ Bbls/Ft \_\_\_\_\_ Drlg. Contractor Coleman Rig 4

Mud Filtrate: Ppm Nitrate NO Ppm Chlorides RW 1 at 65° 8000

	<u>Minutes</u>		
	<u>Duration</u>		
Preflow	<u>15</u>	Gas to Surf. <u>3</u> Min; Rate <u>589.9</u> MCF/D	
Initial Shutin	<u>60</u>	Fluid to Surf. <u>NO</u> Min; Rate <u>0</u>	
Flow Period	_____	Mud _____ Min; Wtr _____ Min; Oil _____ Min	
Final Shutin	_____		

Test Description: 45 API @ 60° 44.5 GRAVITY recovered oil

Orifice Plate Size	Temp.	Minutes from V.O.	Pressure	Rate
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Pressure Records (Field Readings) -- Bomb Depth <sup>INSIDE</sup> 5760 Bottom Hole Temp. 132°

IHP 2848 IFP 2244 FFP 2265 ISIP 2452; IFP \_\_\_\_\_ FFP \_\_\_\_\_ FSIP \_\_\_\_\_ FHP \_\_\_\_\_

Sampler Capacity 200 cc Cc's; Sampler Pressure 1500 Rstv 0 Temp 0 °

Cu Ft Gas .15 Cc's Oil \_\_\_\_\_ Cc's Water \_\_\_\_\_ Cc's (Other) 50cc Condensate \_\_\_\_\_

Sampler Recovery (Water): Ppm Nitrate \_\_\_\_\_ Ppm Chlorides 0

Pipe Recovery: 6.6 bbls of condensate cut mud 90% mud 10% condensate

Problems: washed out 1st shut in position

Remarks: Pull tool loose because of above problem

Agent of Operator Doug Redmond

012114

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JAN 16 1987  
DIVISION OF  
OIL, GAS & MINING

DEADMAN CANYON #1-20  
QUINTANA PETROLEUM CORPORATION  
Sec 20, T37S, R24E  
SAN JUAN COUNTY, UTAH

CONFIDENTIAL

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DEADMAN CANYON #1-20  
Sec 20, T37S, R24E  
SAN JUAN COUNTY, UTAH

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WELL DATA SUMMARY

WELL NAME: DEAD MAN CANYON #1-20

OPERATOR: QUINTANA PETROLEUM

LOCATION: 2180' FSL 2030" FEL 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 5565'  
KB 5579'

DEPTH LOGGED: 4500' to 6150'

DATE LOGGED: 12/19/86 to 12/25/86

TOTAL DEPTH: 6149' DRILLERS, 6150' LOGGERS

HOLE SIZE: 20" to 48', 12 1/4" to 2001', 8 3/4" to 6150'

CASING PROGRAM: 9 5/8" to 2001', 5 1/2" production

D.S.T.: BAKER SERVICE TOOLS

MUDLOGGING COMPANY: INTERMOUNTAIN GEO-TECH

MECHANICAL LOGS: SCHULMBERGER

WELL STATUS: AWAITING COMPLETION

DAILY DRILLING SUMMARY

<u>DATE</u>	<u>DEPTH</u>	<u>PROGRESS</u>	<u>HOURS</u> <u>DRLG.</u>	<u>MUD</u> <u>WEIGHT</u>	<u>VISC.</u>	<u>W.L.</u>	<u>PH</u>	<u>ACTIVITY</u>
12-19-86	3840'			water				drilling
12-20-86	4740'	900'	23	water				drilling
12-21-86	5385'	645'	21 1/2	8.8	33	35	8.5	trip for bit
12-22-86	5710'	325'	18	9.5	37	11.5	11.5	drilling
12-23-86	5776'	66'	2 1/2	9.5	37	10	12	D.S.T. #1
12-24-86	6003'	227'	10 1/2	10.1	52	10.8	11.5	drilling
12-25-86	6150'	146'	8 1/2	10.3	45	10.6	12	E-logging

FORMATION TOPS

ELEVATION: GL 5565'  
KB 5579'

<u>FORMATION</u>	<u>PROGNOSIS</u>	<u>ESTIMATED TOP</u>	<u>E-LOG</u>	<u>SUBSEA</u>
DAKOTA	Surface			
NAVAJO	1004'			
WINGATE	1577'			
CHINLE	1847'	1838'	1846'	+3733'
SHINARUMP	2542'			
HERMOSA	4686'	4530'	4522'	+1057'
UPPER ISMAY	5748'	5720'	5724'	- 145'
HOVENWEEP SHALE	5832'	5925'	5925'	- 346'
LOWER ISMAY	5957'	5960'	5953'	- 374'
GOTHIC SHALE	6002'	5996'	5995'	- 416'
DESERT CREEK	6028'	6020'	6025'	- 446'
CHIMNEY ROCK SHALE	6108'	6090'	6093'	- 514'
AKAH	6123'	6106'	6110'	- 531'
SALT	6147'	6145'	6147'	- 568'

DEVIATION SURVEY

<u>DEPTH</u>	<u>SURVEY</u>	<u>CHANGE</u>
4692'	1°	
5188'	1/4°	- 3/4°
6149'	1 1/4°	+ 1°



SHOW REPORT

WELL NAME: DEADMAN CANYON #1-20

AREA: CAVE CANYON COUNTY: SAN JUAN STATE: UTAH

SHOW No.: 1

FOOTAGE - from 5743' to 5756' Net ftg 13'

	DT	TOTAL GAS	CHROMATOGRAPH BREAKDOWN					other
			C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4I</sub>	C <sub>4N</sub>	
BEFORE	3.5	70	0.6	0.2	0.12	0.1		
DURING	0.75	800	21.28	5.6	4.6	2.4	1.6	
AFTER	1.5	120	10.56	2.64	2.2	1.65	0.9	

LITHOLOGY TYPE & DESCRIPTION: LS brn,tan, crypt-vf micro,dolo,foss,chalky ip, suc,frm,pref leaching along foss debris,vugs are druzy w/ dolo rhombs

POROSITY Est.: 12-15% pp,vuggy,interxln

STAIN DESCRIPTION: patchy-pp, live, brn

FLUORESCENCE and CUT DESCRIPTION: v sull yellow fluo,diffuse lt yel-blu cut

REMARKS: Very good gas show, quite probably a gas cap above oil column

SHOW REPORT

WELL NAME: DEADMAN CANYON #1-20

AREA: CAVE CANYON COUNTY: SAN JUAN STATE: UTAH

SHOW No.: 2

FOOTAGE - from 5756' to 5776' Net ftg 20'

	DT	TOTAL GAS	CHROMATOGRAPH BREAKDOWN					other
			C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4I</sub>	C <sub>4N</sub>	
BEFORE	1	40	0.22	0.09	0.03			
DURING	1	925	26.4	6.6	5.5	3.5	2.1	
AFTER	1	300	10.4	2.6	1.6	0.73	0.04	

LITHOLOGY TYPE & DESCRIPTION: LS brn,ltgy,tan, crypt,vf-f micor,foss,tr of anhy fill, suc,dolo-sl dolo

POROSITY Est.: 15% vis pp-vuggy,sm intrxln

STAIN DESCRIPTION: brn-blk, live, patchy

FLUORESCENCE and CUT DESCRIPTION: faint lt yel-blu fluo, faint fast strmg mlky yel-blu cut

REMARKS: Good gas show

SHOW REPORTWELL NAME: DEADMAN CANYON #1-20AREA: CAVE CANYON COUNTY: SAN JUAN STATE: UTAHSHOW No.: 3FOOTAGE - from 5776' to 5860' Net ftg 84'

	DT	TOTAL GAS	CHROMATOGRAPH BREAKDOWN					other
			C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4I</sub>	C <sub>4N</sub>	
BEFORE	300		10.0	6.0	4.5	5.0		
DURING	1000	600-1000	26.6	20.2	10.7	7.0%	2.5	
AFTER	250		6.0	4.0	1.0	TR	TR	

LITHOLOGY TYPE & DESCRIPTION: LS wh,ltgy, crypt,vf-f micro,foss,suc,frm,good vuggy+ intrxln Ø,pref leaching along foss debris

POROSITY Est.: 15% vuggy + intrxln

STAIN DESCRIPTION: even brn-blk stn

FLUORESCENCE and CUT DESCRIPTION: mod bri yel-blu fluo,fast strmg yel-blu cut

REMARKS: Fluorescence and cut becomes visably stronger at 5780-5820', 5820-5850' samples become light in color, less evidence of staining, total gas varied throughout while drilling, however, good show

SHOW REPORT

WELL NAME: DEADMAN CANYON #1-20

AREA: CAVE CANYON COUNTY: SAN JUAN STATE: UTAH

SHOW No.: 4

FOOTAGE - from 5858' to 5910' Net ftg 52'

	DT	TOTAL GAS	CHROMATOGRAPH BREAKDOWN					other
			C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4I</sub>	C <sub>4N</sub>	
BEFORE	2.5	300	10.0	6.0	4.5	5.0		
DURING	1.5	1000	26.6	20.2	10.7	7.0		
AFTER	3	250	6.0	4.0	1.0	TR		

LITHOLOGY TYPE & DESCRIPTION: LS wh,ltgy, crypt,vf micro,sm decr of xln structure,  
frm,bcmg dns

POROSITY Est.: 12% vuggy and intrxln

STAIN DESCRIPTION: TR lt bwn stn

FLUORESCENCE and CUT DESCRIPTION: v dull yel-blu fluo,v wk diffuse cut

REMARKS: There is less visible  $\emptyset$  than above, abundant mineral fluorescence,  
show in much weaker than above

SHOW REPORTWELL NAME: DEADMAN CANYONAREA: CAVE CANYON COUNTY: SAN JUAN STATE: UTAHSHOW No.: 5FOOTAGE - from 6032' to 6038' Net ftg 6'

	DT	TOTAL GAS	CHROMATOGRAPH BREAKDOWN					other
			C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4I</sub>	C <sub>4N</sub>	
BEFORE	3.5	300	4	1	TR	TR		
DURING	2.5	600	8	2	1	1		
AFTER	4.0	250	2	1	TR	TR		

LITHOLOGY TYPE & DESCRIPTION: LS mgy, crypt-vf micro, marly, v dolo, arg, frmPOROSITY Est.: 5-10% intrxlnSTAIN DESCRIPTION: lt brn-blk stnFLUORESCENCE and CUT DESCRIPTION: v sull yel-blu fluo, v wk yel slow cutREMARKS: Interval is tight, low  $\phi$

SHOW REPORT

WELL NAME: DEADMAN CANYON #1-20

AREA: CAVE CANYON COUNTY: SAN JUAN STATE: UTAH

SHOW No.: 6

FOOTAGE - from 6104' to 6112' Net ftg 8

	DT	TOTAL GAS	CHROMATOGRAPH BREAKDOWN					other
			C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4I</sub>	C <sub>4N</sub>	
BEFORE	3	330	3.2	1.3	0.8	0.1		
DURING	2	1020	12.5	3.9	1.6	0.66	0.47	
AFTER.	3	450	4.2	1.8	1.2	0.33		

LITHOLOGY TYPE & DESCRIPTION: LS mgy,ltgy-brn, crypt,vf micro,sl suc,arg ip,  
v dolo,sft-mhd,v dull yel fluo,diff cloudy yel cut

POROSITY Est.: 8%

STAIN DESCRIPTION: TR blk-brn live stn

FLUORESCENCE and CUT DESCRIPTION: v dull yel fluo,diffuse cloudy yel cut

REMARKS: Tight rocks

DRILL STEM TEST REPORTWELL NAME: DEADMAN CANYON #1-20 DATE: 12/23/86AREA: CAVE CANYON COUNTY: SAN JUAN STATE: UTAHWITNESS: REDMONDTEST NUMBER: 1 INTERVAL TESTED: 5740' - 5776'TEST COMPANY AND TYPE OF TEST: LYNES, with a conventional double packer test.

INITIAL FLOW: Opened with strong blow, GTS in 3 min. with 400# on a 1/4" choke,  
500# in 5 min., 800# in 7 min., 1200# in 12 min., 1250# in 15 min., shut tool  
in pressure bled off 30 min. through 1/4" choke to 600#, 45 min. 550#, opened to  
3/4" and 1/4" choke, bled to 200#, at 50 min. pressure went up to 400#, shut tool  
in to FSI, immediately assumed tool o rings were out.

	TIME	TOP CHART	BOTTOM CHART	
IH:		<u>2767</u>	<u>2848</u>	BHT: <u>132</u> °
IF:	<u>15</u>	<u>2084-2150</u>	<u>2244-2265</u>	
ISI:	<u>60</u>	<u>2432</u>	<u>2452</u>	
FF:	<u>        </u>	<u>        </u>	<u>        </u>	
FSI:	<u>        </u>	<u>        </u>	<u>        </u>	
FH:		<u>2758</u>	<u>2828</u>	

RECOVERY: 6.6 BBLs of condensate and drilling mud, 90% mud, 10% condensate,  
recovered at reverse tank

SAMPLE CHAMBER: .15 cfg and TR condensate at 1500 PSI

RESISTIVITIES: Top .15 at 65° 5000cc, middle condensate, bottom .04 at 65°  
150,000 cc questionable

REMARKS: assumed tool o rings were out, bled off to 50#, pulled tool loose  
at 60 min., possible 6000# fluid pickup

GEOLOGIC SUMMARY  
QUINTANA PETROLEUM CORPORATION  
DEADMAN CANYON #1-20

Geologic coverage of the Deadman Canyon #1-20 well began by choosing a surface casing point in the Chinle Formation. This insures the Navajo and Wingate sandstone aquifers are protected from drilling fluid contamination. The Chinle red shales were noticed first at 1838 feet, and were accompanied by a noticeable decrease of penetration rate. Drilling continued to 2001 feet, where 9 5/8 inch surface casing was set. Geologic evaluation continued at 4500 feet above the Hermosa Group's Honaker Trail.

Honaker Trail: 4522' to 5724'

This interval represents the geologic deposition changing from marine below to continental red beds above in the Cutler Formation. It is easily recognizable in the samples by the color changes and significant increase of limestone present. Its top can be arguable, however, by convention it is picked on the first massive marine limestone. The shales become gray to brown and much of it grades to marlstone further down. Hydrocarbon gas increases were seen from 5390 feet to 5540 feet. These increases came from tight sands and black gassy shale bedding planes with tight, dense limestone. These increases were not associated with significant drilling rate increases or visible porosity. In the lower Honaker Trail, massive limestones separated by dark shales signify total marine deposition and hint to the observer watching for the Upper Ismay that it is coming soon.

Upper Ismay: 5724' to 5925'

Following a dark shale sometimes called the Paradox Shale, the Upper Ismay appeared with a limestone followed immediately by a massive anhydrite. This leaves no doubt as to where this interval top is. The porosity was noticed by a penetration rate increase and significant gas increase. Initially, ten feet of porosity was cut and samples were circulated (Show #1). Twenty more feet were cut (Show #2), and the zone was tested by D.S.T. #1. Observation of the samples including hydrocarbon evaluation of the porosity, live stain, very dull blue fluorescence, and diffuse blue cut very hard to see leads one to believe it is a gas cap to 5780 feet. Supporting this is stratigraphic elevation of the porosity that is very high, D.S.T. #1 results, and now also E-logs. Following the D.S.T., drilling continued. From 5776 feet to 5847 feet, the limestone exhibits excellent visible porosity along fossil debris. This interval has a high total percentage of bright yellow to blue fluorescence, and fast streaming cut. A noticeable change of sample color occurred at 5825 to 5845 feet, where they became lighter. This was believed to be caused by a decrease of crystal size and structure, with a more chalky appearance, and less intercrystalline oil staining to give it the darker color. From 5846 to 5862 feet, a tight interval signifies the top of a second algal mound. Following this, a second porous limestone is present. Although a good gas increase was logged, the sample show definitely decreased in quantity and quality. The crystal size decreased and the limestone contained only mineral fluorescence. This tight spot very likely is a water contact.

Schlumberger E-logs show a beautiful oil and gas column from 5746 to 5825 feet, where the resistivity drops some, although not enough to cause

alarm. This log was run with a Rw of 0.035 which easily would be more optimistic at 0.04. Generally, porosity went from 15 to 18%, and high resistivity makes Sw values low at 10 to 20%. Summing it up, a productive interval from 5746 to 5846 feet is likely. Following is a representative show sample description; limestone - light to medium gray, dark brown, translucent in part, very fine to medium crystalline structure, some cryptocrystalline, sucrosic appearance in part, dolomitic in part, small traces of anhydrite fill, fossiliferous, some friable, firm, pin point to larger vuggy porosity, drusy in vugs with dolomite rhombs, some evidence of preferential leaching in fossil remains, light to dark brown live oil stain even within porosity faces, dull to bright yellow-blue fluorescence, and fast streaming yellow-blue milky cut.

Hovenweep Shale: 5925' to 5953'

A heavily organic black shale easily recognizable in the sample denotes this top. This shale among others was very gassy and is considered to be one of the source beds for hydrocarbons in the Paradox Basin.

Lower Ismay: 5953' to 5995'

The Lower Ismay consists of limestone at the top and bottom which is separated by a massive anhydrite nearly 15 feet thick. The lower carbonate can be a reservoir for hydrocarbons in areas, however, this well did not have any porosity development, oil, or gas shows.

Gothic Shale: 5995' to 6025'

This shale is consistently present throughout the Paradox basin. It is easy to correlate and a good source for hydrocarbons. It is black, heavily organic, and very gassy.

Desert Creek: 6025' to 6093'

Thickly interbedded carbonates, anhydrites, and dolomitic mudstones make up the bulk of this interval. The lower zone of this interval was carefully watched for the dolomite carbonate reservoir. From 6032 to 6038 feet a slight drilling break was encountered in a very dolomitic limestone. Traces of visible porosity, weak fluorescence, and cut were present, however the interval is predominately tight, appearing in the samples and porosity logs. It is doubtful if it is of any economic importance.

Chimney Rock Shale: 6093' to 6106'

This shale separates the Desert Creek cycle from the previous Akah below. It is very similar in appearance and characteristics to the other black shales in the Paradox.

Akah: 6106' to 6147'

This is the final cyclic depositional above the Paradox Salt. In this location its appearance is similar to the Desert Creek, ranging from carbonates to dolomitic mudstones in thick sequence without and indefinite bedding planes. A good gas increase and show was logged in a drilling break from 6104 to 6112 feet. It totaled 1020 units and the samples exhibited porosity, stain, and moderate to weak cut and fluorescence. The interval is now behind production casing and could be tested sometime in the future. Salt was reached at 6147 feet, and total depth was 6150 feet.

SAMPLE DESCRIPTIONS

4480-4510	60%	<u>Shale</u> - red orange, dark red to brown, silty, calcareous, sandy, fissile, firm
	40%	<u>Limestone</u> - white, light gray, medium gray, cryptocrystalline, very finely microcrystalline, trace microfracture, chalky and earthy in part, dense, firm, medium hard
4510-4540	60%	<u>Limestone</u> - white, cream, light gray, medium gray, cryptocrystalline, very finely microcrystalline, chalky, micaceous, occasionally sandy, soft, firm, dense
	30%	<u>Shale</u> - as above, becoming very silty in part, firm
	10%	<u>Sandstone</u> - clear, light gray, medium grain, unconsolidated
4540-4570	50%	<u>Shale</u> - orange to brown, dark gray to brown, calcareous, silty, fissile, firm
	30%	<u>Siltstone</u> - orange to brown, calcareous, sandy, firm
	20%	<u>Limestone</u> - medium gray, light gray, red, translucent, cryptocrystalline, medium hard, dense
4570-4600	60%	<u>Shale</u> - as above, very marly in part, micaceous
	30%	<u>Siltstone</u> - as above
	10%	<u>Limestone</u> - medium gray to red orange, white, chalky in part, cryptocrystalline, very finely microcrystalline, earthy, firm, medium hard
4600-4630	50%	<u>Limestone</u> - white, light to medium gray, dark gray, very finely microcrystalline, cryptocrystalline, chalky in part, micaceous, marly, occasionally sandy, glauconitic, dense, firm, medium hard
	50%	<u>Shale</u> - as above, becoming medium to dark gray, very marly in part, micaceous, fissile, medium hard
4630-4660	60%	<u>Limestone</u> - white, light to medium gray, tan to brown, translucent, cryptocrystalline, very finely microcrystalline, siliceous, slightly dolomitic, sandy, medium hard, firm, dense
	40%	<u>Shale</u> - as above, becoming very marly, some red to brown, calcareous, micaceous, fissile, firm
4660-4690	70%	<u>Limestone</u> - medium gray, dark gray, light gray, cryptocrystalline, very finely microcrystalline, siliceous in part, sandy, very marly in part, some reddish brown, marly, firm, medium hard
	30%	<u>Shale</u> - as above, graded to siltstone
4690-4720	90%	<u>Limestone</u> - white, light to medium gray, dark gray, translucent, cryptocrystalline, very finely microcrystalline, marly, oolitic, slightly sandy, soft to firm, occasionally medium hard, dense
	10%	<u>Shale</u> - dark gray to brown, marly, micaceous, medium hard
4720-4750	90%	<u>Limestone</u> - as above
	10%	<u>Shale</u> - as above
		Trace loose sandstone grains
4750-4780	70%	<u>Limestone</u> - medium gray, light gray, cryptocrystalline very finely microcrystalline, translucent and tan in part, siliceous, marly, occasionally micaceous, pyritic, firm, medium hard, very hard

4740-4780 (cont.)	30%	<u>Shale</u> - as above, very marly, firm Trace Glauconite
4780-4810	60%	<u>Limestone</u> - as above, some very sandy, hard, dense
	30%	<u>Shale</u> - medium to dark gray, calcareous, marly, very micaceous, fissile, firm
	10%	<u>Sandstone</u> - clear, orange, light gray, very fine to coarse grained, calcareous, angular, poorly sorted, unconsolidated, very friable
4810-4840	90%	<u>Limestone</u> - white, light to medium gray, dark gray, cryptocrystalline, very finely microcrystalline, micaceous, sandy, dense, firm to medium hard
	10%	<u>Sandstone</u> - clear, orange, very fine grained, calcareous, silty, subrounded to angular, poorly sorted, predominately unconsolidated, friable
4840-4900	80%	<u>Shale</u> - dark gray, marly, silty, micaceous, dolomitic in part, medium hard
	10%	<u>Sandstone</u> - as above
	10%	<u>Limestone</u> - as above
4900-4930	60%	<u>Limestone</u> - white, light gray, cryptocrystalline, chalky, sandy, firm, medium hard
	30%	<u>Sandstone</u> - clear, orange, transparent, very fine to fine grain, graded to siltstone, arkosic, micaceous, unconsolidated
	10%	<u>Shale</u> - as above
4930-4960	60%	<u>Siltstone</u> - orange, brown, medium gray, calcareous, sandy, firm
	30%	<u>Sandstone</u> - light gray, clear, very fine grained, graded to siltstone, calcareous, silty, unconsolidated, friable
	10%	<u>Limestone</u> - light gray, white, cryptocrystalline, firm
4960-4990	40%	<u>Shale</u> - medium to dark gray, calcareous, marly, fissile, firm
	30%	<u>Siltstone</u> - as above
	20%	<u>Limestone</u> - as above
	10%	<u>Sandstone</u> - as above
4990-5020	60%	<u>Limestone</u> - medium gray, light gray, white, cryptocrystalline to very finely microcrystalline, marly, occasionally oolitic, firm, medium hard, dense
	40%	<u>Shale</u> - medium to dark brown, medium to dark gray, calcareous, marly in part, silty, blocky, fissile in part, firm, dense
5020-5050	50%	<u>Limestone</u> - as above, becoming gray, marly, waxy, firm
	50%	<u>Shale</u> - as above
5050-5080	60%	<u>Limestone</u> - light to medium gray, tan, translucent in part, cryptocrystalline to very finely microcrystalline, marly, lithic, chalky in part, dense, firm
	40%	<u>Shale</u> - as above Trace Pyrite
5080-5110		Very Poor Sample
	50%	<u>Limestone</u> - white, light gray, cryptocrystalline, sandy, marly, firm
	30%	<u>Shale</u> - as above
	20%	<u>Sandstone</u> - light to medium gray, white, very fine grain, graded to siltstone, calcareous, unconsolidated

5110-5140	60%	<u>Shale</u> - dark gray, very marly, very finely microcrystalline, micaceous, blocky, slightly fissile, medium hard
	40%	<u>Limestone</u> - light to medium gray, white, cryptocrystalline, very finely microcrystalline, marly in part, chalky in part, slightly siliceous, lithic, medium hard, hard, dense
5140-5170	80%	<u>Shale</u> - medium to dark gray black, calcareous, marly, fissile, firm
	20%	<u>Limestone</u> - as above
5170-5200	50%	<u>Shale</u> - as above, becoming dark gray, marly, finely micaceous, slightly fissile, blocky, medium hard
	50%	<u>Limestone</u> - medium gray, dark gray, marly, dense, medium hard
5200-5230	90%	<u>Shale</u> - dark gray to black, calcareous, fissile, firm
	10%	<u>Limestone</u> - as above
5230-5260	60%	<u>Limestone</u> - white, light to medium gray, tan, translucent, cryptocrystalline, very finely microcrystalline, chalky in part, occasionally very finely micaceous, pyritic, siliceous in part, some marly, dense, firm medium hard
	40%	<u>Shale</u> - as above
5260-5290	80%	<u>Shale</u> - dark gray, calcareous to very marly, brittle, slightly fissile, medium hard
	20%	<u>Limestone</u> - as above, becoming more marly
5290-5320	90%	<u>Limestone</u> - medium gray, cryptocrystalline, marly, micaceous, argillaceous, dense, firm to medium hard
	10%	<u>Shale</u> - as above
		Trace Chert - clear, white
5320-5350	60%	<u>Limestone</u> - as above, tan, siliceous, some medium gray, argillaceous
	40%	<u>Shale</u> - medium to dark gray, predominately marly, very calcareous, soft to medium hard
5350-5380	90%	<u>Limestone</u> - medium gray, dark gray, some light gray, cryptocrystalline, very finely microcrystalline, pyritic, marly in part, argillaceous, occasionally fossiliferous, firm, medium hard
	10%	<u>Shale</u> - as above
5380-5400	80%	<u>Shale</u> - dark gray, medium gray, very marly, calcareous, very finely micaceous, blocky, brittle, medium-hard
	20%	<u>Limestone</u> - as above, medium to dark gray, graded to marlstone
5400-5420	70%	<u>Limestone</u> - light to medium gray, white, tan, cryptocrystalline, very finely microcrystalline, marly, occasionally lithic and sandy, micaceous, firm, medium hard, dense
	20%	<u>Sandstone</u> - clear, white, very fine grain, calcareous, graded to siltstone, friable, firm, tight
	10%	<u>Shale</u> - as above
5420-5440	90%	<u>Shale</u> - dark gray to black, calcareous, slightly carbonaceous in part, silty, fissile, splintery in part, firm
	10%	<u>Limestone</u> - as above
		Trace Chert - tan, Trace Pyrite

5440-5460	50%	<u>Shale</u> - dark gray, graded to marlstone, brittle, medium hard
	50%	<u>Limestone</u> - light to medium gray, marly, argillaceous, firm, medium hard, dense
		Trace Chert - clear
5460-5480	90%	<u>Shale</u> - black, dark gray, calcareous, slightly carbonaceous, silty, some finely micaceous, some argillaceous, fissile, firm
	10%	<u>Limestone</u> - as above, pyritic, argillaceous
5480-5520	70%	<u>Shale</u> - as above
	30%	<u>Limestone</u> - as above, pyritic, argillaceous, marly
		Trace Coal - black, sub-bituminous
5520-5540	100%	<u>Limestone</u> - light gray, white, tan, cryptocrystalline, chalky, slightly anhydritic, occasionally slightly siliceous, firm, medium hard, hard, dense
5540-5560	90%	<u>Shale</u> - dark gray, occasionally black, marly, very calcareous, silty, firm, fissile
	10%	<u>Limestone</u> - as above, becoming medium gray, marly
5560-5600	90%	<u>Limestone</u> - medium brown, tan, light gray, white, cryptocrystalline, occasionally very finely microcrystalline, small trace microfracture and recrystallization, siliceous in part, medium hard, hard, dense
	10%	<u>Shale</u> - as above, becoming medium gray, very marly, pyritic
5600-5620	60%	<u>Shale</u> - medium to dark gray, graded to marlstone, slightly dolomitic, micaceous, blocky, brittle, firm, medium hard
	40%	<u>Limestone</u> - as above, becoming gray color and more argillaceous, marly, pyritic
5620-5640	40%	<u>Shale</u> - as above
	30%	<u>Chert</u> - dark gray to brown, hard
	30%	<u>Limestone</u> - as above, fossiliferous in part
5640-5660	90%	<u>Limestone</u> - white, light gray, tan, cryptocrystalline, chalky in part, siliceous, medium hard, hard, dense
	10%	<u>Chert</u> - tan, clear, translucent, hard
5660-5680	100%	<u>Limestone</u> - as above, slightly darker gray, slightly dolomitic, firm
5680-5700	100%	<u>Limestone</u> - medium gray, cryptocrystalline, marly, fossiliferous, pyritic, slightly micaceous, firm, medium hard, dense
		Trace Chert - tan, translucent, hard
5700-5710	80%	<u>Limestone</u> - medium to dark gray, cryptocrystalline, very finely microcrystalline, very marly, argillaceous, firm, medium hard, dense
	20%	<u>Shale</u> - black, dark gray, calcareous, carbonaceous, silty, firm, medium hard
5710-5720	70%	<u>Shale</u> - black, dark gray, carbonaceous, silty, firm
	30%	<u>Limestone</u> - medium to dark gray, marly, argillaceous, soft to firm
5720-5730	40%	<u>Limestone</u> - light to medium gray, some dark gray to brown, cryptocrystalline, anhydritic, marly, firm to medium hard, dense

5720-5730 (cont.)	40%	<u>Shale</u> - as above
	20%	<u>Anhydrite</u> - white, soft
5730-5740	70%	<u>Limestone</u> - medium gray, dark gray, predominately cryptocrystalline, occasionally very finely microcrystalline, marly, argillaceous, firm, medium hard, dense
	20%	<u>Anhydrite</u> - white, soft
	10%	<u>Shale</u> - as above
5740-5750		Very Poor Sample
	80%	<u>Limestone</u> - medium gray, medium brown, cryptocrystalline, some very finely to finely microcrystalline, some marly, some dolomitic, sucrosic, friable, fossiliferous, firm, small trace pin point $\emptyset$ , light to brown staining on crystalline faces
	10%	<u>Anhydrite</u> - white, soft
	10%	<u>Shale</u> - as above
5750-5760		Very Poor Sample
	60%	<u>Limestone</u> - medium gray to brown, light gray, cryptocrystalline, some very finely microcrystalline, marly and argillaceous in part, some dolomitic, slightly friable, firm, some light brown stain on $\emptyset$ faces, very faint light yellow-blue fluorescence, faint diffuse yellow-blue cut
	20%	<u>Anhydrite</u> - white, soft
	20%	<u>Shale</u> - black, dark gray, calcareous, carbonaceous, silty, firm
5760-5770	100%	<u>Limestone</u> - light to medium gray, tan to medium brown, cryptocrystalline, very finely to finely microcrystalline, dolomitic, fossiliferous debris with preferential leaching, slightly dolomitic, sucrosic, friable, firm, medium brown to dark brown staining, very faint yellow-blue fluorescence, evaporates very fast, very faint yellow-blue cut Abundant Cavings
5770-5780	100%	<u>Limestone</u> - light to medium gray, tan, brown, cryptocrystalline, very finely to finely microcrystalline, dolomitic in part, some sucrosic, occasional anhydrite/calcite fill, porosity is drusy with dolomite rhomb crystals, fossiliferous, friable, firm, medium hard, medium brown to black even oil stain on $\emptyset$ faces, light yellow-blue fluorescence, fast streaming yellow-blue cut, good visible $\emptyset$
5780-5790	100%	<u>Limestone</u> - as above
5790-5800		Very Poor Sample, abundant cavings
	100%	<u>Limestone</u> - as above, yellow-blue fluorescence is becoming brighter, 20-30% in total sample good vuggy, intercrystalline, and pin point $\emptyset$ throughout
5800-5810		Very Poor Sample, abundant cavings
	100%	<u>Limestone</u> - white, light to medium gray, cryptocrystalline, very finely to moderately microcrystalline, fossiliferous debris with preferential leaching appears more abundant, some anhydrite/calcite fill, slightly dolomitic, sucrosic in part, slightly friable, firm to medium hard, even brown to black stain, good visible $\emptyset$ , even yellow-blue fluorescence, yellow-blue streaming milky cut
5810-5820	100%	<u>Limestone</u> - as above

5820-5840	100%	<u>Limestone</u> - light gray, white, occasionally medium gray, translucent in part, cryptocrystalline, some very finely to finely microcrystalline, occasionally chalky, less crystalline size and structure, firm, less visible $\emptyset$ , some light to dark brown stain, however less consistent and lighter color, some light yellow fluorescence, diffuse yellow cut
5840-5850	100%	<u>Limestone</u> - white, light gray, cryptocrystalline, very finely microcrystalline, chalky, fossiliferous, anhydritic, soft, firm, predominately tight, some pin point $\emptyset$ , trace oil stain, yellow mineral fluorescence, some yellow-blue oil fluorescence, milky yellow diffuse cut
5850-5860	100%	<u>Limestone</u> - medium gray, tan, light gray, cryptocrystalline, very finely microcrystalline, chalky and argillaceous in part, very dolomitic, marly, firm to medium hard, dense, tight, no visible $\emptyset$ , some mineral fluorescence, show fluorescence decreased, very diffuse light blue cut
5860-5870	100%	<u>Limestone</u> - white, light gray, cryptocrystalline, very finely microcrystalline, chalky, occasionally sucrosic and slightly friable, fossiliferous, soft to firm, trace pin point vuggy $\emptyset$ , very light brown stain, trace yellow oil fluorescence, some yellow mineral fluorescence, no visible cut
5870-5880	100%	<u>Limestone</u> - as above, abundant mineral fluorescence, no oil staining or fluorescence, no cut
5880-5920	100%	<u>Limestone</u> - white, light gray, tan, translucent in part, cryptocrystalline to very finely microcrystalline, calcite/anhydrite fill, chalky, soft to firm, medium hard, predominately dense, trace visible $\emptyset$ , some mineral fluorescence, NSOC
5920-5930	90%	<u>Limestone</u> - medium gray, light gray, cryptocrystalline, marly, argillaceous, soft, firm, medium hard, dense, tight
	10%	<u>Shale</u> - black, calcareous, carbonaceous, silty, firm, fissile
5930-5950	90%	<u>Shale</u> - black, dark gray, calcareous, carbonaceous, silty, fissile, firm
	10%	<u>Limestone</u> - as above
5950-5960	80%	<u>Shale</u> - as above
	20%	<u>Limestone</u> - medium gray to brown, cryptocrystalline, argillaceous and marly, firm, dense
5960-5970	70%	<u>Limestone</u> - as above, dolomitic, marly, firm, medium hard
	30%	<u>Shale</u> - as above
5970-5980	70%	<u>Limestone</u> - medium gray, light gray, cryptocrystalline, very finely microcrystalline, marly, dolomitic, firm, medium hard
	30%	<u>Anhydrite</u> - white, soft
5980-5990	60%	<u>Anhydrite</u> - white, soft
	40%	<u>Limestone</u> - as above
5990-6000	80%	<u>Limestone</u> - medium to dark gray, light gray, cryptocrystalline to very finely microcrystalline, marly and argillaceous, dolomitic, anhydritic, firm, medium hard, dense, NFSOC
	10%	<u>Shale</u> - black, carbonaceous, fissile, firm

5990-6000 (cont.)	10%	<u>Anhydrite</u> - as above
6000-6020	80%	<u>Shale</u> - black, dark gray, calcareous, carbonaceous, silty, firm, fissile
	20%	<u>Limestone</u> - as above
6020-6030	50%	<u>Shale</u> - as above
	50%	<u>Limestone</u> - light to medium gray, mottled, cryptocrystalline to very finely microcrystalline, dolomitic in part, marly, argillaceous, firm, medium hard, dense
		Trace Anhydrite
6030-6040	80%	<u>Limestone</u> - light to medium gray, cryptocrystalline to very finely microcrystalline, dolomitic, anhydritic, argillaceous and marly in part, firm, medium hard, dense
	20%	<u>Shale</u> - as above, becoming dark gray and marly
		Trace Chert - medium brown, translucent
6040-6050	60%	<u>Limestone</u> - as above, becoming white, light gray, chalky
	30%	<u>Anhydrite</u> - white, soft
	10%	<u>Shale</u> - as above
6050-6060	80%	<u>Limestone</u> - light to medium gray, medium gray to brown, cryptocrystalline, dolomitic, occasionally slightly pyritic, slightly argillaceous and marly, firm, medium hard, dense
	20%	<u>Shale</u> - as above
6060-6070	50%	<u>Shale</u> - black, dark gray, calcareous, carbonaceous, firm, medium hard
	50%	<u>Limestone</u> - as above, very argillaceous, marly, soft, firm
6070-6080	70%	<u>Limestone</u> - medium gray, dark gray, cryptocrystalline, very finely microcrystalline, dolomitic, anhydritic, argillaceous, marly, firm, medium hard, dense
	20%	<u>Shale</u> - as above
	10%	<u>Anhydrite</u> - white, soft
6080-6090	90%	<u>Limestone</u> - as above
	10%	<u>Shale</u> - as above
6090-6100	80%	<u>Shale</u> - black, dark gray, calcareous, slightly dolomitic, carbonaceous in part, very argillaceous, soft to firm, fissile in part
	20%	<u>Limestone</u> - as above, medium gray, very argillaceous
		Trace Anhydrite - 5%
6100-6110	70%	<u>Shale</u> - black, dark gray, medium gray, calcareous, carbonaceous, silty, argillaceous, firm, fissile
	30%	<u>Limestone</u> - light gray, tan, cryptocrystalline, very finely microcrystalline, dolomitic, anhydritic, firm, trace vuggy $\emptyset$ , dark brown to black oil stain, yellow to blue fluorescence, very weak yellow-blue cut
6110-6120	90%	<u>Shale</u> - as above
	10%	<u>Limestone</u> - light gray, white, medium gray, argillaceous, chalky, slightly fossiliferous, soft to firm, dense

6120-6130	80%	<u>Limestone</u> - medium gray, cryptocrystalline, argillaceous, marly, dolomitic, firm, medium hard, dense
	20%	<u>Shale</u> - as above
6130-6148	90%	<u>Limestone</u> - as above
	10%	<u>Shale</u> - as above
		Trace Anhydrite

**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. ....

012905

**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, 1987.

Agent's Address 1050 - 17th Street, Suite 400 Company QUINTANA PETROLEUM CORPORATION  
Denver, Colorado 80265 Signed [Signature]  
 Phone No. (303) 628-9211 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 NW SE	37S	24E	#1-20							43-037-31293  Drilled to 6149'. Ran production pipe. Now waiting on hookup to production facilities (a/o 1/26/87).  <div style="text-align: center; font-size: 24pt; font-weight: bold; opacity: 0.5;">CONFIDENTIAL</div>

RECEIVED  
 JAN 28 1987  
 DIVISION OF  
 OIL, GAS & MINING

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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.

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

5. LEASE DESIGNATION AND SERIAL NO.

U-57469 **021800** 10

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.

#1-20

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

Section 20, T37S-R24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

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. RESRV.  Other \_\_\_\_\_

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)\*

At surface 2180' FSL & 2030' FEL (NW SE)

At top prod. interval reported below

Same

At total depth

Same

14. PERMIT NO. 43-037-31293 DATE ISSUED 12/3/86

**CONFIDENTIAL**

15. DATE SPUNDED 12/14/86 16. DATE T.D. REACHED 12/24/86 17. DATE COMPL. (Ready to prod.) 1/24/87 18. ELEVATIONS (DF, RKB, RT, CE, ETC.)\* 5565' GR 19. ELEV. CASINGHEAD 5565'

20. TOTAL DEPTH, MD & TVD 6149' 21. PLUG, BACK T.D., MD & TVD 6068' PBTD 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY → 0'-6149' ROTARY TOOLS CABLE TOOLS N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 5800'-5812' - Ismay 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL/MSFL/GR; LDT/CNL/GR/Caliper; BHC/Sonic/GR/Caliper; CBL/VDL/GR/CCL; and CET 27. WAS WELL CORED No

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36#	2001.26'	12 1/4"	560 sxs Lite, 200 sxs "G" & 50 sxs "B" in annulus	None
5 1/2"	15.5# & 17#	6145.52'	8 3/4"	474 sxs "H"	None

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET, (MD)
N/A					2 7/8"	5717.99'	5751.56' (top)

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5800'-5812'	4" casing gun, 4 jspf.	5800'-5812'	1300 gal 15% HCL w/Lo-Surf 300, HC-2, HAI-60 & FE-2

33. PRODUCTION  
DATE FIRST PRODUCTION 1/16/87 - tested to frac tank PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) SI

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1/22/87	24	18/64"	→	450	2.5 MMCF	-0-	5556
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
1720	---	→	450 BOPD	2.5 MMCFPD	-0-	47.1°	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Will sell or re-inject TEST WITNESSED BY Jim Turner, Bob 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 2/10/87

cc: State of Utah (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):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
DST #1: 5740' - 5776' (Ismay)					Estimated	Actual
IHP 2848				Dakota	Surface	---
IFP 2244-2265				Navajo	1004'	---
ISIP 2452				Wingate	1577'	---
FHP 2828				Chinle	1847'	1846'
Sampler: 1500 psi, 0.15 cu.ft. gas, 30 cc cond.				Shinarump	2542'	---
Pipe recovery: 6.6 bbl condensate cut mud (approx. 90% mud)				Hermosa	4686'	4522'
				Upper Ismay	5748'	5724'
				Hovenweep Shale	5832'	5925'
				Lower Ismay	5957'	5953'
				Gothic Shale	6002'	5995'
				Desert Creek	6028'	6025'
				Chimney Rock Sh.	6108'	6093'
				Akah	6123'	6110'
				Salt	6147'	6147'

**RECEIVED**  
FEB 12 1987

DIVISION OF  
OIL, GAS & MINING

**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, 1987.

Agent's Address 1050 - 17th Street, Suite 400 Company QUINTANA PETROLEUM CORPORATION  
Denver, Colorado 80265 Signed *[Signature]*  
 Phone No. (303) 628-9211 Title Production Technician

Sec. and 1/4 of 1/4	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 and result of test for gasoline content of gas)
Sec. 20 NW SE	37S	24E	#1-20							43-037-31293  Well shut in. Waiting on facilities and gas market.

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 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.

**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. ....

**030228**

**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 Company QUINTANA PETROLEUM CORPORATION  
Denver, Colorado 80265 Signed *Mullins*  
 Phone No. (303)628-9211 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 NW SE	37S	24E	#1-20							43-037-31293  Well shut in. Waiting on facilities and gas market.

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.

RECEIVED

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 12 1988

SUNDRY NOTICES AND REPORTS ON AUG 12 1988

Form approved Budget Bureau No. 1004-101 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 13. STATE

San Juan

Utah

(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.)

DIVISION OF

OIL, GAS & MINING

DIVISION OF

OIL, GAS & MINING

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.)

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

Vertical box for Test Water Shut-off

PULL OR ALTER CASING

Vertical box for Pull or Alter Casing

WATER SHUT-OFF

Vertical box for Water Shut-off

REPAIRING WELL

Vertical box for Repairing Well

FRACTURE TREAT

MULTIPLE COMPLETION

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:

Table with columns: Date, Amount, Hauled By, Disposal Pit. Rows: 4/25/88 (200 bbls, Wrightway Trucking, Hatch Disposal), 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)

Accepted by the State of Utah Division of Oil, Gas and Mining

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Federal Approval of this Action is Necessary

Date: 8-16-88

cc: State of Utah - DOGM

Federal Approval of this Action is Necessary

\*See Instructions on Reverse Side

By:

[Signature]

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

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

**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.)

5. LEASE DESIGNATION AND SERIAL NO  
**UTU-57469**

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

7. UNIT AGREEMENT NAME  
**Deadman (Upper Ismay) Unit**

8. FARM OR LEASE NAME  
**DEADMAN CANYON FEDERAL**

9. WELL NO.  
**#1-20**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. SEC., T., E., M., OR BLE. AND SURVEY OR AREA  
**Section 20, T37S-R24E**

12. COUNTY OR PARISH | 13. STATE  
**San Juan | Utah**

**10**

1. OIL WELL  GAS WELL  OTHER   
**OIL, GAS & MINING**

2. NAME OF OPERATOR  
**QUINTANA PETROLEUM CORPORATION (303)628-9111**

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  
**2180' FSL & 2030' FEL  
NW SE Section 20**

14. PERMIT NO. **43-037-31293** 15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5565' GR**

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Conversion to Gas Injection</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(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.)\*

Converted well to gas injection well in the following manner:

1. POOH with tubing. Set packer at 5750'.
2. Squeeze perforations at 5831'-5848'.
3. WOC. Drilled cement out to 5788'.
4. Perforated Ismay 5748'-5770' with 3 3/8" gun, 4 jspf.
5. Set packer. Acidize perfs with 500 gal 15% HCl.
6. Rig released 8/13/89.

Now waiting on compressor installation. Estimate first injection to be 9/15/89.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
2-TAS	
MICROFILM	
3- FILE	

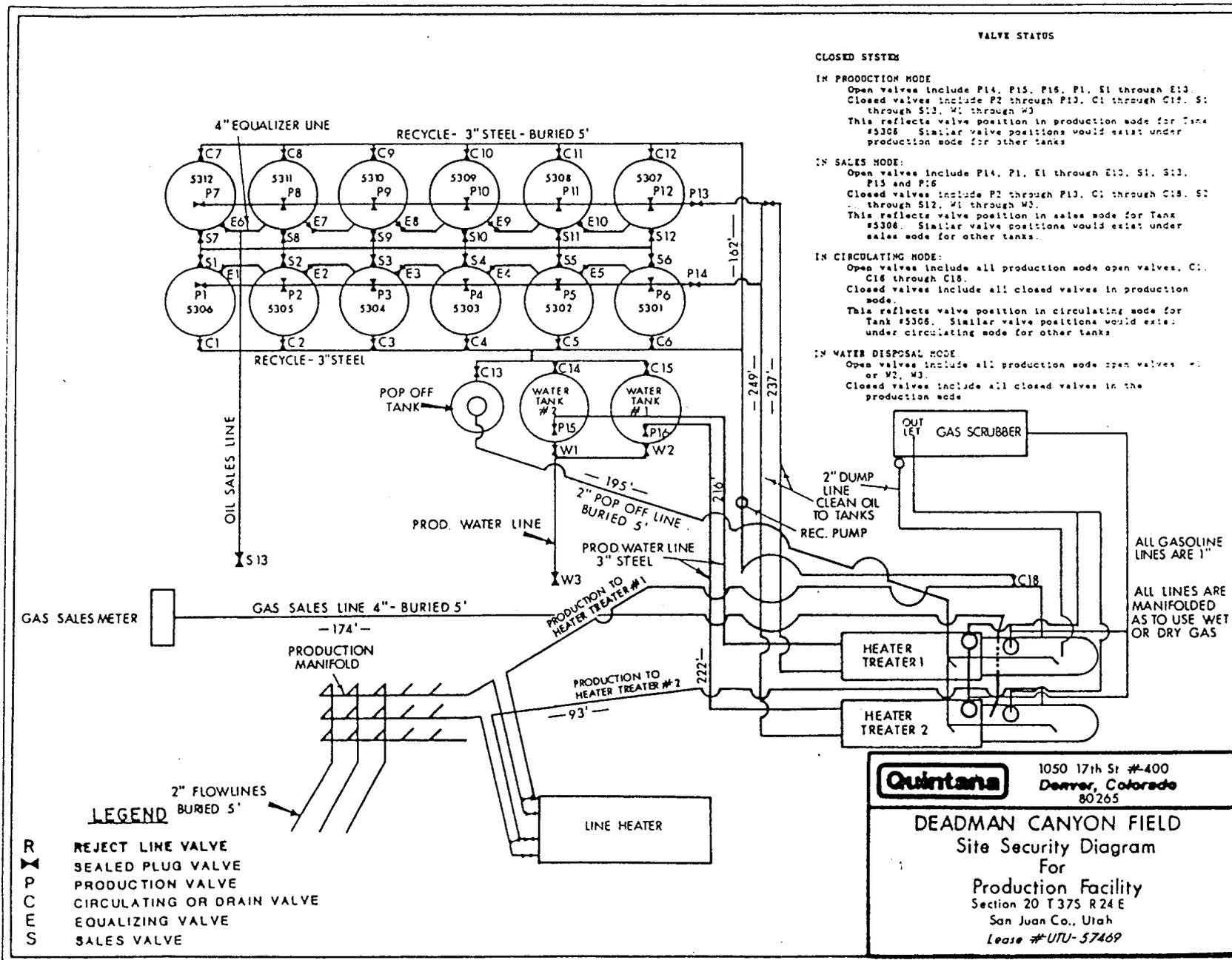
18. I hereby certify that the foregoing is true and correct  
SIGNED Jm Williams TITLE Production Technician DATE 8/29/89

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: State of Utah DOGM

\*See Instructions on Reverse Side



VALVE STATUS

- CLOSED SYSTEM**
- IN PRODUCTION MODE**  
 Open valves include P14, P15, P16, P1, E1 through E13.  
 Closed valves include P2 through P13, C1 through C15, S1 through S13, W1 through W3.  
 This reflects valve position in production mode for Tank #3308. Similar valve positions would exist under production mode for other tanks.
- IN SALES MODE:**  
 Open valves include P14, P1, E1 through E13, S1, S13, P15 and P16.  
 Closed valves include P2 through P13, C1 through C15, S2 through S12, W1 through W3.  
 This reflects valve position in sales mode for Tank #3308. 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 #3306. Similar valve positions would exist under circulating mode for other tanks.
- IN WATER DISPOSAL MODE**  
 Open valves include all production mode open valves, W1, W2, W3.  
 Closed valves include all closed valves in the production mode.

- LEGEND**
- R REJECT LINE VALVE
  - X 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 Field*  
 37 S 24 E Sec 20



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

August 11, 1992

Quintana Petroleum Corporation  
1325 South Colorado Blvd., #B-411  
Denver, Colorado 80222

Gentlemen:

Re: Pressure Test for Mechanical Integrity, Class II Injection Wells in the Deadman Canyon Unit, San Juan County, Utah

The Underground Injection Control Program which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. It has been past policy of the Division to require pressure testing of all Class II salt water disposal wells and other injection wells not reporting monthly annulus pressures in accordance with rule R649-5-5.3 of the Oil and Gas Conservation General Rules. This rule requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five year period beginning October, 1982. Our records indicate the above referenced wells are due for testing for the second five year period. Attached is a list of wells which need to be tested according to our records. Please make arrangements and ready the wells for testing during the week of September 21, 1992 as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as personnel to assist in opening valves etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the wells to be tested on this date the tests may be rescheduled.

Page 2  
Pressure Test  
August 11, 1992

4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.
5. All bradenhead valves with exception of the tubing on the injection wells must be shut in 24 hours prior to testing.

Please contact Mr. Dan Jarvis at (801)538-5340 to arrange a meeting time and place or negotiate a different date if this one is unacceptable.

Sincerely,



Gil Hunt  
UIC Program Manager

ldc  
Attachment  
WOI52

**WELLS TO BE TESTED**

#1-20



**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	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 Apr. 1-25-95
LITTLE BONANZA 1-4 4304731854 10937 09S 24E 4	NESE WSTC			U-54017	(C.A. UTU71692)	Blm Apr. 1-25-95
BADLANDS FEDERAL 1-31 4304731857 10960 08S 23E 31	MVRD			U-61401	(Badlands Unit)	Blm Apr. 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 Apr. 1-25-95
Deadman Cn. 1-20 *4303731293 10696 37S 24E 20	ISMY / GIW			U-57469	(Deadman Unit)	"
<b>TOTALS</b>						

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

Date: \_\_\_\_\_

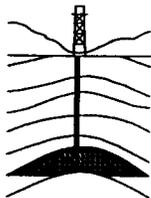
Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

**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.

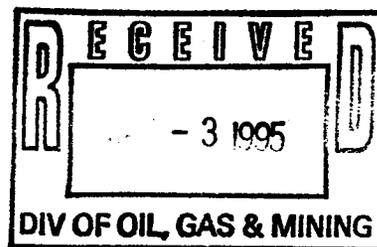
Sincerely,

A handwritten signature in cursive script that reads "Jodie Sundquist".

**Jodie Sundquist  
Production/Operation Technician**

/jls

Enclosure



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

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Gas Injection Well	5. Lease Designation and Serial No. UTU58818A
2. Name of Operator Ballard & Associates	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. 518 - 17th Street, Suite 1180, Denver, CO 80202 (303)595-8515	7. If Unit or CA. Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2180' FSL & 2030' FEL NW SE Section 20, T37S-R24E	8. Well Name and No. DEADMAN CANYON FED. #1-20
	9. API Well No. 43-037-31293
	10. Field and Pool, or Exploratory Area Wildcat
	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
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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 thereof under Bureau of Land Management Bond UT 1005 issued by Norwest Bank Billings letter of credit.

Seller/Owner/Lessee Name: QUINTANA PETROLEUM CORPORATION

Date: December 7, 1994

Signed: Jmsneider

cc: Utah DOGM

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

Signed H. J. Kagge 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.



State of Utah  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
 Governor  
 Ted Stewart  
 Executive Director  
 James W. Carter  
 Division Director

355 West North Temple  
 3 Triad Center, Suite 350  
 Salt Lake City, Utah 84180-1203  
 801-538-5340  
 801-359-3940 (Fax)  
 801-538-5319 (TDD)

UTAH DIVISION OF OIL, GAS AND MINING  
 FACSIMILE COVER SHEET

DATE: Jan. 5, 1995  
 FAX # (303) 595-8601  
 ATTN: Jodie Sundquist (303) 595-8515  
 COMPANY: Ballard & Associates  
 FROM: Lisle Cordova  
 DEPARTMENT: Oil & Gas

NUMBER OF PAGES BEING SENT (INCLUDING THIS ONE): 2

If you do not receive all of the pages, or if they are illegible, please call (801) 538-5340.

We are sending from a Murata facsimile machine. Our telecopier number is (801) 359-3940.

MESSAGES:

Request UIC F5, signed by both operators, for the  
Deadmen Canyon Fed. 1-20 well. (Gas Injection Well)  
Any questions, please call!

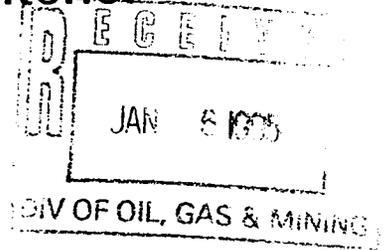
950126 Reg. UIC F5/2nd Reg.

Important: This message is intended for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this original message to us at the above addressed via regular postal service. Thank you.

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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



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

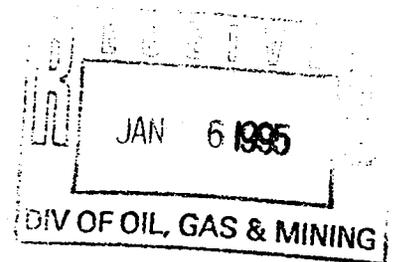
\*\* INSPECTION ITEM UTU58818A

DEADMAN CANYON (UPPER ISMAY)

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

QUINTANA PETROLEUM CORPOR  
QUINTANA PETROLEUM CORPOR  
QUINTANA PETROLEUM CORPOR  
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



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,

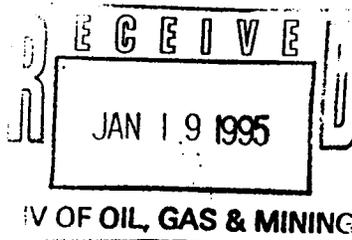
/s/ Robert A. Henricks

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



JAN 13 1995

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Deadman Canyon Federal #1-20  
Field or Unit name: Deadman Canyon Field API no. 43-037-31293  
Well location: QQ NWSE section 20 township 37S range 24E county San Juan  
Effective Date of Transfer: December 1, 1994

CURRENT OPERATOR

Transfer approved by:

Name E. J. PREJEAN Company QUINTANA PETROLEUM CORPORATION  
Signature *E. J. Prejean* Address P. O. BOX 3331, HOUSTON, TX  
Title MANAGER, PURCH./PROD. ADMIN. 77253  
Date JANUARY 10, 1995 Phone ( 713 ) 651-8813

Comments:

NEW OPERATOR

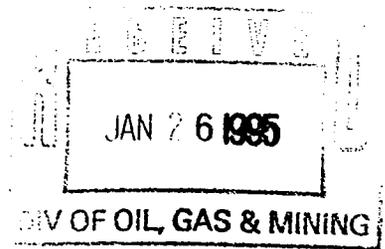
Transfer approved by:

Name H. J. Kagie Company Ballard & Associates, Inc.  
Signature *H. J. Kagie* Address 518 17th Street, #1180  
Title Vice President Denver, Colorado 80202  
Date January 5, 1995 Phone ( 303 ) 595-8515

Comments:

(State use only)  
Transfer approved by *M. H. J.* Title *Environ. Manager*  
Approval Date 2-8-95 CAUSE # 218-1

United States Department of the Interior  
**BUREAU OF LAND MANAGEMENT**  
Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155



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

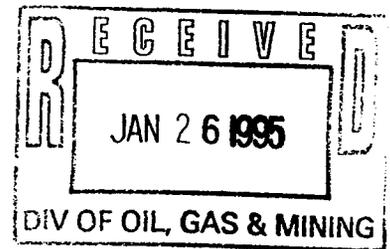
Robert A. Henricks  
Chief, Branch of Fluid Minerals

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

United States Department of the Interior  
BUREAU OF LAND MANAGEMENT  
Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155



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)  
~~Division of Oil, Gas & Mining~~  
File - CA UTU71692 (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron  
Fluid Chron

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

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

1- <del>REC</del> <del>1-3-95</del>
2- LWF 7-PL
3- <del>BTS</del> 8-SJ
4- <del>VLC</del> 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.

- 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)	<u>BALLARD &amp; ASSOCIATES INC</u>	FROM (former operator)	<u>QUINTANA PETROLEUM CORP</u>
(address)	<u>518 - 17TH ST STE 1180</u>	(address)	<u>1325 S COLORADO BLVD B411</u>
	<u>DENVER CO 80202</u>		<u>DENVER CO 80222</u>
	<u>JODIE SUNDQUIST</u>		<u>JEANNIE SNIDER</u>
	phone ( <u>303</u> ) <u>595-8515</u>		phone ( <u>303</u> ) <u>629-9559</u>
	account no. <u>N 0895 (1-30-95)</u>		account no. <u>N 9485</u>

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

Name: <b>**SEE ATTACHED**</b>	API: <u>037-31293</u>	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____

**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) 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.

ENTITY REVIEW

Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) 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 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

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

N/A 3. The former operator has requested a release of liability from their bond (yes/no) N/A. Today's date 2/9/95 1995. If yes, division response was made by letter dated 2/9/95 1995.

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 2/9/95 1995, 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.

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 1995.

FILING

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

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

COMMENTS

Bym Aprv. eff. 1-25-95

## 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			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓	NORTH CHAPITA FED. 1-36		MVRD			456960	Bedlands Unit	
4304731795	10745	08S 22E 36						
✓	BADLANDS FEDERAL 1-31		MVRD			461401	"	
4304731857	10960	08S 23E 31						
✓	CABALLO UNIT 1-15		ISMY			462953	Cabello Unit	
4303731403	10994	36S 23E 15						
✓	DEADMAN CANYON FEDERAL 2-20		ISMY			457469	Deadman (Upper Ismay) Unit	
4303731303	11010	37S 24E 20						
✓	DEADMAN CANYON 3-20					457469	"	
4303731304	11010	37S 24E 20						
✓	DEADMAN CANYON FED 1-28		ISMY			449678	"	
4303731306	11010	37S 24E 28						
✓	BADLANDS FEDERAL 1-32		MVRD			456965	Bedlands Unit	
4304731869	11627	08S 23E 32						
✓	Deadman Cyn. Fed. 1-20		ISMY / GIW			457469	Deadman (Upper Ismay) Unit	
4303731293	10696	37S 24E 20						
<b>TOTALS</b>								

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge. Date: \_\_\_\_\_  
 Name and Signature: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

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 )
CITY AND COUNTY OF DENVER ) SS

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:

Table with 4 columns: Name of Entity, Jurisdiction of Organization, Form of Entity, Manager or General Partner. Rows include Ballard Petroleum LLC, Ballard Energy (Delaware) LLC, Ballard Energy (Delaware) LP, and Ballard Energy 1992 Limited Partnership.

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: March 22, 1999

Jacquie Myers  
Notary Public



**BALLARD PETROLEUM LLC**

621 17th Street,  
Suite 1800  
Denver, Colorado 80293

**W. W. Ballard**  
President, Director  
  
Billings, Montana



(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 : Oil and Gas  
1050 Seventeenth Street, Suite 2500 :  
Denver, CO 80265 :

### 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.

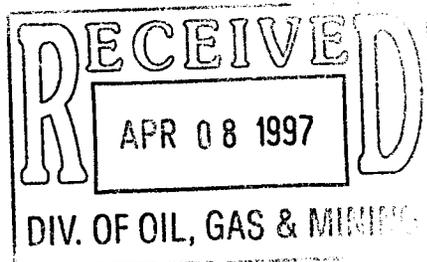
	U-20544	Deadman-U-57469	Ceballos-U-62953	U-62073 (ROW)
Deadman-U-49678	U-58726		UTU-64422	U-63959 (ROW)
	U-54017	U-61400	UTU-65471	U-63980 (ROW)
Bedlands-U-56960	Bedlands-U-61401		UTU-65472	U-63996 (ROW)
Bedlands-U-56965	U-62252		U-59127 (ROW)	UTU-65118 (ROW)

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



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

# OPERATOR CHANGE WORKSHEET

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

Routing	
1-LEC ✓	6-LAC ✓
2-GLH ✓	7-KAS ✓
3-BTS ✓	8-SI ✓
4-VLD ✓	9-FILE ✓
5-JRB ✓	

- 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: 3-20-97

TO: (new operator)	<u>BALLARD PETROLEUM LLC</u>	FROM: (old operator)	<u>BALLARD &amp; ASSOCIATES INC</u>
(address)	<u>621 17TH ST STE 1800</u>	(address)	<u>518 17TH ST STE 400</u>
	<u>DENVER CO 80293</u>		<u>DENVER CO 80202</u>
Phone:	<u>(303)675-0300</u>	Phone:	<u>(303)675-0300</u>
Account no.	<u>N2310 (7-18-97)</u>	Account no.	<u>N0895</u>

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

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

## OPERATOR CHANGE DOCUMENTATION

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)*
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)*
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 (e.H. 3-17-97)*
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.
5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. *(7-18-97) #UIC Program Updated.*
6. Cardex file has been updated for each well listed above. *(7-18-97)*
7. Well file labels have been updated for each well listed above. *(7-18-97)*
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)*
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.

**ENTITY REVIEW**

- Yes 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) yes 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/Yes 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.  
DCS  
2/21/97
- 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**

- Yes 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 Appr. eff. 3-20-97. (No official "Unit Operator Changes" copy of BLM Appr. merger letter will be filed in unit files)

INJECTION WELL - PRESSURE TEST

Well Name: DEADMAN CANYON 1-20 API Number: 43-037-31293  
 Qtr/Qtr: NW SE Section: 20 Township: 37 SOUTH Range: 24 EAST  
 Company Name: BALLARD PETROLEUM  
 Lease: State \_\_\_\_\_ Fee \_\_\_\_\_ Federal  Indian \_\_\_\_\_  
 Inspector: M. HEBERTSON Date: 8-SEP-1999

Initial Conditions:

Tubing - Rate: 2.7 MMCF/D Pressure: 1150-1200 psi  
 Casing/Tubing Annulus - Pressure: 0/1200 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>1050</u>	<u>1200</u> 11:30 AM
5	<u>1050</u>	<u>1200</u>
10	<u>1050</u>	<u>1200</u>
15	<u>1050</u>	<u>1200</u>
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 1200 psi  
 Casing/Tubing Annulus Pressure: 0 psi

COMMENTS: BLEED BACK PRESSURE AFTER FIRST TIME TO PRESSURE UP  
LOST 150# IN 5 MIN. RE PRESSURE LOST 100# IN 5 MIN BLEED BACK +  
PLUG VALVE PRESSURE GAUGE AT WELL HEAD. RE PRESSURE TEST. BEGAN @  
11:30 AM

Ralph Pennington  
 Operator Representative

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.

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.  
**43-037-31293**

10. Field and Pool, or Exploratory Area  
**Deadman Canyon**

11. County or Parish, State  
**SAN JUAN, Utah**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
 Oil Well  Gas Well  Other **GIW**

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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>Exception to standard calibration</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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**

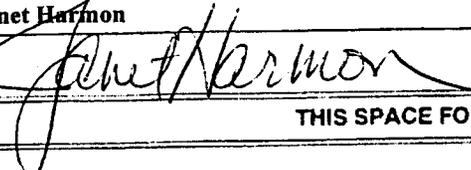
**DIVISION OF  
OIL, GAS AND MINING**

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

**Janet Harmon**

Title **Operations Assistant**

Signature



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  
Field Supervisor  
San Juan River System

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**

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**

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. *2nd 1-20*  
**Deadman Canyon 6" Run**

9. API Well No.  
*43-037-31293*

10. Field and Pool, or Exploratory Area  
**Deadman Canyon**

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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>Exception to standard calibration</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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

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  
Field Supervisor  
San Juan River System

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2001

5. Lease Serial No.  
~~UTU-38813A~~ U57469 + U49678

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

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

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

9. API Well No.  
43-039-31293

10. Field and Pool, or Exploratory Area  
Deadman Canyon

11. County or Parish, State  
SAN JUAN, Utah

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NWSW, SEC 20, T37S, R24E

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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**

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 Stanger* Assistant Field Manager, 7/7/2000  
Division of Resources  
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.

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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  
Field Supervisor  
San Juan River System

**RECEIVED**

JUL 17 2000

DIVISION OF  
OIL, GAS AND MINING

Semi-annual Gas Meter Calibration  
Ballard Petroleum, LLC  
Deadman Canyon 3-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

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

UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

Well Name and Number <b>DEADMAN CANYON FEDERAL 1-20</b>	API Number 4303731293
Location of Well Footage: 2180' FSL 2030' FEL County: SAN JUAN	Field or Unit Name UPPER ISMAY
QQ, Section, Township, Range: NWSE 20 37S 24E State: UTAH	Lease Designation and Number U-57469

**EFFECTIVE DATE OF TRANSFER:** 12/31/2001

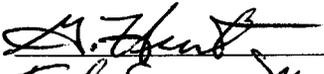
**CURRENT OPERATOR**

Company: <u>BALLARD PETROLEUM LLC</u>	Name: <u>ERIC MARSH</u>
Address: <u>950 17TH STREET, SUITE 2600</u>	Signature: 
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>TEAM LEADER, PICEANCE BASIN</u>
Phone: <u>(303) 389-5015</u>	Date: <u>1/31/2002</u>
Comments:	

**NEW OPERATOR**

Company: <u>AEC OIL &amp; GAS (USA) INC.</u>	Name: <u>ERIC MARSH</u>
Address: <u>950 17TH STREET, SUITE 2600</u>	Signature: 
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>TEAM LEADER, PICEANCE BASIN</u>
Phone: <u>(303) 389-5015</u>	Date: <u>1/31/2002</u>
Comments: <u>A MERGER OF BALLARD PETROLEUM LLC AND AEC OIL &amp; GAS (USA) INC. BECAME EFFECTIVE 12-31-01. A COPY OF THE CERTIFICATE OF MERGER IS ATTACHED. AEC OIL &amp; GAS (USA) INC, THE SURVIVING CORPORATION, WILL CONTINUE TO OPERATE UNDER BOND NO. RLB0002902 (UT-1005).</u>	

(This space for State use only)

Transfer approved by:   
Title: Tech. Services Manager

Approval Date: 2-4-02

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:  
3106  
UTU-20544 et al  
(UT-924)

FEB 01 2002

### NOTICE

AEC Oil & Gas (USA) Inc. : Oil and Gas  
950 17<sup>th</sup> 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.

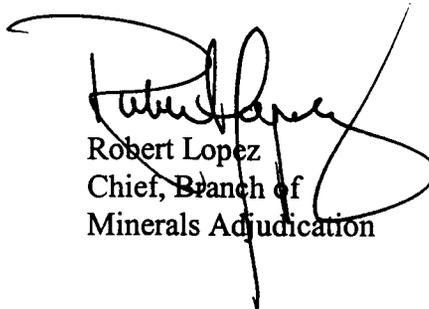
A cross reference was accomplished with our records and found that the lease UTU-58726 was not identified on your listing. We will appropriately document those files with a copy of this Notice.

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

**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:

<u>Name</u>	<u>Jurisdiction of Incorporation</u>
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.

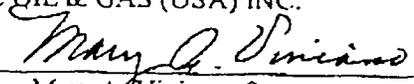
FIFTH: The merger of Mapleleaf Transactions, Inc. and Ballard Petroleum LLC into AEC Oil & Gas (USA) Inc. shall be effective on (i) 11:59 pm EST, December 31, 2001; and (ii) the day and hour of the filing of this Certificate of Merger in the office of the Secretary of State of Delaware.

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 17<sup>th</sup> 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, Secretary



## State of Delaware

010674344

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

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

12-28-2001

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 15<sup>th</sup> day of January, 2002

AEC Oil & Gas (USA) Inc.

Principal

Mac

By

Jonathan L. Grannis, Vice President,  
Rockies Exploration

RLI Insurance Company

Surety

By

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

Mary A. Xiviano  
Mary A. Xiviano, Secretary



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:

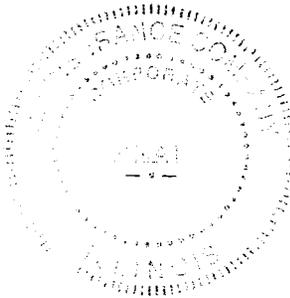
"All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. 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



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

FORM 9

**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.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>CHANGE OF OPERATOR</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: <b>BALLARD PETROLEUM LLC</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: <b>950 17TH ST, #2600</b> CITY <b>DENVER</b> STATE <b>CO</b> ZIP <b>80202</b>		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE:		8. WELL NAME and NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER:
COUNTY:		10. FIELD AND POOL, OR WILDCAT:
STATE: <b>UTAH</b>		

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> 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  DATE: 1/29/02

NAME (PLEASE PRINT) ERIC MARSH TITLE TEAM LEADER, AEC OIL & GAS (USA) INC.  
SIGNATURE  DATE 1/29/02

(This space for State use only)

**RECEIVED**

FEB 04 2002

DIVISION OF  
OIL, GAS AND MINING

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	SESW	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	SESW	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	SESW	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	SESW	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	SESW	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	SESW	26-8S-23E	UINTAH	APD
43-047-34129	FEDERAL 41-31	UTU61401	NENE	31-8S-23E	UINTAH	APD



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**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

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**COMMENTS:**

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

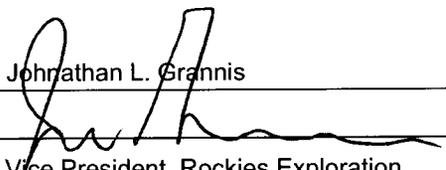
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

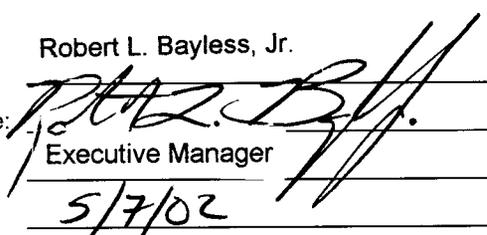
Well Name and Number Deadman Canyon Fed 1-20		API Number 4303731293
Location of Well Footage : 2180 FSL 2030 FEL County : San Juan		Field or Unit Name Deadman
QQ, Section, Township, Range: NWSE 20 37S 24E State : UTAH		Lease Designation and Number U-57469

**EFFECTIVE DATE OF TRANSFER:** 5/1/2002

**CURRENT OPERATOR**

Company: <u>AEC Oil &amp; Gas (USA) Inc.</u>	Name: <u>Johathan L. Grannis</u>
Address: <u>950 17th Street, Suite 2600</u>	Signature: 
<u>city Denver state CO zip 80202</u>	Title: <u>Vice President, Rockies Exploration</u>
Phone: <u>(303) 623-2300</u>	Date: <u>3/21/2002</u>
Comments:	

**NEW OPERATOR**

Company: <u>Robert L. Bayless, Producer LLC</u>	Name: <u>Robert L. Bayless, Jr.</u>
Address: <u>621 17th Street, Suite 1640</u>	Signature: 
<u>city Denver, CO 80293-1640</u>	Title: <u>Executive Manager</u>
Phone: <u>303-296-9900</u>	Date: <u>5/7/02</u>
Comments:	

(This space for State use only)

Transfer approved by:   
 Title: Field Services Manager

Approval Date: 6-24-02

Comments:

**RECEIVED**

JUN 03 2002

DIVISION OF  
 OIL, GAS AND MINING

173-10

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: U-57469
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:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Gas Injection</u>		7. UNIT or CA AGREEMENT NAME: Deadman (Upper Ismay)
2. NAME OF OPERATOR: <b>Robert L. Bayless, Producer LLC</b>		8. WELL NAME and NUMBER: Deadman Canyon Fed 1-20
3. ADDRESS OF OPERATOR: <b>621 17th Street, Suite 1640</b> <b>Denver, CO 80293-1640</b> STATE ZIP		9. API NUMBER: 4303731293
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2180 FSL 2030 FEL</b>		10. FIELD AND POOL, OR WILDCAT: Deadman Canyon
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSE 20 37S 24E S</b>		COUNTY: <b>San Juan</b>
		STATE: <b>UTAH</b>

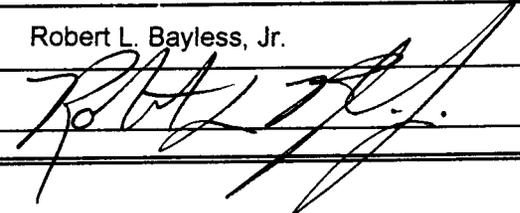
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> 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) <u>Robert L. Bayless, Jr.</u>	TITLE <u>Executive Manager</u>
SIGNATURE 	DATE <u>5/17/07</u>

RECEIVED

(This space for State use only)

**JUN 03 2002**

**DIVISION OF OIL, GAS AND MINING**

173-10

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  
5. Lease Serial No.  
UTU-57469  
6. If Indian, Allottee or Tribe Name  
7. If Unit or CA/Agreement, Name and/or No.

**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.*



1. Type of Well  
 Oil Well     Gas Well     Other -Injection Well

8. Well Name and No.  
DEADMAN CANYON FEDERAL #1-20

2. Name of Operator  
Robert L. Bayless, Producer LLC

9. API Well No.  
43-037-31293

3a. Address  
PO Box 168, Farmington, NM 87499

3b. Phone No. (include area code)  
(505) 326-2659

10. Field and Pool, or Exploratory Area  
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2180' FSL & 2030' FEL, NW 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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> 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 Huznal.

COPY SENT TO OPERATOR  
Date: 7-3-02  
Initials: CHO

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 7-2-02  
BY: [Signature]  
*Attached Conditions*

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed) THOMAS MCCARTHY Title ENGINEER  
Signature [Signature] 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

Federal Approval of this  
Application

JUN 10 2002

DIVISION OF  
OIL, GAS AND MINING

**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.

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**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other -Injection Well	5. Lease Serial No. UTU-57469
2. Name of Operator Robert L. Bayless, Producer LLC	6. If Indian, Allottee or Tribe Name
3a. Address PO Box 168, Farmington, NM 87499	7. If Unit or CA/Agreement, Name and/or No. UTU58818A, DEADMAN CANYON
3b. Phone No. (include area code) (505) 326-2659	8. Well Name and No. DEADMAN CANYON FEDERAL #1-20
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2180' FSL & 2030' FEL, NW SE, Sec. 20, T37S, R24E	9. API Well No. 43-037-31293
	10. Field and Pool, or Exploratory Area WILDCAT
	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
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input checked="" type="checkbox"/> 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.

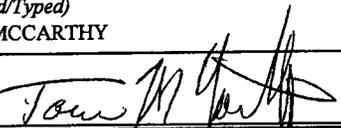
**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

**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 	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 17<sup>th</sup> 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/Qual
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	SESW
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	SESE	20-37S-24E	SAN JUAN	P&A
43-037-31306	DEADMAN CANYON 1-28	UTU49678	SESE	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	SESE	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	SESE	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	SESE	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	SESE	36-8S-22E	UINTAH	APD
43-047-34180	FEDERAL 33-20	UTU77300	SESE	20-8S-24E	UINTAH	APD
43-047-34182	FEDERAL 42-25	UTU65471	SESE	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	SESE	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	SESE	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	SESE	36-8S-22E	UINTAH	APD
43-047-34125	FEDERAL 22-36E	UTU78025	SESE	36-8S-23E	UINTAH	APD
43-047-34126	FEDERAL 23-31	UTU61401	SESE	31-8S-23E	UINTAH	APD
43-047-34178	FEDERAL 22-26	UTU76042	SESE	26-8S-23E	UINTAH	APD
43-047-34129	FEDERAL 41-31	UTU61401	NENE	31-8S-23E	UINTAH	APD

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JUN 19 2002

**DIVISION OF  
OIL, GAS AND MINING**



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**7. Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 06/18/2002

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**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: 06/24/2002

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**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

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**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

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**COMMENTS:**

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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. <sup>Lowell</sup>Braxton:

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 recompact 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

821 17th Street, Suite 500  
Denver, Colorado 80202  
Telephone: 303-830-2500  
Facsimile: 303-832-2366  
E-mail: wsmt@wsmtlaw.com

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

Stephen J. Sullivan  
John F. Meck  
Keith D. Tooley  
Kendor P. Jones  
Brian S. Tooley  
Thomas C. McKee  
Stephen A. Bain  
Molly Sommerville  
William R. Rapson  
Kathryn Haight  
Kristen L. Mix  
Amy E. Seneshen  
Danielle V. Wiletsky  
Rebecca N. Welborn

Special Counsel  
John F. Welborn  
Norman S. Early, Jr.

**Re: AEC Oil & Gas (USA) Inc. name change to EnCana Oil & Gas (USA) Inc.** Of Counsel  
Robert F. Welborn

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  
Paralegal

/jm  
Enclosures

**RECEIVED**

**JUL 05 2002**

**DIVISION OF  
OIL, GAS AND MINING**

*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.



2137895 8100

020418994

*Harriet Smith Windsor*

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 1858569

DATE: 06-27-02

**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:

<u>AEC Lease No.</u>	<u>Lessor</u>	<u>Lessee</u>	<u>Description</u>
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:**

<u>AEC Lease No.</u>	<u>Lessor</u>	<u>Lessee</u>	<u>Description</u>
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

**MONTHLY OIL AND GAS PRODUCTION REPORT**

Operator Name and Address:

**BAYLESS, ROBERT L PRODUCER LLC  
ATTN LORRI BINGHAM  
P O BOX 168  
FARMINGTON NM 87499**

UTAH ACCOUNT NUMBER

**N7950**

REPORT PERIOD (MONTH/YEAR):

**2/2003**

AMENDED REPORT

(Highlight Changes)

Well Name			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					Oil(BBL)	GAS(MCF)	WATER(BBL)
MC CRACKEN SPRING #1-31									
4303730956	08431	37S 24E 31	ISMY	P	OW	21	61	737	3
MC CRACKEN SPRING # 4-31									
4303731393	08431	37S 24E 31	ISMY	S	OW	0	0	0	0
MAVERICK FEDERAL #1									
4303731335	10781	37S 23E 12	ISMY	S	GW	0	0	0	0
SHANE FEDERAL #1									
4303731406	10999	37S 24E 7	ISMY	S	GW	0	0	0	0
DEADMAN CANYON FED #1-20									
4303731293	11010	37S 24E 28	ISMY	P	OW	23	1007	15284	361
DEADMAN CANYON FED #1-28									
4303731306	11010	37S 24E 28	ISMY	S	OW	0	0	0	0
DEADMAN CANYON FED #2-20									
4303731303	11010	37S 24E 20	ISMY	P	OW	28	1182	17919	424
DEADMAN CANYON FED #3-20									
4303731304	11010	37S 24E 20	DEAD	TA	OW	0	0	0	0
KNOCKDHU UNIT #1									
4303731773	11890	37S 25E 33	ISMY	P	GW	28	37	995	0
KNOCKDHU UNIT #3									
4303731785	11890	37S 25E 33	ISMY	P	GW	28	0	944	0
DALMORE FEDERAL #1A									
4303731786	12098	37S 23E 25	ISMY	P	GW	28	200	2267	40
KNOCKDHU UNIT #2									
4303731779	12111	37S 25E 33	ISMY	P	GW	28	174	1076	225
HORSE CANYON FED #1-10									
4303731796	12324	38S 23E 10	ISMY	P	OW	28	1009	2257	265

*well converted 2/2003 from GI to POW.*

TOTALS

3670	41479	1318
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COMMENTS:

*Entity changed 5/30/2003 from 10696. Probably should have been changed in 1989 when well was unitized. No Form 6 - Entity Action Form.*

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

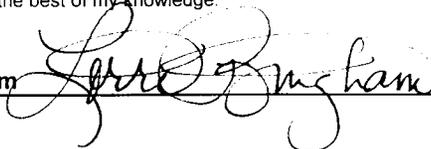
Date:

*DLS  
5/30/03*

4/10/2003

Name and Signature:

**Lorri Bingham**



Telephone Number:

505-326-2659

RECEIVED  
APR 17 2003

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-57469
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> DEADMAN (UPPER ISMAY)
<b>2. NAME OF OPERATOR:</b> ROBERT L BAYLESS PRODUCER, LLC		<b>8. WELL NAME and NUMBER:</b> DEADMAN CYN FED 1-20
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 168 , Farmington, NM, 87499		<b>9. API NUMBER:</b> 43037312930000
<b>PHONE NUMBER:</b> 505 564-7802 Ext		<b>9. FIELD and POOL or WILDCAT:</b> DEADMAN-ISMAY
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2180 FSL 2030 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 20 Township: 37.0S Range: 24.0E Meridian: S		<b>COUNTY:</b> SAN JUAN
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/7/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="spill notification"/>

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

Spill occurred on CTB SW of Deadman Canyon 1-20, not on the actual well pad of the 1-20.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
October 29, 2014**

<b>NAME (PLEASE PRINT)</b> Helen Trujillo	<b>PHONE NUMBER</b> 505 326-2659	<b>TITLE</b> Office Manager
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/7/2014	

ATTACHMENT 4 - Discharge Notification Form			
In the event of a discharge of oil to navigable waters or adjoining shorelines, the following information will be provided to the National Response Center.			
Table G-20 Information provided to the National Response Center in the Event of a Discharge			
Operator Name	Robert L. Bayless Producer, LLC, PO Box 168, Farmington NM 87499		
Discharge/Discovery Date	10/5/2014	Time	10:00 AM
Well or Facility Name/Number	Deaman Tank Battery		
Facility Location (Address/QtrQtr/Lat-Long/Section Township Range)	Lat 37.549692 Long 109.310556		
Name of reporting individual	Danny Castor	Telephone #	970-749-0512
Type of material discharged	Oil & Water	Estimated total quantity discharged	Gallons/Barrels 10 BBLs
Source and cause of the discharge	Heater Treater - Corroded hole in the fire tube	Media affected	<input checked="" type="checkbox"/> Soil
			<input type="checkbox"/> Water (specify)
			<input type="checkbox"/> Other (specify)
Will immediate containment of spillage be required?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (specify)		
Actions taken	Drained Heater Treater and plugged hole. Shut down the lease. Water truck removed 2 bbls from gravel under Heater Treater. 1 ft x 30 ft stream went off location. Removing soil to take to land farm.		
Damage or injuries	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (specify)	Evacuation needed?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (specify)
Organizations and individuals contacted	<b>National Response Center: Reportable quantity &gt;1000 gallons (22 bbls) oil into navigable waters.</b> National Response 800-424-8802 AND for NM: Region 6 at 1-800-887-6063, or for CO: Region 8 at 1-800-227-8917		Time:
	<b>BLM: NM: &gt;10 bbl &lt;100 of liquids or &gt;50 mcf &lt;500 mcf discharge, notify within 24 hrs:</b>		Time:
	Email to Sherry Landon, BLM FFO (slandon@blm.gov) or 505-564-7707 and cc: the BLM FFO Environmental Protection Team Lead, Mark Kelly (mkelly@blm.gov) and BLM FFO Branch Chief for Lands and Environmental Protection, Bill Liess (bill_liess@blm.gov)		
	<b>BLM: CO: Major Undesirable &gt;100 bbl of liquids or &gt;500 mcf discharge, or ANY spill near sensitive area;</b> parks, recreation sites, wildlife refuge, lakes, streams, suburban areas, notify within 24 hrs and submit written report within 15 days. Current Natural Resources Officer. <b>Other than major undesirable event,</b> submit written report with in 15 days.		Time:
	<b>COGCC: Reportable quantity for any quantity that impacts state water, residence or occupied structure, livestock, public byway, or &gt;20 bbls within containment structure; &gt;5 bbls released within containment structure or &gt;1 bbl outside containment structure.</b>		Time:
	Verbally notify Director within 24 hrs at 970-625-2497 and Release Hotline at 1-877-518-5608. Also submit Form 19 within 10 days of discovery.		
	<b>NMOCD: Reportable Quantity &gt;25 bbl of any volume which causes fire, reaches water, endanger public health, or causes substantial damage to property or environment:</b> verbally notify NMOCD Office and submit form C-141 within 15 days of release.		Time:
	<b>Navajo Nation: Reportable Quantity &gt;1 bbl:</b> verbally notify within 24 hours Bill Freeman at 505-368-1040. If spill leaves footprint of location or enters a wash, IMMEDIATELY verbally notify Steve Austin at 505-368-1037.		Time:
	Cleanup contractor (Specify)		Time:
	Facility personnel (Specify)		Time:
State Agency (Specify)		Time:	
Other (Specify) <b>Cliff Giffon-BLM Monticello was notified by Tom McCarthy-Bayless by phone.</b>		10/6/2014	
Other (Specify) <b>State of Utah, Form 9-Sundry</b>		10/7/2014	