

RECEIVED

JAN 30 1989

# FILING FOR WATER IN THE STATE OF UTAH

Rec. by L.K.  
Fee Rec. 25311  
Receipt # 30.00  
Microfilmed \_\_\_\_\_  
Roll # \_\_\_\_\_

DEPARTMENT OF OIL, GAS & MINING

## APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Title 73, Chapter 3 of the Utah Code Annotated 1953, as amended.

WATER RIGHT NUMBER: 49 - 1456

APPLICATION NO. T63344

1. PRIORITY OF RIGHT: November 23, 1988

FILING DATE: November 23, 1988

2. OWNER INFORMATION

Name: Murray Water Service  
Address: 6620 East Highway 40, Jensen, UT 84035

77  
NOV 23 1988  
STATE ENGINEER

3. QUANTITY OF WATER: 20.0 acre feet (Ac. Ft.)

4. SOURCE: White River DRAINAGE: SE Unita Basin

POINT(S) OF DIVERSION: COUNTY: Uintah

(1) S. 1800 feet, W. 1200 feet, from the NE Corner of Section 17,  
Township 9 S, Range 22 E, SLB&M

Description of Diverting Works: Pump from river into trucks

COMMON DESCRIPTION:

5. NATURE AND PERIOD OF USE

Oil Exploration From November 23 <sup>1988</sup> to November 22. <sup>1988</sup>

6. PURPOSE AND EXTENT OF USE

Oil Exploratio: Oil well drilling and completion in the Chepeta Wells Oil Field.

EXPLANATORY

8S 21E Sec. 1-36  
9S 22E  
7S 23E

43-047-31869 Badlands Fed. 1-32 / Quintana Petro.

\*\*\*\*\*

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

\*\*\*\*\*

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

\*\*\*\*\*

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

  
\_\_\_\_\_  
Signature of Applicant

STATE ENGINEER'S ENDORSEMENT

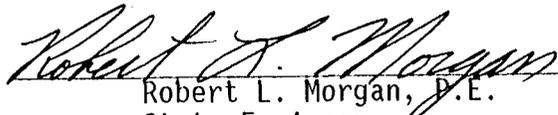
WATER RIGHT NUMBER: 49 - 1456

APPLICATION NO. T63344

1. November 23, 1988 Application received by RWL.
  2. November 23, 1988 Application designated for APPROVAL by RWL and KLJ.
  3. Comments:
- 
- 

Conditions:

This application is hereby APPROVED, dated January 27, 1989, subject to prior rights and this application will expire on January 27, 1990.

  
Robert L. Morgan, P.E.  
State Engineer

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AMEN (\*)

NOTICE OF STAKING  
Sheet to be used in place of  
Application to DPO Form 8-331-C)

JUN 05 1989

DIVISION OF  
OIL, GAS & MINING

6. Lease Number

UTU-56965

8. If Indian, Address or Tribe Name

N/A

7. Unit Agreement Name

Badlands Federal Unit

8. Farm or Lease Name

BADLANDS FEDERAL

9. Well No.

#1-32

10. Field or Wildcat Name

Wildcat

11. Sec., T., R., M., or  
Bk and Survey of Area

Section 32, T8S-R23E

12. County or Parish

Uintah

13. State

Utah

1. Oil Well  Gas Well  **CONFIDENTIAL**

2. Name of Operator

QUINTANA PETROLEUM CORPORATION (303)628-9211

3. Address of Operator or Agent

1050 - 17th Street, Suite 400, Denver, CO 80265

4. Surface Location of Well

(Governmental 1/4 or 1/4 1/4)

660' FSL & 660' FEL (SE SE)

Attach: Topographical or other acceptable map  
showing location, access road, and lease boundaries.

14. Formation Objective(s)

Wasatch & Mesa Verde

15. Estimated Well Depth

9470'

16. To Be Completed by Operator Prior to Drilling

- \* a. Location must be staked Staked by Uintah Engineering & Land Surveying Inc.
- \* b. Access Road Flagged Flagged by Uintah Engineering & Land Surveying Inc.
- c. Sketch and/or map of location, showing road, pad dimensions, reserve pit, etc., and file (To be provided at onsite)

17. To Be Considered By Operator Prior to Drilling

- a. H<sub>2</sub>S Potential None
- \* b. Private Surface Ownership State of Utah
- c. Cultural Resources (Archaeology) To be done by LaPlata Archeological Consultants
- d. Federal Right of Way Being obtained from State of Utah

18. Additional Information

Lease Description:

Unit Boundary map attached.

Township 8 South, Range 23 East

Section 32: All

19. Signed

*J. Williams*

Title

Production Technician

Date 5/31/89

Original dtd 5/18/89

cc: State of Utah

# QUINTANA PETROLEUM CORPORATION

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

June 26, 1989

Bureau of Land Management  
District Office  
170 So. 500 East  
Vernal, Utah 84078

RE: Application for Permit to Drill  
Badlands Federal #1-32  
SE SE Section 32, T8S-R23E  
Uintah County, Utah

Gentlemen:

Be advised that Quintana Petroleum Corporation is considered to be the Operator on Lease UTU-56965 and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands or portions thereof. Bond coverage for this well is produced by bond #174F4924, Principal Quintana Petroleum Corporation, surety ID #FEIN 74-0849601 (U. S. Treasury Notes).

Very truly yours,



Jeannie Williams  
Production Technician

/jw

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: 613' FSL & 704' FEL (SE SE)  
 At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 ±28 miles southeast of Vernal, Utah.

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 613'

16. NO. OF ACRES IN LEASE OR ACRES ASSIGNED TO THIS WELL  
 640

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

19. PROPOSED DEPTH  
 7900' *Mesa Verde*

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4983' GR

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

5. LEASE DESIGNATION AND SERIAL NO.  
 UTU-56965

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

7. UNIT AGREEMENT NAME  
 Badlands Unit

8. FARM OR LEASE NAME  
 BADLANDS FEDERAL

9. WELL NO.  
 #1-32

10. FIELD AND POOL, OR WILDCAT  
 Great Undesignated (002)

11. SECTION, T. R., M., OR BLEND AND SURVEY OR AREA  
 Section 32, T8S-R23E

12. COUNTY OR PARISH  
 Uintah

13. STATE  
 Utah

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 DIVISION OF OIL, GAS & MINING

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	250'	175 sxs Class "A"
7 7/8"	5 1/2"	15.50# & 17#	7900'	To be determined upon inspection of open hole logs.

Quintana Petroleum Corporation proposes to drill a well to 7900' to test the Wasatch and Mesa Verde formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

I hereby certify that Quintana Petroleum Corporation is authorized by proper lease interest owners to conduct operations at the above mentioned location. Bonding is provided by the Operator, Quintana Petroleum Corporation.

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 6/26/89

(This space for Federal or State office use)

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

PERMIT NO. 43-047-31869 APPROVAL DATE \_\_\_\_\_

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

cc: State of Utah DOGM

DATE: 7-11-89  
 BY: *John R. Bay*  
 WELL SPACING: R615-23

\*See Instructions On Reverse Side

**QUINTANA PETROLEUM CORPORATION**

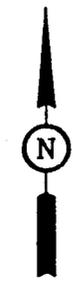
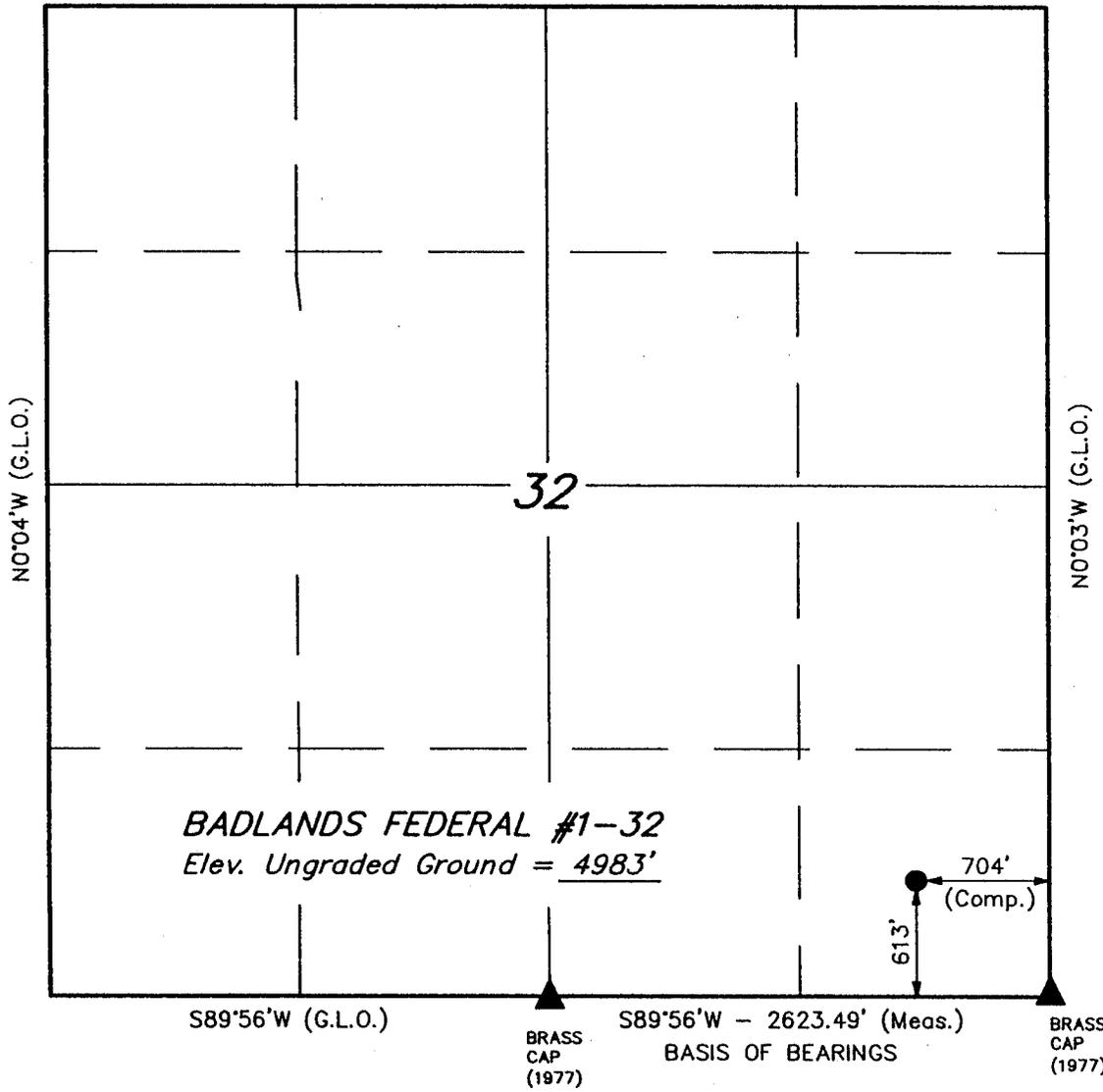
*T8S, R23E, S.L.B.&M.*

Well location BADLANDS FEDERAL #1-32, located as shown in the SE 1/4 SE 1/4, Section 32, T8S, R23E, S.L.B.&M. Uintah County, Utah.

N89°58'W - 79.98 (G.L.O.)

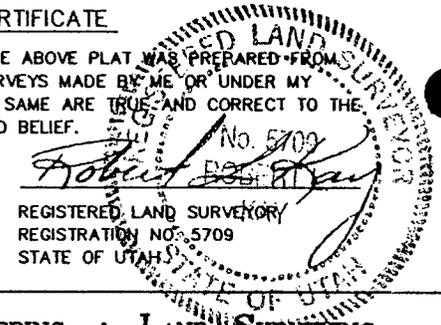
BASIS OF ELEVATION

SPOT ELEVATION TAKEN AT THE SOUTHEAST CORNER SECTION 32, T8S, R23E, S.L.B.&M. TAKEN FROM THE REDWASH SE QUADRANGLE, UTAH UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4962 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REGISTERED LAND SURVEYOR  
REGISTRATION NO. 5709  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
P. O. BOX 1758 - 85 SOUTH - 200 EAST  
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 6-1-89
PARTY R.L.K. B.M. J.T.K.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE QUINTANA PETROLEUM CORP.

Onshore Order No. 1  
Quintana Petroleum Corporation  
Badlands Federal #1-32  
613' FSL & 704' FEL (SE SE)  
Section 32, T8S-R23E  
Uintah County, Utah

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DRILLING PROGRAM

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

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

1. The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Uintah	Surface	---
Green River "X" Marker	3550'	1400'
Wasatch	4770'	180'
Mesa Verde	6670'	-1720'
Total Depth	7900'	-2950'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil & Gas	Green River "X"	3550'
Gas	Wasatch	4770'
Gas	Mesa Verde	6670'

All shows of fresh water and minerals will be reported and adequately protected. If requested a sample will be taken of any water flows and furnished to the BLM in Vernal, Utah for analysis. All oil and gas shows will be tested to determine commercial potential.

- b. Quintana Petroleum Corporation plans to protect all surface fresh water zones by running a sufficient amount of surface casing.
3. Quintana Petroleum Corporation's minimum specifications for pressure control equipment are as follows:

Pressure control equipment will consist of a Double Gate, Series 900, 3M# WP (minimum) BOP from 250' to T.D. (see BOP diagram attached).

BOP system will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout

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preventer controls will be installed prior to drilling the surface shoe and prior to starting workover or completion operations. Preventers will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order. Preventers will be pressure tested to 70% of the internal yield of the casing or to the working pressure before drilling out from below each casing string. All BOP pressure tests must be recorded on the daily drilling report. The choke manifold will be rated and tested to the same pressure as the BOP.

4. a. The proposed casing program will be as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>New/Used</u>
Surface	0-250'	12 1/4"	8 5/8"	24#	K-55	ST&C	New
Prod.	0-TD	7 7/8"	5 1/2"	15.50# & 17#	K-55	LT&C	New

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

b. The cement program will be as follows:

<u>Surface</u>	<u>Type and Amount</u>
0-250'	175 sxs Class "A" with additives or an amount sufficient to circulate to surface.
<u>Production</u>	<u>Type and Amount</u>
	Will be designed upon completion of drilling operations and will be sufficient to cover zones of interest.

c. Auxiliary equipment to be used is as follows:

1. Kelly Cock
2. A full opening safety valve will be on the floor at all times with crossovers to all drill collars.
3. Necessary solids control equipment.
4. Pit Level Indicator and Flow Show.

5. The proposed drilling fluids to be used in drilling are as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>F/L</u>	<u>pH</u>
0-250'	Gel-Lime	8.8-9.2	26-30	N/C	---
250-3000'	Gel-Lime	8.8-9.2	26-30	N/C	---
3000'-TD	Dispersed	9.0-9.3	35-40	8-10	10+

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5. Continued...

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

Monitoring of the system will be done visually and as indicated in "4.c.4." above.

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

- a. No conventional cores are anticipated.
- b. The logging program will consist of an FDC/CNL/GR/CAL from T.D. to 2000'. A DIL/SFL/GR and BHC Sonic run from T.D. to base of surface casing.
- c. No DST's are anticipated.

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 3160. Two copies of all logs, core descriptions, core analysis, well test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted if requested by the District Manager.

7.
  - a. Maximum bottom hole pressure expected is 3400 psi.
  - b. No abnormal pressures, temperatures or potential hazards are anticipated.

8. Other information.

- a. Location construction is planned to commence upon approval of this application.
- b. The operator will contact the Bureau of Land Management in Vernal, Utah 24-48 hours prior to beginning any dirt work on this location.
- c. Quintana Petroleum Corporation proposes to spud the Badlands Federal #1-32 immediately upon approval of this application and intends to complete the well within approximately one month after the well has reached TD.

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Badlands Federal #1-32  
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- d. It is anticipated the duration of drilling will be 16 days.
- e. The proposed completion program is as follows: perforate zones of interest, frac and acidize as necessary and place well on production.
- f. 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 Manager. 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 operations.
- g. 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 AO will be obtained and notification given before resumption of operations.
- h. The spud date will be reported orally to the AO Vernal BLM office within 24 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed by a Sundry Notice.
- i. In accordance with NTL-1, this well must be reported on the "Monthly Report of Operations" starting with the month in which operations commence and continuing each month until the well is physically plugged and abandoned.
- j. Immediate Report: Accidental spills, blowouts, fires, leaks, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.
- k. If the well is successfully completed for production, then the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication no later than 5 days following the date on which the well is placed on production. Such notification may be provided orally if confirmed in writing, and must be received no later than the 5th business day following the date on which the well is placed on production.

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Badlands Federal #1-32  
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Section 32, T8S-R23E  
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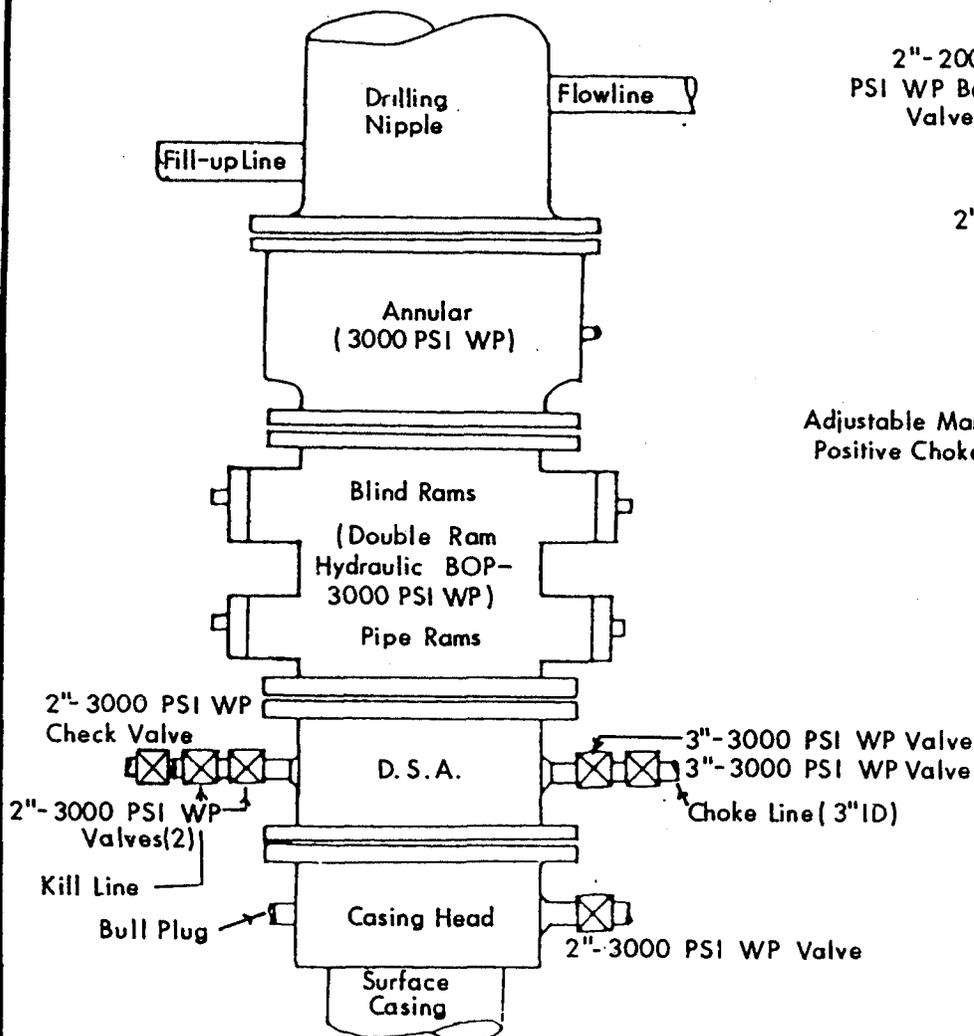
1. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval for permanent disposal method, along with the required water analysis and other information, must be submitted for the AO's approval. Failure to timely file an application with the time allowed will be considered an incident of non-compliance and will be grounds for issuing a shut-in order until the application is submitted.
- m. Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the AO and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.
- n. A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3 and 3162.7-4 shall be submitted to the Vernal BLM office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.
- o. No well abandonment operations will begin without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. Submittal of the three abandonment Sundry Notices as per Onshore Order No. 1 will be:
  1. Request for Approval to Abandon
    - proposed plugging procedures, or
    - confirmation of verbal plugging procedures
  2. Subsequent Report of Abandonment
    - "Other" category marked - executed plugging procedures (within 30 days following completion of abandonment)
  3. Subsequent Report of Abandonment
    - "Other" category marked - final abandonment after surface rehabilitation complete.

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613' FSL & 704' FEL (SE SE)  
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Uintah County, Utah

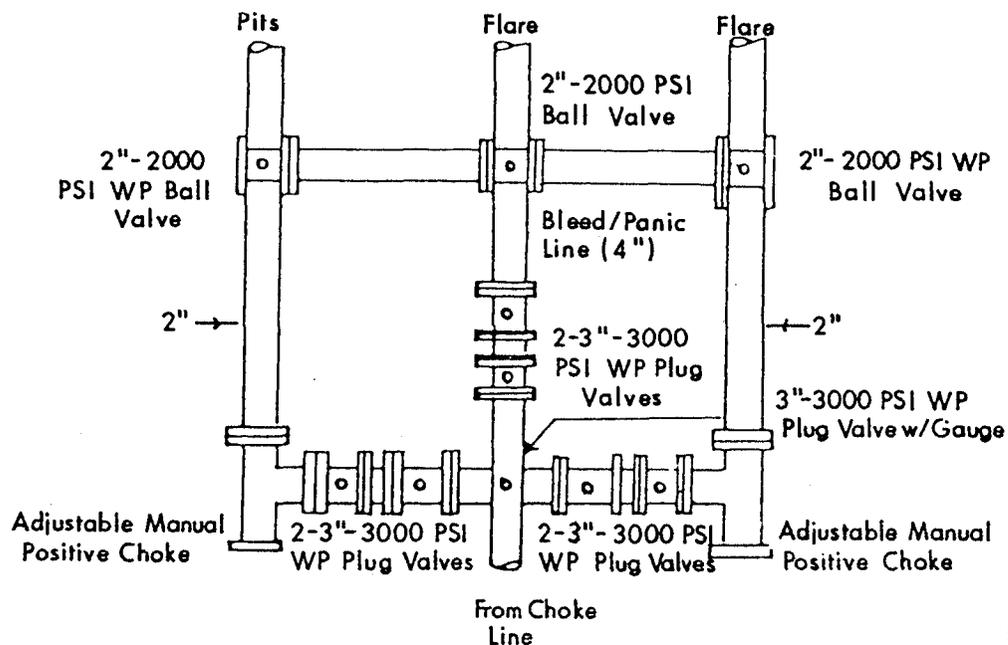
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- o. Subsequent report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate surface managing agency.
- p. Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.
- q. If air drilling, the operator shall control blowby line discharge dust by use of water injection or any other acceptable method. The blowby line discharge shall be a minimum of 100 feet from the wellhead and be directed into the blowby pit in such a manner as to allow containment of drill bit cuttings and waste in the blowby line.

**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**

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Uintah County, Utah

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## SURFACE USE PLAN

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

#### 1. Existing Roads

- a. The proposed wellsite is located approximately 38 miles southeast of Vernal, Utah
- b. Directions to the location from Vernal, Utah are as follows:  
  
From Vernal go southeasterly on Hwy 40/45 approximately 28 miles to an existing dirt road in Section 12, T8S-R23E. Go south and then west on the dirt road approximately 6.1 miles to wellsite (see Map #A).
- c. Existing and new access roads will be maintained in good or better condition during all drilling and completion operations associated with this well.
- d. 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.
- e. Right-of-Way applications will be submitted for access across Sections 12, 13 and 23, T8S-R22E (BLM land) and Sections 23, 26 and 35, T8S-R22E (Bonanza Power Plant land) (See Map "A").
- f. Copies of the R-O-W grants shall be kept with the dirt contractor during construction and thereafter kept on location with the complete copy of the approved APD.

#### 2. Planned Access Roads

- a. The last 4 miles will utilize existing two-track road which will be flatbladed initially during drilling and completion operations. It will have a maximum disturbed width of 30 feet with a running surface of 18 feet. This access road will be crowned and ditched if production is established. Appropriate water control will be installed to control erosion (See Map "B").

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Section 32, T8S-R23E  
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- b. The maximum grade will be 6%.
- c. The access road was centerline flagged at the time of staking.
- d. One low water crossing will be installed as shown on Map #1.
- e. No gates, cattle guards or fence cuts will be necessary.
- f. 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.
- g. No surfacing material is necessary.
- h. Access roads and surface disturbing activities will conform to standards outlined in the USGS Publication (1978) Surface Operating Standards for Oil and Gas Development.
- i. If the well is productive, the road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them be avoided.
- j. Right-of-Way applications are required and copies of the ROW grants will be kept with the dirt contractor during construction and thereafter kept on location with the complete copy of the approved APD.
- k. Right-of-Ways required:  
  
ROW from BLM required in Sections 12, 13 and 23; from Bonanza Power Plant in Sections 23, 26 and 35. The remainder of the access is on Federal surface and is within the unit boundary.

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3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location. See Map #1.
  - a. Water wells - 0.
  - b. Abandoned wells - 0
  - c. Temporarily abandoned wells - 0
  - d. Disposal wells - 0.
  - e. Drilling wells - 0
  - f. Producing wells - 0
  - g. Shut-in wells - 1 (Badlands Federal #1-32)
  - h. Injection wells - 0
  
4. Location of Existing and/or Proposed Facilities if the Well is Productive.
  - a. All permanent (onsite for 6 months or longer) constructed or installed (including oil well pump jacks) will be painted a non-reflective earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with OSHA will be excluded. The required paint color is Desert Brown.
  - b. If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain at least 1 1/2 times the storage capacity of the battery. The integrity of the dike must be maintained.
  - c. If commercial production is established, a Sundry Notice with production facility layout will be submitted.
  - d. All loading lines will be placed inside the berm surrounding the tank battery.
  - e. Any necessary pits will be properly fenced to prevent any wildlife entry. The production pit will be flagged overhead.
  - f. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

Onshore Order No. 1  
Quintana Petroleum Corporation  
Badlands Federal #1-32  
613' FSL & 704' FEL (SE SE)  
Section 32, T8S-R23E  
Uintah County, Utah

CONFIDENTIAL - TIGHT HOLE

- g. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.
- h. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.
- i. 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.
- j. All access road will be upgraded to Class III standards and maintained as necessary to prevent erosion and accommodate year-round traffic.
- k. The road will be maintained in a safe useable condition.

5. Location and Type of Water Supply

- a. All water needed for drilling purposes will be obtained from the White River located in the Uintah and Ouray Indian Reservation in the NE/4 of Section 17, T9S-R22E.
- b. Water will be hauled to the location.
- c. No water wells are to be drilled.

6. Source of Construction Materials

- a. Surface and subsoil materials in the immediate area will be utilized.
- b. Any gravel used will be obtained from a commercial source.
- c. Any materials to be used which are under BLM jurisdiction shall be approved in advance, as per CFR 3610.2-3.
- d. No construction materials will be removed from Federal land.

7. Methods for Handling Waste Disposal

- a. The reserve pit will not be lined unless porous material is encountered during construction of the reserve pit. The bottom of the reserve pit shall not be in fill material.

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- b. Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal site. The road and pad will be kept litter free.
- c. 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.
- d. Pits are not to be located in natural drainages where a flood hazard exists or surface runoff will destroy or damage the pit walls.
- e. Drill cuttings are to be contained and buried in the reserve pit.
- f. Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.
- g. 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.
- h. More than one pit for produced water on production facilities must be justified.

8. Ancillary-Facilities

No camps, airstrips or other facilities will be necessary.

9. Wellsite Layouts

- a. The reserve pit will be located on the north side of the location. The stockpiled topsoil will be stored on the west side of the wellpad. Pit subsoil will be stockpiled on the east side of the location. Access to the wellpad will be from the east (see Diagram #1).
- b. The reserve pit and/or pad location shall be constructed long and narrow for topographic reasons in case rock is encountered.

Onshore Order No. 1  
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- c. Diversion ditches will be constructed on the north and west sides of the location to drain water around location to the south.
- d. Cross sections of proposed drill pad with approximate cuts and fills and the relation to topography are shown on Diagram #1.
- e. Rig orientation, parking areas, and access roads are shown on Diagram #1.
- f. The location of mud tanks, reserve pit, trash cage, pipe racks, living facilities and soil stockpiles are shown on Diagram #1.
- g. The blooie pit will be located 150' from the well head on the northeast corner of the pad.
- h. During construction, all brush will be removed from the wellpad and access road and stockpiled separately from the topsoil.
- i. During construction 4-6 inches of topsoil will be removed from the cut areas only and stockpiled separately on the west side of the location to be used later during reclamation process.
- j. All pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire. The reserve pit will be fenced on three sides before drilling starts. The fourth side will be fenced as soon as the drilling is completed. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling operations are completed. Pits will be fenced and maintained until cleanup.
- k. The fence will be constructed as prescribed in the USGS Publication (1978) "Surface Operating Standards for Oil and Gas Development". Alternatives to the prescribed standards shall be submitted to the Authorized Officer for approval.

10. Plans for Reclamation of the Surface

- a. Immediately upon well completion, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production.

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Quintana Petroleum Corporation  
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- b. Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed. The reserve pit will be reclaimed within 90 days from the date of well completion.
- c. All disturbed areas will be recontoured to approximate the natural contours.
- d. The stockpiled topsoil will be evenly distributed over the disturbed areas.
- e. 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.
- f. Waste materials will be disposed of as stated in #7 of this Surface Use Plan.
- g. Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface (new access only).
- h. Seed will be broadcast or drilled at the time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage and the seed mixture will be proportionately larger (double the pounds per acre).
- i. An appropriate seed mixture will be determined by the BLM at the time the restoration activities are scheduled to begin. All seeding will be done from October 1st until the ground freezes.
- j. At such time as the well is plugged and abandoned the operator will submit a surface reclamation plan to the Surface Management Agency for prescribed seed mixtures and reseeding requirements.
- k. If the seeding is unsuccessful, the lessee/operator may be required to make subsequent seedings.

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1. Compacted areas of the wellpad should be plowed or ripped to a depth of 12" before reseeding. Seeding should be done with a disc-type drill to ten inches apart. The seed should be planted between one-half inch deep and three quarter inch deep. A drag, packer or roller may be used to insure uniform coverage of the seed, and adequate compaction. Drilling of the seed should be done on the contour where possible. Where slopes are too steep for contour drilling a "cyclone" hand-seeder or similar broadcast seeder should be used, using twice the recommended seed per acre. Seed should then be covered to a depth described above by whatever means is practical.

11. a. Surface Ownership

Wellpad and most of access road ownership is Bureau of Land Management. The remainder of the access road is private. Right-of-Way is being obtained from the Bonanza Power Plant for that portion of the access.

b. Mineral Ownership

Mineral ownership is Federal.

12. Other Information

- a. There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.
- b. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.
- c. The dirt contractor will be provided with an approved copy of the surface use plan and will keep a copy on site during the construction and reclamation operations.
- d. 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.

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- e. A survey was conducted by LaPlata Archeological Consultants. No significant cultural resources were found and clearance is recommended. A copy of this report has been submitted directly by LaPlata Archeological Consultants.
- f. If during operations, any archaeological or historical sites, or any object of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites are to be suspended and the discovery reported promptly to the Surface Management Agency.
- g. The operator will control noxious weeds along rights-of-way for roads, pipelines, wellsites or other applicable facilities. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On BLM administered land, it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- h. The operator or his contractor shall contact the BLM offices at (801)789-1362 between 24 and 48 hours prior to construction activities. Contact Byron Tolman or Jim Piani.
- i. The BLM office shall be notified upon site completion prior to moving on the drilling rig.
- j. If there is determined to be a presence of Threatened and Endangered plan species, construction or drilling activities may be restricted.
- k. This area has been identified as crucial pronghorn antelope habitat. Modifications may be required in the surface use plan to protect kidding areas between May 15th to June 30th.
- l. Notification will be given to Chevron at (801)359-3098 prior to crossing their line located in NW/4 Section 3, T9S-R23E. At this pipeline crossing power lines used for cathodic protection will need to be avoided when the rig is moved in by moving the road to the north approximately 100 feet.

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m. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be staked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities (The BLM does not seek to compete with private industry. There are commercial facilities available to for stacking and storing drilling rigs).

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

Permit Matters

Quintana Petroleum Corp.  
1050 - 17th St., Ste.400  
Denver, Colorado 80265  
Jeannie Williams  
(303)628-9211

Drilling & Completion Matters

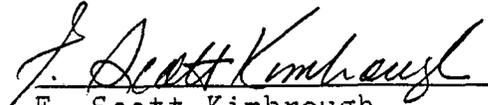
Quintana Petroleum Corp.  
1050 - 17th St., Ste.400  
Denver, Colorado 80265  
E. Scott Kimbrough  
(303)628-2911 - office  
(303)969-9468 - home

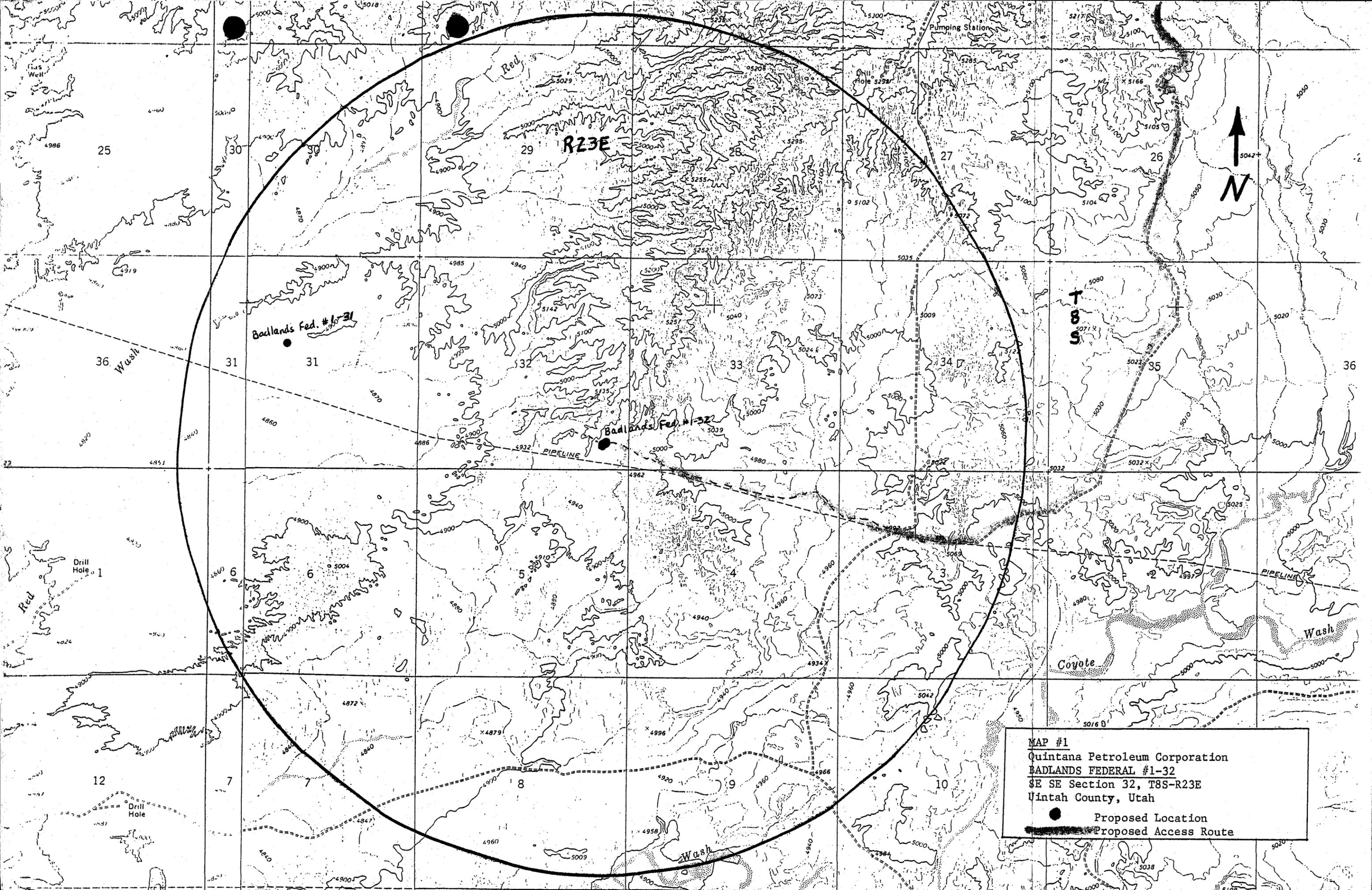
CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently 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 this plan and the terms and conditions under which it is approved.

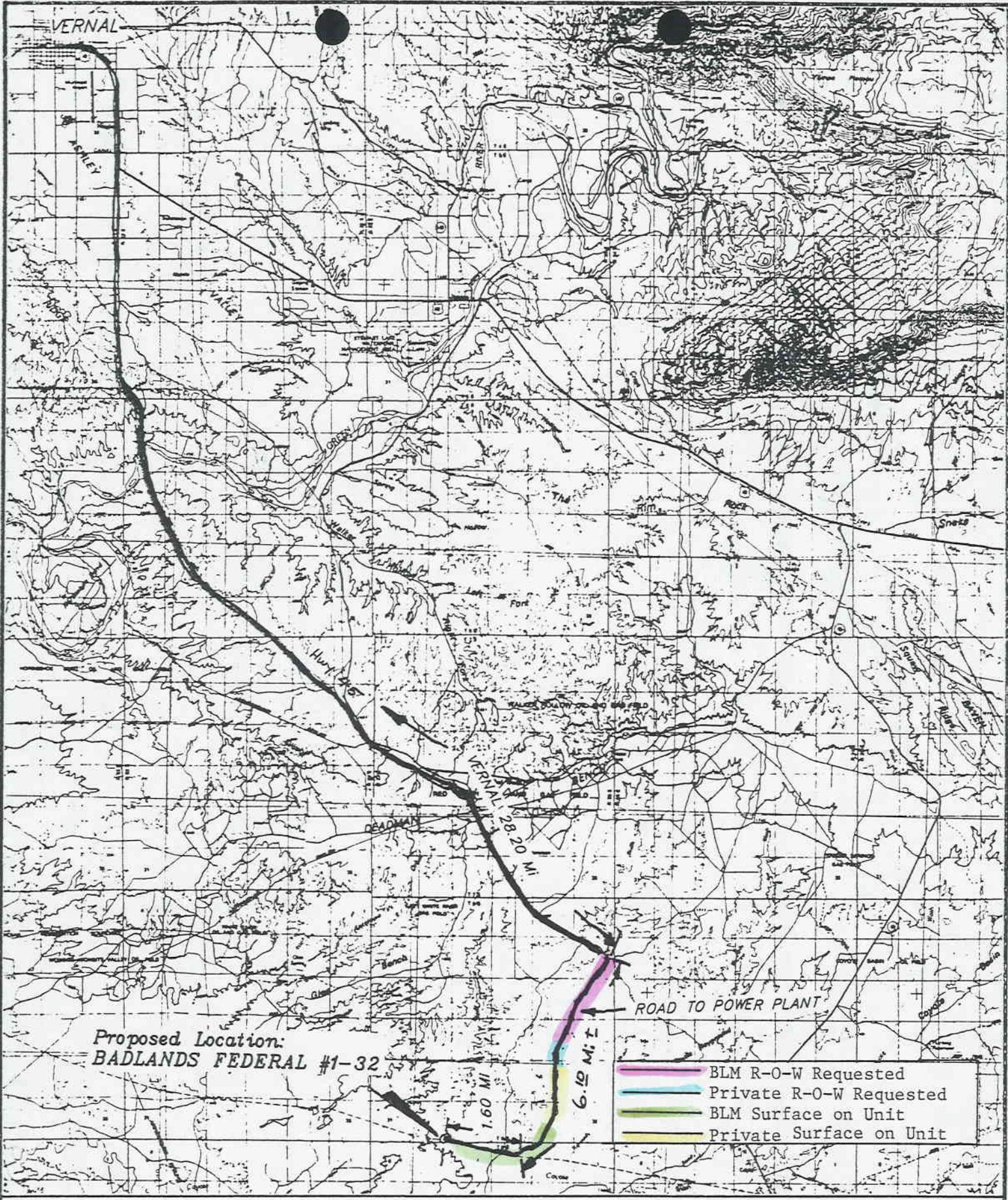
This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

6-26-89  
Date

  
E. Scott Kimbrough  
District Operations Engineer  
Quintana Petroleum Corporation



MAP #1  
Quintana Petroleum Corporation  
BADLANDS FEDERAL #1-32  
SE SE Section 32, T8S-R23E  
Utah County, Utah  
● Proposed Location  
— Proposed Access Route

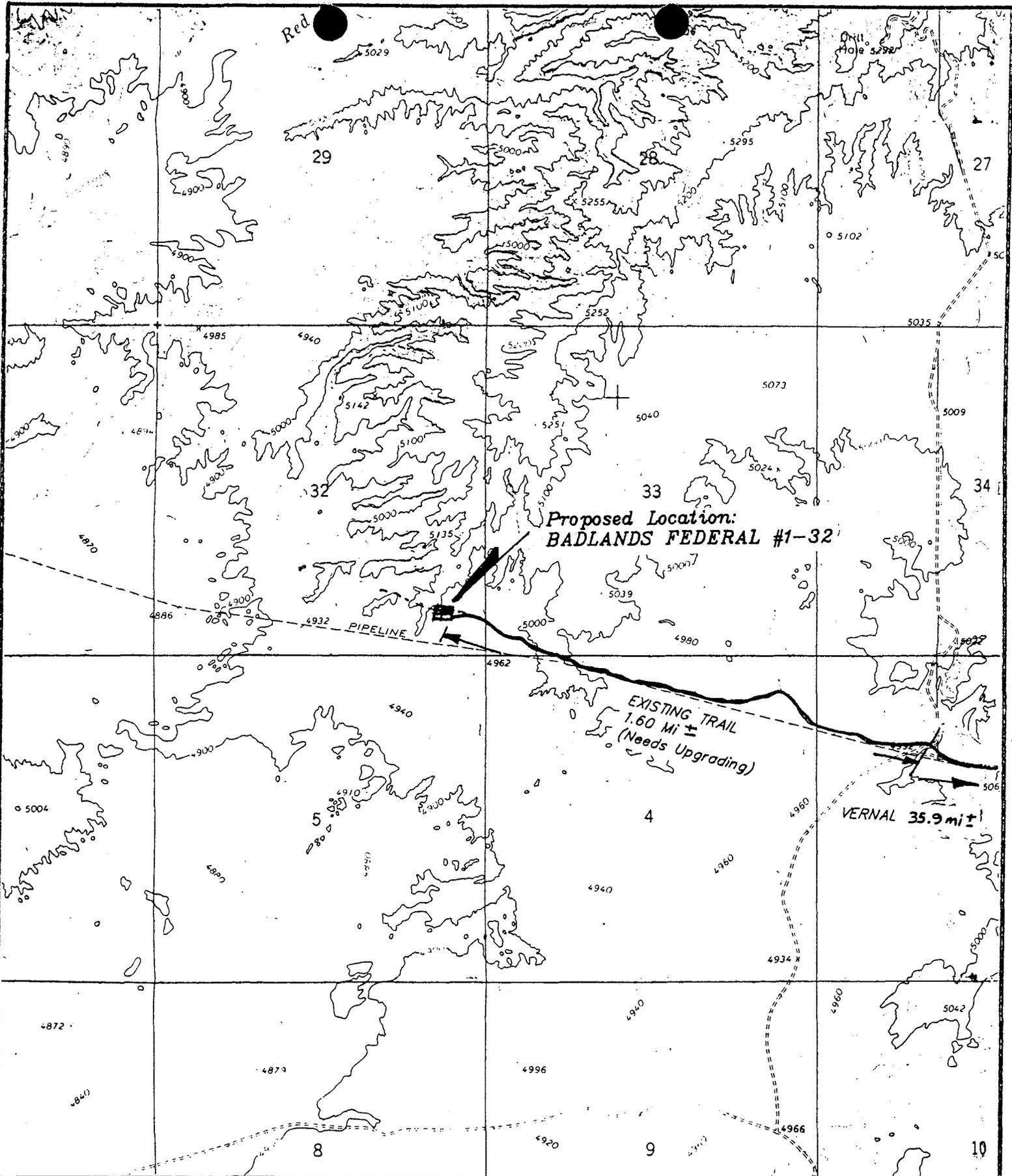


TOPOGRAPHIC  
MAP "A"



QUINTANA PETROLEUM CORPORATION

BADLANDS FEDERAL #1-32  
SECTION 32, T8S, R23E, S.L.B.&M.



TOPOGRAPHIC  
MAP "B"

SCALE: 1" = 2000'



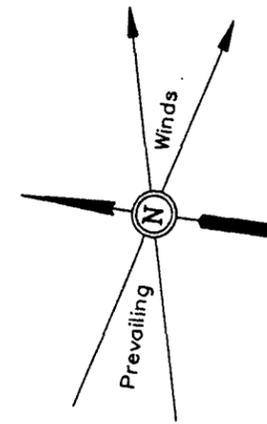
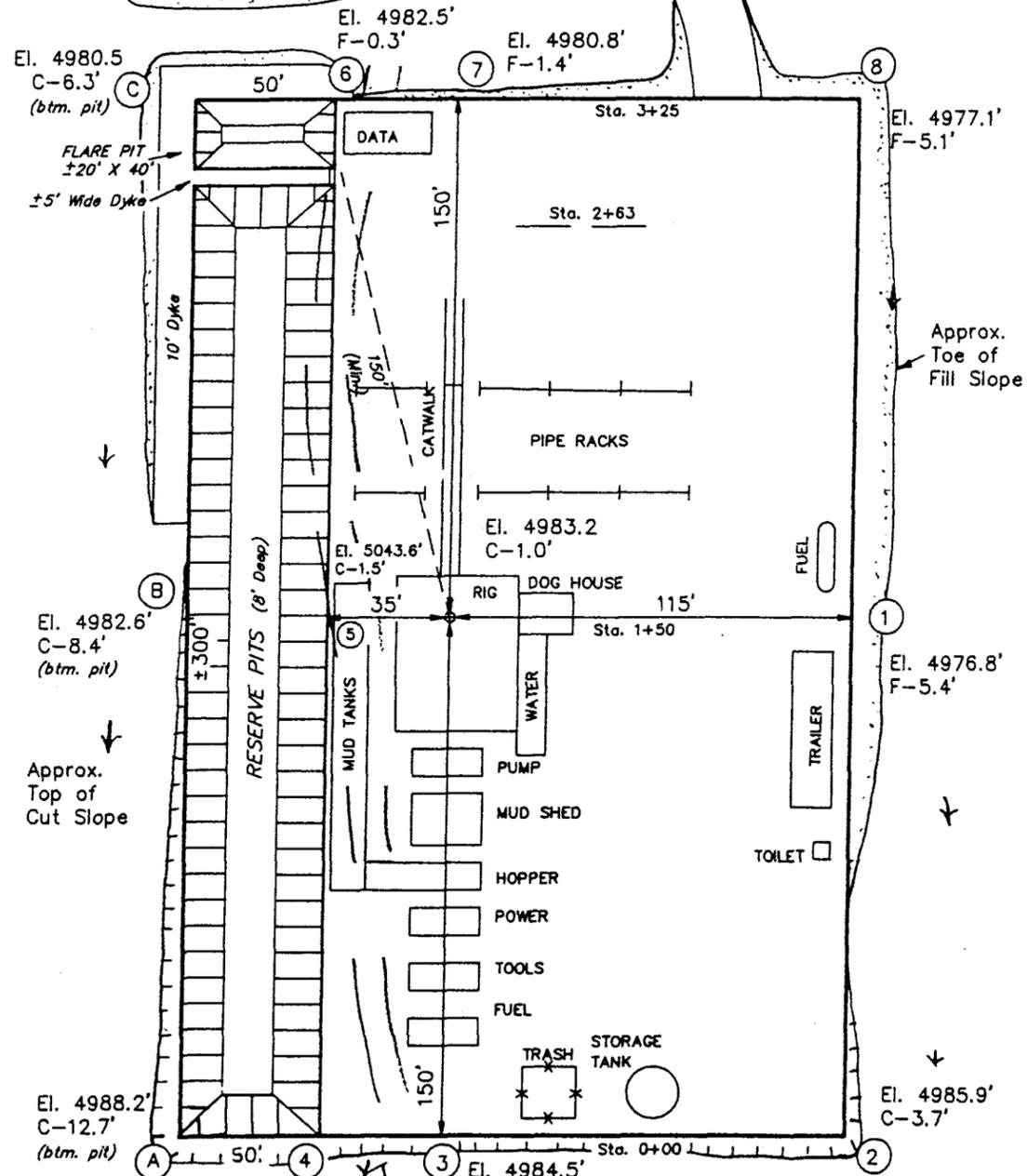
**QUINTANA PETROLEUM CORPORATION**

BADLANDS FEDERAL #1-32  
SECTION 32, T8S, R23E, S.L.B.&M.

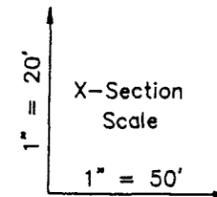
QUINTANA PETROLEUM CORPORATION

LOCATION LAYOUT FOR

BADLANDS FEDERAL #1-32  
SECTION 32, T8S, R23E, S.L.B.&M.

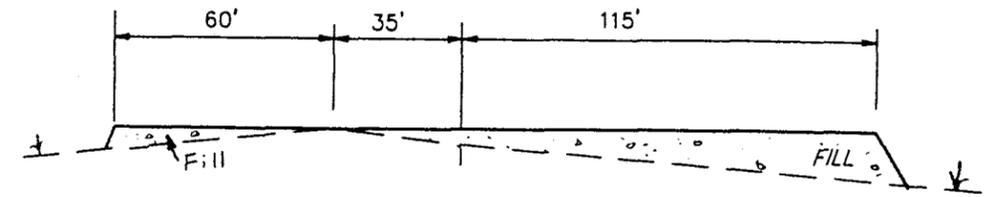


SCALE: 1" = 50'  
DATE: 5-21-89

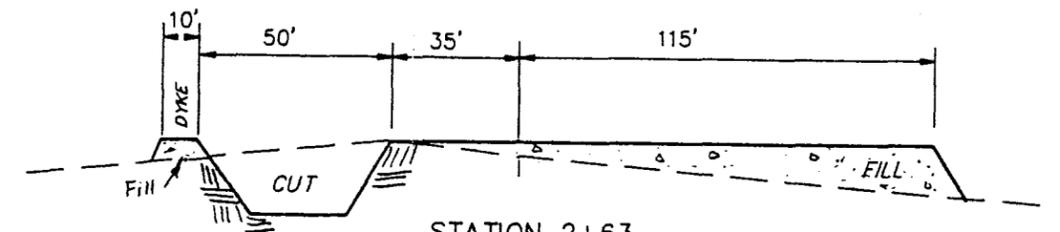


TYP. LOCATION LAYOUT

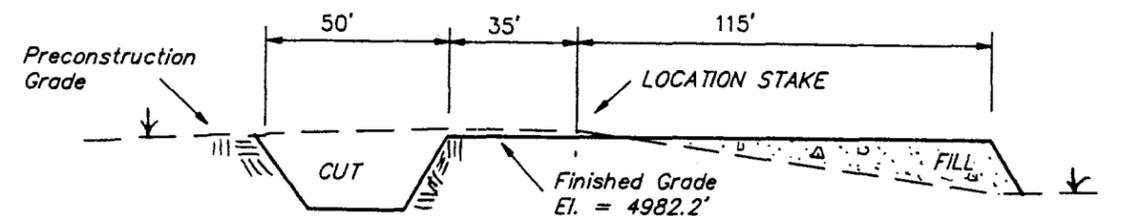
TYP. CROSS SECTIONS



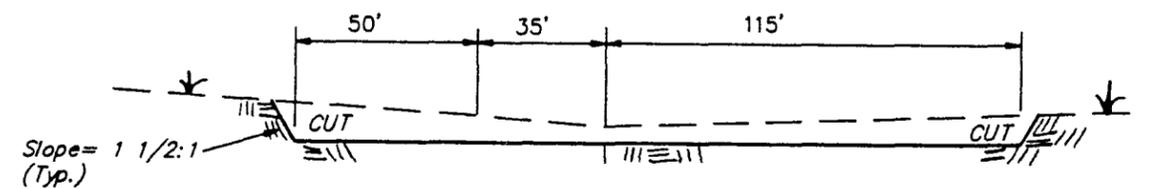
STATION 3+00



STATION 2+63



STATION 1+50



STATION 0+00

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,111 Cu. Yds.
Pit Volume (Below Grade)	= 3,243 Cu. Yds.
Remaining Location	= 1,801 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 6,155 CU.YDS.</b>
<b>FILL</b>	<b>= 3,398 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,578 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,732 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 154 Cu. Yds.

DIAGRAM #1

4442000m N

R23E



4441

4440

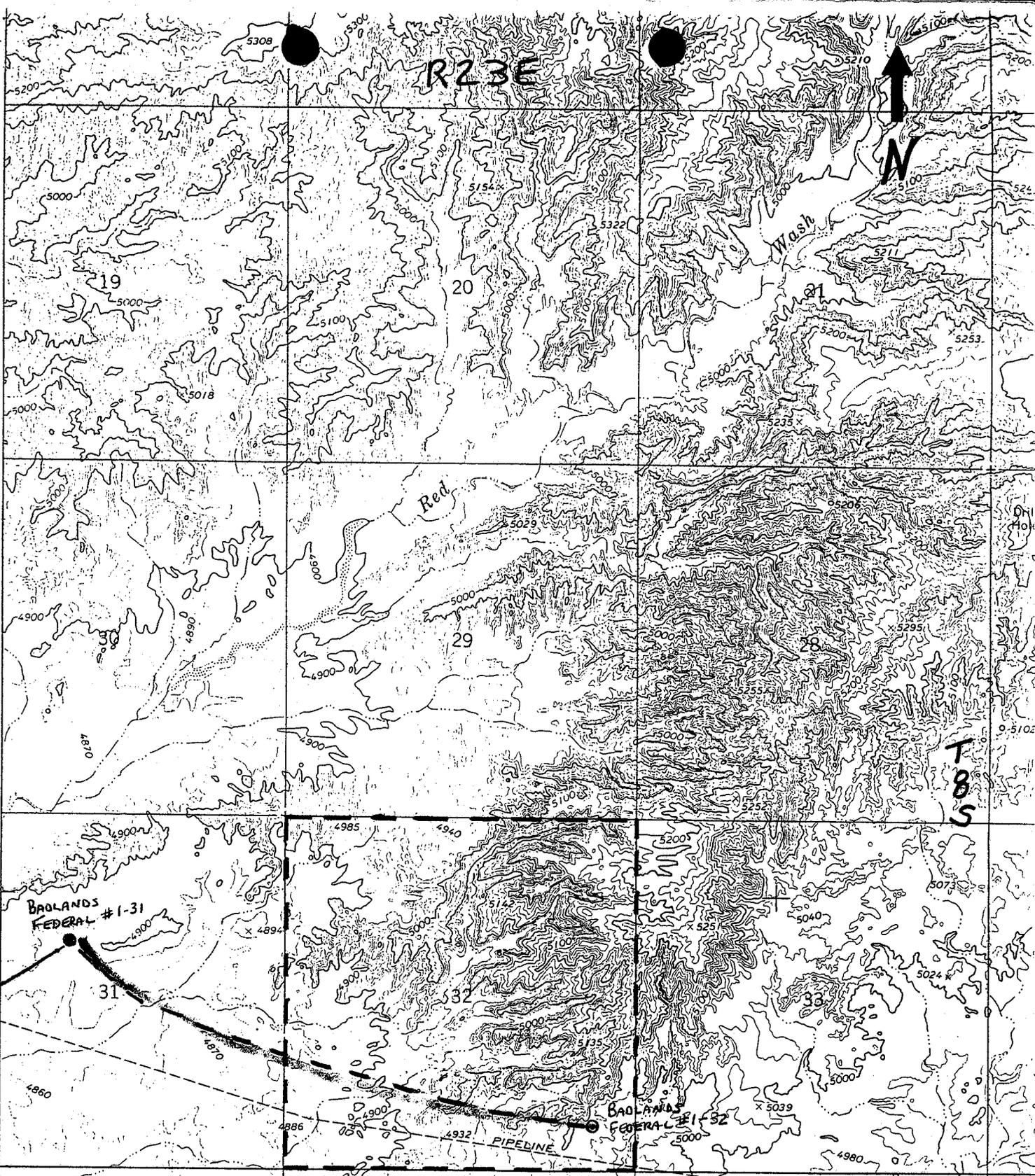
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T. 8 S.

T. 9 S.



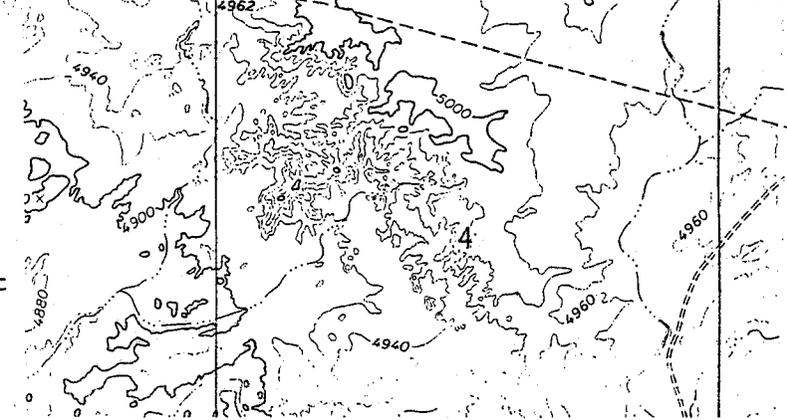
T  
8  
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Topo Map  
 Quintana Petroleum Corporation  
 BADLANDS FEDERAL #1-32  
 SE SE Section 32, T8S-R23E  
 Uintah County, Utah

- ⊙ Proposed Location
- Proposed Access Route
- New Access to be Built
- - - Lease Boundaries
- Producing Well

4164 III SW  
(RED WASH SW)

6





# CONFIDENTIAL

OPERATOR Quintana Petroleum Corp. (N9485) DATE 6-30-89

WELL NAME Badlands Federal #1-32

SEC SESE 32 T 8S R 23E COUNTY Uintah

43-047-31869  
API NUMBER

Federal  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Nearest well ok under Unit spacing.

Need Water Permit

Sec. 32 was Reconveyed #1208695 - was a State Lease m7-21016 now Federal per St. Lands.

Unit Approved 12-9-88 - This is the second obligation well. 1989 P.O.D. due in

APPROVAL LETTER: December of 89!

SPACING:  R615-2-3 Badlands  
UNIT

R615-3-2

CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

1 Water Permit

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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter  
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

July 11, 1989

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

Gentlemen:

Re: Badlands Federal #1-32 - SE SE Sec. 32, T. 8S, R. 23E - Uintah County, Utah  
613' FSL, 704' FEL

Approval to drill the referenced well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule R615-2-3, Oil and Gas Conservation General Rules, subject to the following stipulation:

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:

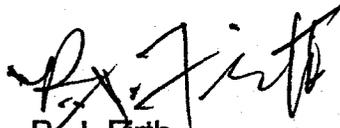
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2  
Quintana Petroleum Corporation  
Badlands Federal #1-32  
July 11, 1989

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. 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 43-047-31869.

Sincerely,



R. J. Pirth  
Associate Director, Oil & Gas

lcr  
Enclosures  
cc: Bureau of Land Management  
D. R. Nielson  
J. L. Thompson  
WE14/1-2

43-047-31869  
**UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT**

PERSONAL Nationwide Bond  
 SUBMIT IN THIS CATEGORY\*  
 (Other instructions on reverse side)

Form approved. CA0072  
 Budget Bureau No. 1004-0136  
 Expires August 31, 1985

**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  MULTIPLE ZONE

**RECEIVED**  
 AUG 11 1989

2. NAME OF OPERATOR  
 QUINTANA PETROLEUM CORPORATION DIVISION OF (303)628-9211  
 OIL, GAS & MINING

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  
 613' FSL & 704' FEL (SE SE)  
 At proposed prod. zone  
 Same

**CONFIDENTIAL**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 ±28 miles southeast of Vernal, Utah.

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 613'

16. NO. OF ACRES IN LEASE 640

17. NO. OF ACRES ASSIGNED TO THIS WELL 640

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

19. PROPOSED DEPTH 7900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4983' GR

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

5. LEASE DESIGNATION AND SERIAL NO.  
 UTU-56965

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

7. UNIT AGREEMENT NAME  
 Badlands Unit

8. FARM OR LEASE NAME  
 BADLANDS FEDERAL

9. WELL NO.  
 #1-32

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Section 32, T8S-R23E

12. COUNTY OR PARISH  
 Uintah

13. STATE  
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	250'	175 sxs Class "A"
7 7/8"	5 1/2"	15.50# & 17#	7900'	To be determined upon inspection of open hole logs.

Quintana Petroleum Corporation proposes to drill a well to 7900' to test the Wasatch and Mesa Verde formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

I hereby certify that Quintana Petroleum Corporation is authorized by proper lease interest owners to conduct operations at the above mentioned location. Bonding is provided by the Operator, Quintana Petroleum Corporation.

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 William TITLE Production Technician DATE 6/26/89

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE 8-8-89  
 CONDITIONS OF APPROVAL, IF ANY:

cc: State of Utah DOGM

**NOTICE OF APPROVAL**  
 UTU-56965-32

**CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY**

\*See Instructions On Reverse Side

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

D.V. OGM

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Quintana Petroleum Co. Well No. Badlands Federal #1-32

Location SE/SE Sec. 32 T 8S R 23E Lease No. U-56965

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.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders and the approved plan of operations.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to the hydrologist of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc. and individual components shall be operable as designed.

The Vernal District Office shall be notified, with sufficient lead time, in order to have a BLM representative present while pressure testing.

3. Casing Program and Auxiliary Equipment

The District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

\* Surface casing shall have centralizers on every fourth joint of casing starting with the shoe joint and up to the bottom of the cellar.

\* Usable water may be encountered at depths of + 100-500 ft., + 1393-1793 ft. and + 2793-3193 ft. in the Uinta Formation and from ± 3250-3375 ft. and ± 3793-4693 ft. in the Green River formation. The Mahogany oil shale and L1 oil shale have been identified from ± 2843-2965 ft. and ± 3020-3150 ft., respectively. Therefore, the

resources will be isolated and/or protected via the cementing program for the production casing by having a cement top for the intermediate casing at least 200 ft. above the oil shale. If Gilsonite is encountered while drilling, it will need to be isolated and/or protected.

4. Mud Program and Circulating Medium

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the Authorized Officer. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight, unless prior approval is obtained from the Authorized Officer.

A cement bond log (CBL), shall be utilized to determine the top of cement (TOC) for the production casing.

Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Authorized Officer (AO).

6. Notifications of Operations

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 AO.

The spud date will be reported orally to the AO within 48 hours after spudding.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Pursuant to NTL-2B, with the approval of a District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO 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. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Orders, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

#### 7. Other Information

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

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

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

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down 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.

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 AO 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 Vernal District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or work-over program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"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 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An additional one (1) year approval period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hour approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka  
Petroleum Engineer

(801) 781-1190

Ed Forsman  
Petroleum Engineer

(801) 789-7077

Revised October 1, 1985

Date NOS Received 5-22-89

CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL

Company/Operator Quintana  
Well Name & Number Badlands Federal 1-32  
Lease Number U-56965  
Location SE 1/4 SE 1/4 Sec. 32 T. 8S R. 23E  
Surface Ownership BLM

B. THIRTEEN POINT SURFACE USE PROGRAM:

1. Methods for Handling Waste Disposal

Reserve pit will require inspection prior to filling with water.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API NO. 43-047-31869

NAME OF COMPANY: QUINTANA PETROLEUM

WELL NAME: BADLANDS FEDERAL #1-32

SECTION SESE 32 TOWNSHIP 8S RANGE 23E COUNTY UINTAH

DRILLING CONTRACTOR OLSON

RIG # 2

SPUDED: DATE 8/29/89

TIME 2:45 p.m.

HOW ROTARY

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

**CONFIDENTIAL**

REPORTED BY ED JURYKOVSKY

TELEPHONE # 789-9020 ext. 118

DATE 8/31/89 SIGNED \_\_\_\_\_ TAS TAKEN BY: JRB

STATE OF UTAH  
 DIVISION OF OIL, GAS AND MINING  
 DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: QUINTANA PETROLEUM COMPANY MAN: ED JURYKOWSKI  
 WELL NAME: BADLANDS FEDERAL 1-32 API NO.: 4304731869  
 QTR/QTR: SESE SECTION: 32 TWP: 08 SOUTH RANGE: 23 EAST  
 CONTRACTOR: OLSEN RIG #2 PUSHER/DRLR: LEON SCHULTZ  
 INSPECTOR: CAROL KUBLY DATE: 09/05/89 OPERATIONS: DRILLING  
 SPUD DATE: 08/02/89 TOTAL DEPTH: 1820'

DRILLING AND COMPLETIONS

Y APD                    N WELL SIGN                    Y BOPE                    Y RESERVE PIT  
Y FLARE PIT            N BURN PIT                    N H2S                    N BLOOIE LINE  
Y SANITATION          Y HOUSEKEEPING            N VENTED/FLARED

PLUGGING AND ABANDONMENT

PRODUCING FM(S): \_\_\_\_\_

PLUGS:	TYPE/SIZE	INTERVAL
-----	-----	-----
-----	-----	-----
-----	-----	-----
-----	-----	-----
-----	-----	-----

PERFORATIONS: \_\_\_\_\_

CASING SIZE: \_\_\_\_\_ PULLED: YES / NO      CUT AT: \_\_\_\_\_

PLUGS TESTED: \_\_\_\_\_ HOW: \_\_\_\_\_ WOC: \_\_\_\_\_

MARKER: \_\_\_\_\_ SURFACE: \_\_\_\_\_ PLATE: \_\_\_\_\_

RECLAMATION

CONTOURED: \_\_\_\_\_ RIPPED: \_\_\_\_\_ REHAB'D: \_\_\_\_\_

LEGEND: (Y)- YES      (P)- PROBLEM      (U)- UNKNOWN      (BLANK)- NOT APPLICABLE

REMARKS: RESERVE PIT FENCED ON 3 SIDES, UNLINED AND 1/3 FULL, SET  
8 5/8" SFC PIPE AT 267'. BOPE TEST BY DOUBLE JACK TESTING.

**CONFIDENTIAL**

**RECEIVED**  
SEP 05 1989

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

OPERATOR ACCT. NO. N 9485

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	STATUS OF WELL	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE	
						QQ	SC	TP	RG	COUNTY			
B	99999	10745	43-047-31869		Badlands Unit Federal #1-32	SE	SE	32	8S	23E	Uintah	8/29/89	
WELL 1 COMMENTS:						Federal-Lease Second well in Badlands Unit Field-Undesignated Unit-Badlands Proposed Zone - MVRD (Unit has no P.A.'s, one other well in unit, MVRD form.) assign same entity of 10745 on 9-7-89. fcr							
WELL 2 COMMENTS:													
WELL 3 COMMENTS:													
WELL 4 COMMENTS:													
WELL 5 COMMENTS:													

**ACTION CODES (See instructions on back of form)**

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

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

(3/89)

J. Williams  
Signature  
Production Technician 8/30/89  
Title Date  
Phone No. (303) 628-9211

QUINTANA PETROLEUM CORPORATION

1325 S. COLORADO BLVD., SUITE B - 411

DENVER, COLORADO 80222

(303) 692-9559

RECEIVED

MAY 10 1991

DIVISION OF  
OIL GAS & MINING

May 8, 1991

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

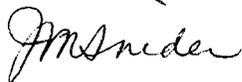
Attention: Debra

RE: Badlands Federal #1-32  
Well Completion Report

Dear Debra:

Per our conversation and your request, enclosed please find a copy of the Well Completion Report for the Badlands Federal #1-32 with the initial production information completed.

Very truly yours,



Jeannie Snider  
Production Technician

cc: Tom Liebsch

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

UTU-56965

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Badlands Unit

8. FARM OR LEASE NAME

BADLANDS FEDERAL

9. WELL NO.

#1-32

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 32, T8S-R23E

12. COUNTY OR PARISH

Uintah

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. RESVR.  Other \_\_\_\_\_

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

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 613' FSL & 704' FEL (SE SE)

At top prod. interval reported below  
Same

At total depth  
Same

~~CONFIDENTIAL~~

14. PERMIT NO. 43-047-31869 DATE ISSUED 7/11/89

15. DATE SPUDDED 8/29/89 16. DATE T.D. REACHED 9/26/89 17. DATE COMPL. (Ready to prod.) 1/4/90 (S.I.) 18. ELEVATIONS (OF, RKB, RT, GR, ETC.)\* 4983' GR 19. ELEV. CASINGHEAD 4983'

20. TOTAL DEPTH, MD & TVD 8600' 21. PLUG, BACK T.D., MD & TVD 8235' 22. IF MULTIPLE COMPL., HOW MANY\* → 23. INTERVALS DRILLED BY 0'-8600' ROTARY TOOLS N/A CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
7758'-7761', 7834'-7840', 7930'-7930' (O/A) and 8128'-8148' (O/A)  
Mesa Verde formation

25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN MUD LOG 6-21-90  
Microlog; DIL; Comp. Sonic; Comp. Density Dual Sp. Neutron; Acoustic CBL

27. WAS WELL CORED  
No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	267'	12 1/4"	179 sxs Class "G"	None
5 1/2"	17# & 20#	8297'	7 7/8"	385 sxs 50/50 Poz	None

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8125'	SN @8093'

31. PERFORATION RECORD (Interval, size and number)

7930'-7938' (O/A), 1 jspf, .38" (Zone 2)
8128'-8246' (O/A), 1 jspf, .38" (Zone 1)
7834'-7840', 2 jspf, 3 3/8" (Zone 3)
7758'-7761', 2 jspf, 3 3/8" (Zone 4)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7930'-7938' & 7	1166 bbls gelled fluid &
8128'-8246' }	105,700# 20/40 sd
7930'-7938' →	602 bbls gel fl. & 15,800# sd
7834'-7840' & 7	890 bbls gel fl. & 68000# 20/40 sd.

33.\* PRODUCTION 7758'-7761'

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
SI 1/4/90 12/30/90	Flowing	Producing SI

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1/1/91	24		→	2 BOPD	838 MCFD	4 BWPD	1:.002

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
900	1100	→	2 BOPD	838 MCFD	4 BWPD	--

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY Steve Holmes

35. LIST OF ATTACHMENTS  
Electric Logs

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

SIGNED Jmsnyder TITLE Production Technician DATE 6/19/90

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP	
				MEAS. DEPTH	TRUE VERT. DEPTH
No DST's			<p><b>RECEIVED</b></p> <p>MAY 10 1991</p> <p>DIVISION OF OIL GAS &amp; MINING</p>		
No Cores					

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Green River	1790'	
Green River	3570'	
X Marker	5040'	
Wasatch	7175'	
Mesaverde		

# QUINTANA PETROLEUM CORPORATION

1050 SEVENTEENTH STREET  
SUITE 400  
DENVER, COLORADO 80265  
(303) 6289211

June 19, 1990

Bureau of Land Management  
District Office  
170 South 500 East  
Vernal, Utah 84078

RE: Badlands Federal #1-32  
SE SE Section 32, T8S-R23E  
Uintah County, Utah

Gentlemen:

Enclosed for your files please find the following information on the subject well:

1. Well Completion Report (Form 3160-4)
2. Electric Logs
3. Sundry Notice - Summary of Operations a/o 1/4/90

Very truly yours,



Jeannie Snider  
Production Technician

/js  
enclosures

cc: State of Utah DOGM

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

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***

a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

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

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

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 613' FSL & 704' FEL (SE SE)  
At top prod. interval reported below Same  
At total depth Same

**CONFIDENTIAL**

14. PERMIT NO. 43-047-31869 DATE ISSUED 7/11/89

5. LEASE DESIGNATION AND SERIAL NO.

UTU-56965

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Badlands Unit

8. FARM OR LEASE NAME

BADLANDS FEDERAL

9. WELL NO.

#1-32

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 32, T8S-R23E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

15. DATE SPUNDED 8/29/89 16. DATE T.D. REACHED 9/26/89 17. DATE COMPL. (Ready to prod.) 1/4/90 (S.I.) 18. ELEVATIONS (DF, RKB, RT, OR, ETC.)\* 4983' GR 19. ELEV. CASINGHEAD 4983'

20. TOTAL DEPTH, MD & TVD 8600' 21. PLUG, BACK T.D., MD & TVD 8235' 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 0'-8600' 24. ROTARY TOOLS N/A 25. CABLE TOOLS N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 7758'-7761', 7834'-7840', 7930'-7930' (O/A) and 8128'-8148' (O/A) Mesa Verde formation 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Microlog; DIL; Comp. Sonic; Comp. Density Dual Sp. Neutron; Acoustic CBL 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	267'	12 1/4"	179 sxs Class "G"	None
5 1/2"	17# & 20#	8297'	7 7/8"	385 sxs 50/50 Poz	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	DEPTH SET (MD)	PACKER SET (MD)
N/A				2 3/8"	8125'	SN @8093'

31. PERFORATION RECORD (Interval, size and number)

7930'-7938' (O/A), 1 jspf, .38" (Zone 2)
8128'-8246' (O/A), 1 jspf, .38" (Zone 1)
7834'-7840', 2 jspf, 3 3/8" (Zone 3)
7758'-7761', 2 jspf, 3 3/8" (Zone 4)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7930'-7938' & 7930'-7938' →	1166 bbls gelled fluid &
8128'-8246' }	105,700# 20/40 sd
7930'-7938' →	602 bbls gel fl. & 15,800# sd
7834'-7840' & 7834'-7840' }	890 bbls gel fl. & 68000# 20/40

33.\* PRODUCTION 7758'-7761' sd.

DATE FIRST PRODUCTION SI 1/4/90 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 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

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

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

35. LIST OF ATTACHMENTS  
Electric Logs

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

SIGNED Jmsnyder TITLE Production Technician DATE 6/19/90

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

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

FORMATION  
 No DST's  
 No Cores

BOTTOM

TOP

DESCRIPTION, CONTENTS, ETC.

OIL AND GAS	
DN	RJF
1-JTB ✓	GLM
	SLS
2-DME ✓	
MICROFILM	
2-	FK E

38. GEOLOGIC MARKERS

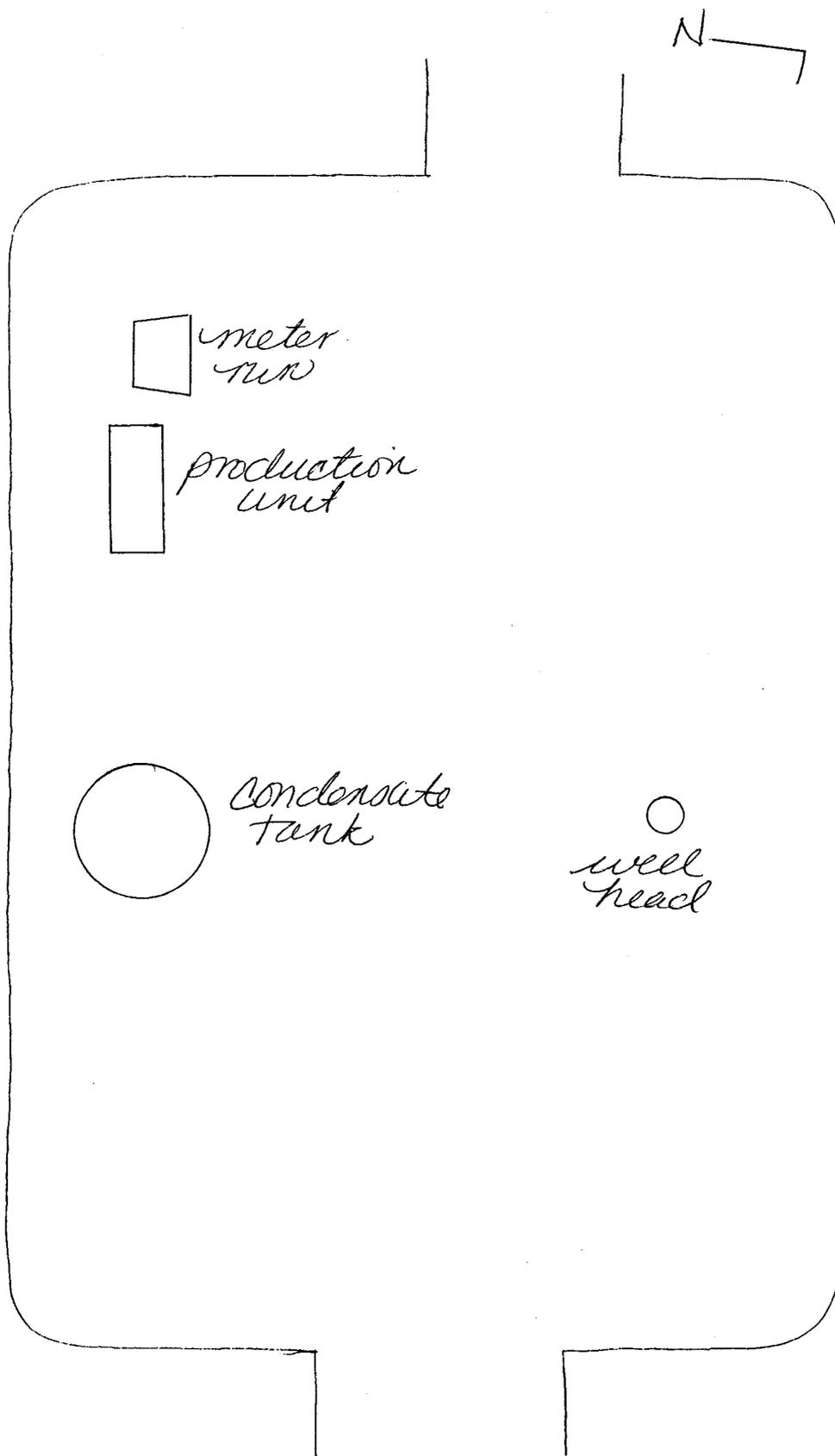
TOP

MEAS. DEPTH  
 TRUE  
 VERT. DEPTH

NAME

Green River 1790'  
 Green River 3570'  
 X Marker 5040'  
 Wasatch 7175'  
 Mesayerde

Badlands Fed 1-32 Sec 32 T 8 S<sub>1</sub> R 23 E Hubly 6.21.91



# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. NONE Rig No. \_\_\_\_\_

Date 12/5/90 QPC Representative: ES Jurykowsky WRI/AFE NO: 50017

Days Rig on Job: \_\_\_\_\_

WELL NAME & NO.: BADLANDS FEDERAL #1-32 Field/Sands: N. CHADITA/WASATCH

PBTD: 2520' Perf'd Interval: 2226'-32', 2310'-20' Circ. Fluid: \_\_\_\_\_ Density (ppg) \_\_\_\_\_ Visc. \_\_\_\_\_

PRESENT OPERATION: Flowing well to clean up frac fluid & CO<sub>2</sub>  
 OPERATIONS (Past 24 hours):

TIME	FLOWING WELL AS FOLLOWS:				
	CHOKE	FTP	CP	RATE	REMARKS
0600 HRS	32/64"	150	350	1000 MCF/D	- FAIR SPRAY FRAC FLUID
1100 HRS	32/64"	150	350	1000 MCF/D	- " " " "
	CHANGE CHOKE TO 40/64"				
1200 HRS	40/64"	95	350	1100 MCF/D	- INCREASE IN FLUID REC.
1300 HRS	40/64"	90	340	1000 MCF/D	- FLUID REC. DECREASING
1400 HRS	40/64"	85	335	950 MCF/D	- " " "
1800 HRS	40/64"	80	320	900 MCF/D	- " " "
0600 HRS	40/64"	70	270	820 MCF/D	- SPRAY FRAC FLUID
NOTE #1	APPROVAL FROM BLM MR. EK FOREMAN TO FLOW WELL BACK FOR 7 DAYS 12/5/90-12/12/90 FOR FRAC FLUID CLEAN UP DENVER WILL SEND SUNDAY TO BLM.				
NOTE #2	CO <sub>2</sub> IN THE FRAC FLUID COULD BE EFFECTING THE GAS RATE, AS THE FRAC FLUID DECREASES THE CO <sub>2</sub> GAS DECREASES AND GIVING US A LOWER GAS RATE - GAS WILL BE CHECKED THIS MORNING FOR CO <sub>2</sub>				
NOTE #3	FLUID SAMPLE @ 1300 HRS CHECKES OUT TO BE FRAC FLUID BY SMITH ENERGY SERVICES.				

### INTANGIBLE COSTS

Fuel	_____
Rig	_____
Circ. Fluid	_____
Cmt. / Acidizing	_____
Wireline	_____
Rentals	_____
Transportation	_____
Supplies	_____
Outside Labor	_____
Special Services	_____
Phone	_____
Supervision	<u>525</u>
DAILY TOTAL INTANGIBLE	<u>525</u>
CUMULATIVE INTANGIBLE FORWARD	<u>142,457</u>
CUMULATIVE INTANGIBLE TO DATE	<u>142,982</u>

### TANGIBLE COSTS

Tubular Goods	_____
Rods	_____
Well & Wellhead Equipment	_____
Downhole Equipment	_____
*CREDITS	_____
DAILY TOTAL TANGIBLE	<u>-</u>
CUMULATIVE TANGIBLE FORWARD	<u>-</u>
CUMULATIVE TANGIBLE TO DATE	<u>3148</u>

### TOTAL COSTS

DAILY TOTAL	<u>525</u>
CUMULATIVE FORWARD	<u>145,605</u>
TOTAL TO DATE	<u>146,730</u>

AFE/WR AMOUNT 94,100  
 BALANCE -52,030

\*CREDITS: \_\_\_\_\_

NOTES: \_\_\_\_\_

12/1/90

Bedlands #1-32

PBTD: same Perf; SAND

SI well 4 hr to repair flowline. SITP 1000 psi. Flow back  
froc fluids w/ good gas show w/ FTP 250 psi. SI well  
to change chokes. SITP 700 psi. Opened well @ 1400 hr  
on 24/64" choke.

<u>Time</u>	<u>FTP</u>	<u>Choke</u>	<u>Rate</u>	<u>Remarks</u>
1430	400	24/64	NA	Flow back load wtr.
1630	300	24/64	NA	" " " "
Left well open		over night	on 32/64" choke	
0600	150	32/64	= 1MMCF/D	still making good amt of load water.

Will continue to flow back well to pit; unload  
froc fluids.

# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. NONE Rig No. \_\_\_\_\_

Date 12/3/90 QPC Representative: EB JURYKOVSKY WRI/AFE NO. 50017

Days Rig on Job: \_\_\_\_\_

WELL NAME & NO.: BARLANDS FEDERAL #1-32 Field/Sands: N. CHADITA-WASATCH

PBTD: 7570' Perf'd Interval: 7226'-38', 7310'-20' Circ. Fluid: \_\_\_\_\_ Density (ppg) \_\_\_\_\_ Visc. \_\_\_\_\_

PRESENT OPERATION: FLOWING BACK FRAC FLUID ON 1/4" w/ 500 PSI TUBING PRESSURE,  
 OPERATIONS (Past 24 hours): CASING 700 PSI, HAD TO SHUT WELL IN @ 6000 HRS TO CHANGE  
TIME SPLIT NIPPLE IN FLOW LINE.

0430 HRS RIG UP SMITH ENERGY SERVICES, HELD SAFETY MEETING  
 PRESSURE TEST SURFACE LINES TO 6000 PSI, FRAC WELL WITH  
 TRIPLE ENTRY DOWN TUBING AND ANNULAS, USED 20,000 GALS  
 CMHPG POLYMER CROSS LINKER WITH A DUAL-METAL CROSSLINKER  
 WITH 500 SCF/BBL CARBON DIOXIDE, PUMPED AS FOLLOWS:  
 35,000 GAL GWX-4 PAD - INITIAL RATE 34.8 B/M @ 3900 PSI, FINAL RATE 34.8 B/M @ 4030 PSI  
 10,000 GAL GWX-4 w/ 1 PPG 20/40 SANDS - FINAL RATE 34.6 B/M @ 4010 PSI  
 10,000 GAL GWX-4 w/ 2 PPG 20/40 SANDS - FINAL RATE 34.4 B/M @ 4000 PSI  
 7,500 GAL GWX-4 w/ 3 PPG 20/40 SANDS - FINAL RATE 34.2 B/M @ 4100 PSI  
 7,500 GAL GWX-4 w/ 4 PPG 20/40 SANDS - FINAL RATE 36 B/M @ 4400 PSI  
 5,000 GAL GWX-4 w/ 5 PPG 20/40 SANDS - FINAL RATE 36 B/M @ 4500 PSI  
 5,000 GAL GWX-4 w/ 6 PPG 20/40 SANDS - FINAL RATE 30.1 B/M @ 4100 PSI  
 6,426 GAL FLUSH USED CMG-3,  
 TOTAL SANDS USED 142,000 #, TOTAL CO<sub>2</sub> 56 TONS.  
 251-2770 PSI, 5 mins 2600 PSI, 10 mins 2530 PSI, 15 mins 2480, 20 mins 2440 PSI  
 FRAC JOB COMPLETED @ 1151 HRS 12/3/90  
 START FLOWING BACK FRAC FLUID @ 1551 HRS 12/3/90 WELL HEAD  
 PRESSURE 1800 PSI, OPEN ON 1/4" CHOKE; AT 1730 HRS WELL HEAD  
 PRESSURE 1100 PSI, LEFT WELL ON 1/4" CHOKE OVER NIGHT.  
 TOTAL 2071 BBLs FRAC FLUIDS TO RECOVER.

### INTANGIBLE COSTS

Fuel	_____
Rig	_____
Circ. Fluid - CO <sub>2</sub>	<u>7,025</u>
Cmt. / Acidizing FRAC	<u>57,498</u>
Wireline	_____
Rentals	_____
Transportation	_____
Supplies	_____
Outside Labor	_____
Special Services	_____
Phone	_____
Supervision	<u>525</u>
DAILY TOTAL INTANGIBLE	<u>65,048</u>
CUMULATIVE INTANGIBLE FORWARD	<u>75,555</u>
CUMULATIVE INTANGIBLE TO DATE	<u>140,603</u>

### TANGIBLE COSTS

Tubular Goods	_____
Rods	_____
Well & Wellhead Equipment	_____
Downhole Equipment	_____
*CREDITS	_____
DAILY TOTAL TANGIBLE	<u>-</u>
CUMULATIVE TANGIBLE FORWARD	<u>2423</u>
CUMULATIVE TANGIBLE TO DATE	<u>-</u>

### TOTAL COSTS

DAILY TOTAL	<u>65,048</u>
CUMULATIVE FORWARD	<u>77,978</u>
TOTAL TO DATE	<u>143,026</u>

AFE/WR AMOUNT 94,100  
 BALANCE (-48,926)

\*CREDITS: \_\_\_\_\_

NOTES: \_\_\_\_\_





# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. B & B WELL SERVICE Rig No. 2

Date 11/6/90 QPC Representative: EB JURYKOVSKY WRI/AFE NO. 50017

Days Rig on Job: 16

WELL NAME & NO.: BADLANDS FEDERAL #1-32 Field/Sands: N. CHAPITA / WASATCH

PBD: 7570' Perf'd Interval: 7226'-38', 7310'-20' Circ. Fluid: 3% KCL Density (ppg) 8.4 Visc. WTR

PRESENT OPERATION: Flowing well to recover 3% KCL LADS WATER, @ 170 MCF/B  
OPERATIONS (Past 24 hours):

TIME	
0600-0700	CREW TRAVEL TO LOCATION.
0700-0900	RIG DOWN SERVICE RIG.
0900-1100	SERVICE RIG TRAVEL TO VERNAL.
	RIG RELEASED @ 0900 HRS, 11/6/90
	NIPPLE UP 5000 W.P TEE & FLANGE CHOKE ON WELL HEADS, LAYED FLOW LINE TO PIT, OPEN WELL TO PIT @ 1200 HRS, FLOWING TO RECOVER 3% KCL WATER.
	NOTE: #1, WATER SAMPLE AT END OF FLOW TEST @ 0800 HRS 11/5/90, SPECIFIC GRAVITY 1.065, PH 6 CHLORIDES 30,000 PPM. 24% CONDENSATE - 76% ACID KCL WATER.

### INTANGIBLE COSTS

Fuel	
Rig	<u>575</u>
Circ. Fluid	
Cmt. / Acidizing	
Wireline	
Rentals	<u>30</u>
Transportation	
Supplies	
Outside Labor	<u>350</u>
Special Services	
Phone	
Supervision	<u>450</u>
DAILY TOTAL INTANGIBLE	<u>1405</u>
CUMULATIVE INTANGIBLE FORWARD	<u>64,748</u>
CUMULATIVE INTANGIBLE TO DATE	<u>66,153</u>

### TANGIBLE COSTS

Tubular Goods	
Rods	
Well & Wellhead Equipment	<u>1923</u>
Downhole Equipment	
*CREDITS	
DAILY TOTAL TANGIBLE	<u>1923</u>
CUMULATIVE TANGIBLE FORWARD	<u>500</u>
CUMULATIVE TANGIBLE TO DATE	<u>2423</u>

### TOTAL COSTS

DAILY TOTAL	<u>3828</u>
CUMULATIVE FORWARD	<u>65,248</u>
TOTAL TO DATE	<u>69,076</u>

AFE/WR AMOUNT 94,100

\*CREDITS: 31 JTS (946.97) 4.7" N-80 8RB EUE TUBING, 2 1/2" BALANCE 25,024

### NOTES:

TRANSFER # 4221 - WELL HEAD EQUIPMENT, FROM MARIA-CO  
" # 4222 - 2 1/2" TUBING TO QUINTANA STOCK ON RAY VARS, 31 JTS  
" # 4223 - 2 1/2" BLAST JT, FROM BAKER

# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. B & B WELL SERVICE Rig No. 2

Date 11/5/90 QPC Representative: ED TURKOVSKY WRIAFE NO. 50017

Days Rig on Job: 15

WELL NAME & NO.: B&B LAKE FEDERAL #1-32 Field/Sands: N. CHARITA/WASATCH

PBTD: 7572 Perf'd Interval: 7226-38, 7310-20 Circ. Fluid: 3% KCL Density (ppg) 8.4 Visc. WTR.

PRESENT OPERATION: SWABING & BLOWING WELL CLEAN.

OPERATIONS (Past 24 hours):

TIME	DESCRIPTION	
0600-0700	CREW TRAVEL TO LOCATION, WELL FLOWING 1/2" CHOKE 15' PSI = 170 MCF/D.	
0700-1030	PUMPED 27 BBLs 3% KCL DOWN TUBING, UNSEAT PKR, TRIP IN LATCH BRIDGE PLUS REVERSE CIR. GAS PUT INTR. 60 MINS, TO H	
1030-1800	TOTAL PRODUCTION STRINGS AS FOLLOWS, LANE TUBING NOT TREE.	
	1 - 2 3/8" NOTCHED TUBING COLLAR	.40'
	1ST - 2 3/8" 4.7" J-55 EUE 8RB TUBING	30.99'
	1 - 2 3/8" EUE 8RB STR. API SEAT NIPPLE (1.785" ID)	1.10'
	59 ST - 2 3/8" 4.7" J-55 EUE 8RB TUBING	1826.74'
	126 ST - 2 3/8" 4.7" N-80 EUE 8RB TUBING	5296.46'
	1 - ST. BAKER BLAST JT.	10.00'
	TOTAL TUBING & EQUIPMENT	7165.68'
	DISTANCE R.K.B. TO TOP OF TUBING HEAD ASSEMBLY	+ 12.80'
	BOTTOM OF NOTCHED COLLAR	7178.48'
	LESS EQUIPMENT BELOW SEAT NIPPLE	- 32.48'
	TOP OF SEATING NIPPLE	7146.00'
	LANDED TUBING HANGER W/ 33,700 #	
1300-1730	SWAB TOTAL OF 114 BBLs OF GASSEY HARD WATER WITH 13 RUNS, FLUID LEVEL 5200', PULL FROM SEATING NIPPLE. 34 BBLs LEFT TO RECOVER, PUT WELL ON 1/2" CHOKE TO PIT OVER NIGHT - WITH SLIGHT GAS BLOW.	
1730-1830	CREW TRAVEL TO VERNAL.	

### INTANGIBLE COSTS

Fuel	
Rig	1787
Circ. Fluid	
Cmt. / Acidizing	
Wireline	
Rentals	30
Transportation	
Supplies	
Outside Labor	
Special Services PKR.	2405
Phone	B.P.
Supervision	475
DAILY TOTAL INTANGIBLE	4697
CUMULATIVE INTANGIBLE FORWARD	60,051
CUMULATIVE INTANGIBLE TO DATE	64,748

### TANGIBLE COSTS

Tubular Goods	
Rods	
Well & Wellhead	
Equipment	
Downhole	
Equipment Blast JT.	500
*CREDITS	
DAILY TOTAL TANGIBLE	500
CUMULATIVE TANGIBLE FORWARD	NONE
CUMULATIVE TANGIBLE TO DATE	500

### TOTAL COSTS

DAILY TOTAL	5197
CUMULATIVE FORWARD	60,051
TOTAL TO DATE	65,248

AFEWR AMOUNT 94,100  
BALANCE 28,852

\*CREDITS:

NOTES:





FLOW REPORT

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Report Date 11/4/90

GPC REPRESENTATIVE ES Jurykovsky

WELL NAME AND NUMBER BADLANCS FES #1-32

PERF'D INTERVAL 7226'-38', 7310'-20'

FIELD/SANDS N. CAPITAL/WASATCH

TO 85'85' PBD 75'70'

FROM GEARHART-JURNAL 11/05/90 08:43 P. 8

DATE OF TEST				RECOVERY (BBLs)					REMARKS
TIME	CHOKE	FTP	CP	OIL	CUM OIL	WATER	CUM WATER	GAS RATE	
<u>11/4/90</u>									
<u>0600</u>	<u>1/8"</u>	<u>15"</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>170</u>	<u>FULL SPRAY SAME</u>
<u>TOOK FLUID SAMPLE TO SMITH ENERGY - CHLORIDES 60,000 PPM, PH=6, INDICATES ACID WTR. MIXED w/ KCL WTR.</u>									
<u>WITH 14% CONDENSATE</u>									
<u>CHANGE TO 3/16 CHOKE</u>									
<u>0700</u>	<u>3/16</u>	<u>190</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>150</u>	
<u>1400</u>	<u>3/16</u>	<u>210</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>162</u>	<u>FULL SPRAY STEPPED</u>
<u>1500</u>	<u>3/16</u>	<u>210</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>162</u>	<u>NO FLUID</u>
<u>1530</u>	<u>OPEN CHOKE TO 3/4" - BLEW GOOD WELL, REC. STRONG SPRAY FLUID, SLOWLY DECREASES 30 MINS</u>								
<u>1600</u>	<u>- PUT WELL BACK ON 1/2" CHOKE.</u>								
<u>1700</u>	<u>1/2"</u>	<u>17</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>180</u>	<u>WITH FLUID SPRAY</u>

T.D. P. 03











# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. B & B WELL SERVICE Rig No. 2

Date 11/1/90 QPC Representative: EB TURKOVSKY WRIAFE NO. 50017

Days Rig on Job: 11

WELL NAME & NO.: BADLANDS FEDERAL #1-32 Field/Sands: N. CHARITA / WASATCH

PBTD: 7570' Perf'd Interval: 7226'-38', 7310'-20' Circ. Fluid: 3% KCL Density (ppg) 8.4 Visc. WTR.

PRESENT OPERATION: RECOVERING ACID WATER FROM WELL.

OPERATIONS (Past 24 hours):

TIME	OPERATIONS
0530-0630	CREW TRAVEL TO LOCATION.
0630-0830	SHUT IN TUBING 1800 PSI, 5 1/2" CASING 300 PSI, BLEB OFF PRESSURE & KILL WELL w/ 3% KCL WATER.
0830-1530	TRIP FOR RTTS PACKER & BRIDGE PLUG, SET B.P @ 7348', SET PACKER @ 7340' TEST PACKER & TUBING TO 3000 PSI - HELD OK. SET PACKER @ 7276', INJECTION RATE .6 BPM w/ 1550 PSI, SPOT ACID TO 7026', CHASE BYPASS PERFORATION BREAK 7310'-20' USES 724 GALS 15% HCL ACID w/ 32 BALLS MAX RATE 2.4 B/M @ 2250 PSI, GOOD BALL ACTION - NO BALL OUT, ISIP 1820 PSI, 5' MINS 1470 PSI. STAGE #1, COMPLETES.
	STAGE #2, SET BRIDGE PLUG @ 7287' TEST TO 3000 PSI - HELD OK, SET PACKER @ 7218', PERFORATION BREAK DOWN 7226'-38', INJECTION RATE .5 BPM @ 2200 PSI, SPOT ACID TO 7000', CHASE BY PASS, HELD 500 PSI ON ANNULAS, USES 1076 GALS 15% HCL ACID w/ 26 BALLS, MAX RATE 2 BPM @ 2500 PSI, ISIP 2270 PSI, 5' MINS 2080 PSI. STAGE #2, COMPLETES.
1530-1600	MOVED BRIDGE DOWN TO 7349', SET PACKER @ 7187' & RIG UP TO SWAB.
1600-1730	SWAB TOTAL OF 31 BBLS LOAD WTR. + 5.7 BBLS ACID WTR. IN 6 RUNS, FLUID LEVEL @ 2500', PULL FROM 4300' - 42.3 BBLS ACID WTR. TO RECOVER. SHUT DOWN DUE TO DARKNESS - PUT WELL ON 1/4" CHOKE TO PIT w/ SMALL GAS BLEND.
1730-1830	CREW TRAVEL TO VERNAL.

### INTANGIBLE COSTS

Fuel	_____
Rig	<u>1589</u>
Circ. Fluid	_____
Cmt. / Acidizing	<u>3115</u>
Wireline	_____
Rentals	_____
Transportation	_____
Supplies	_____
Outside Labor	_____
Special Services PKR	<u>1500</u>
Phone	_____
Supervision	<u>475</u>
<b>DAILY TOTAL INTANGIBLE</b>	<u><b>6679</b></u>
<b>CUMULATIVE INTANGIBLE FORWARD</b>	<u><b>50,858</b></u>
<b>CUMULATIVE INTANGIBLE TO DATE</b>	<u><b>57,537</b></u>

### TANGIBLE COSTS

Tubular Goods	_____
Rods	_____
Well & Wellhead Equipment	_____
Downhole Equipment	_____
<b>*CREDITS</b>	_____
<b>DAILY TOTAL TANGIBLE</b>	_____
<b>CUMULATIVE TANGIBLE FORWARD</b>	_____
<b>CUMULATIVE TANGIBLE TO DATE</b>	<u><b>NONE</b></u>

### TOTAL COSTS

<b>DAILY TOTAL</b>	<u><b>6679</b></u>
<b>CUMULATIVE FORWARD</b>	<u><b>50,858</b></u>
<b>TOTAL TO DATE</b>	<u><b>57,537</b></u>

AFE/WR AMOUNT 94100  
BALANCE 36,563

\*CREDITS: \_\_\_\_\_

NOTES: \_\_\_\_\_

SWAB REPORT  
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GPC REPRESENTATIVE ES Sturykovsky

DATE 11/1/70

WELL NAME AND NUMBER BRBLANDS FED. #1-32

FIELD/SANDS N. CHARITA/W. BATEA

TD 8585' PBD 7520'

PERF'D INTERVAL 7226'-38'  
7310'-20'

TIME	RUN NO.	FLUID LEVEL	SWABBED FROM	RECOVERY (BBLs)		GAS RATE	REMARKS
				OIL	WATER		
1620	1	SURFACE	1500'	-	5.8	-	LOAD WATER
1630	2	700'	2800'	-	6.9	-	" "
1645	3	1500'	3000'	-	5.8	-	" "
1700	4	2200'	3700'	-	5.8	-	" "
1715	5	2300'	3800'	-	5.5	5HOW	" "
1730	6	2500'	4300'	-	6.7	FAIR Blow	1.2 BBLs LOAD WTR
							5.7 BBLs ACID WTR.
SHUT DOWN DUE TO DARKNESS							
PUT WELL ON 1/4" CHOKE, LEFT OPEN TO PIT w/ SMALL GAS Blow.							
							REC. 31 BBLs LOAD WTR.
							5.7 BBLs ACID WTR.
							42.3 BBLs ACID WTR TO RECOVER.
			TOTAL	*****	*****		
							36.7

# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. B & B WELL SERVICE Rig No. 2

Date 10/31/90 QPC Representative: ED TURKOVSKY WRI/AFE NO. 50017

Days Rig on Job: 10

WELL NAME & NO.: BADLANDS FEDERAL #1-32 Field/Sands: N. CHAPITA / URSATEH

PBTD: 7570' Perf'd Interval: 7226'-38', 7310'-20' Circ. Fluid: 3% KCL Density (ppg) 8.4 Visc. WTR.

PRESENT OPERATION: CIRCULATING OUT GAS CUT WTR, TO TRIP FOR RTTS PKR. & BRISGE PLUG.  
 OPERATIONS (Past 24 hours):

TIME	OPERATIONS
0530-0630	CREW TRAVEL TO LOCATION
0630-0830	PICK UP WASH TOOL & T/H
0830-1430	RIL SMITH ENERGY, TEST SURFACE LINES 4000 PSI - OK, TEST WASH TOOL 2000 PSI - OK. PUMP INTO PERFORATIONS AS FOLLOWS: USING 15% HCL ACID. 7320' - PRESSURE TO 2500 PSI, NO ENTRY 7319' - " TO 2000 PSI, NO ENTRY 7318' - " TO 2000 PSI, BLEB OFF TO 1400 PSI IN 2 MIN - COMMUNICATION ANNULAS 7317' - " TO 2000 PSI, BLEB OFF TO 1250 PSI IN 1 MIN - COMMUNICATION ANNULAS 7316' - " TO 2000 PSI, BLEB OFF TO 1200 PSI IN 1 MIN - COMMUNICATION ANNULAS DRIP DOWN BELOW PERFS @ 7335', TEST 2000 PSI, TOOL LEAKING @ 7330', TEST 1000 PSI COMMUNICATION UP ANNULAS Pull up to 7100' ABOVE ALL PERFS, TEST 2000 PSI, BLEB OFF TO 1000 PSI IN 3/4 MIN. PRESSURE UP ANNULAS TO 2000 PSI @ 7100' - HELD OK TRIP BACK TO 7335' TEST TO 2000 PSI - HELD OK. RETEST @ 7316' - PRESSURE TO 1800 PSI, BLEB TO 0 PSI 1 MIN COMMUNICATION UP ANNULAS 7315' - HAS COMMUNICATION WITH OUT PUMPING. 7314' - PRESSURE 400 PSI - HAS COMMUNICATION UP ANNULAS 7313' - PRESSURE 1000 PSI - BLEB TO 500 PSI IN 1 MIN - COMMUNICATION UP ANNULAS NEXT PAGE

### INTANGIBLE COSTS

Fuel	_____
Rig	_____
Circ. Fluid	_____
Cmt. / Acidizing	_____
Wireline	_____
Rentals	_____
Transportation	_____
Supplies	_____
Outside Labor	_____
Special Services	_____
Phone	_____
Supervision	_____
DAILY TOTAL INTANGIBLE	_____
CUMULATIVE INTANGIBLE FORWARD	_____
CUMULATIVE INTANGIBLE TO DATE	_____

### TANGIBLE COSTS

Tubular Goods	_____
Rods	_____
Well & Wellhead Equipment	_____
Downhole Equipment	_____
*CREDITS	_____
DAILY TOTAL TANGIBLE	_____
CUMULATIVE TANGIBLE FORWARD	_____
CUMULATIVE TANGIBLE TO DATE	<u>NONE</u>

### TOTAL COSTS

DAILY TOTAL	_____
CUMULATIVE FORWARD	_____
TOTAL TO DATE	_____

AFE/WR AMOUNT \_\_\_\_\_  
 BALANCE \_\_\_\_\_

\*CREDITS: \_\_\_\_\_

NOTES: \_\_\_\_\_

# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. \_\_\_\_\_ Rig No. \_\_\_\_\_

Date 10/31/90 QPC Representative: \_\_\_\_\_ WRI/AFE NO. \_\_\_\_\_

Days Rig on Job: 10

WELL NAME & NO.: \_\_\_\_\_ Field/Sands: \_\_\_\_\_

PBTD: 2570' Perf'd Interval: \_\_\_\_\_ Circ. Fluid: \_\_\_\_\_ Density (ppg) \_\_\_\_\_ Visc. \_\_\_\_\_

PRESENT OPERATION: PAGE # 2

OPERATIONS (Past 24 hours):

TIME	OPERATIONS
	7312' - PUMPS 2 BBLs ACID INTO PERFORATION @ .6 BPM WITH 1460 PSI
	7311' - PRESSURE TO 2000 PSI - NO ENTRY.
	SET TOOL @ 7315', PUMP REST OF ACID AWAY - 18 BBLs @ 1-BPM w/ 2350 PSI, HELD 500 PSI ON ANNULAS.
	PULLED UP TO BREAK DOWN NEXT SET OF PERFORATIONS @ 7276'-38'
	7239' - TEST WASH TOOL TO 2500 PSI - HELD OK.
	7234' - PRESSURES UP w/ 3% KCL INTR TO 2000 PSI - COMMUNICATION UP ANNULAS
	7231' - PRESSURES UP TO 700 PSI - HAVE COMMUNICATION UP ANNULAS.
	SET TOOL @ 7215' - TEST TOOL TO 2000 PSI - HELD OK.
1430-1500	PULLED STANDARDS VALUE w/ WIRE LINE.
1500-1800	START SWABBING, SWAB 27 BBLs 100% WITH IN 5' RUNS FROM 5200'
	WELL STARTED TO UNLOAD ACID WATER, TURNED WELL INTO DIT, UNLOAD ACID WATER FOR 10 MINS & DIED. SWAB ADDITIONAL 8 BBLs ACID INTR w/ STRONG GAS BLEND. FLUID LEVEL @ 1000' PULL FROM 2900'
	ANNULAS WENT ON VACUUM - POSSIBLE PACKER LEAKING.
	SHUT DOWN DUE TO DARKNES.
1800-1900	CREW TRAVEL TO VERNAL.

### INTANGIBLE COSTS

Fuel	_____
Rig	<u>1783</u>
Circ. Fluid	<u>352</u>
Cmt. / Acidizing	<u>1852</u>
Wireline	_____
Rentals	<u>30</u>
Transportation	_____
Supplies	_____
Outside Labor	_____
Special Services-PKR.	<u>2880</u>
Phone	_____
Supervision	<u>475</u>
DAILY TOTAL INTANGIBLE	<u>7372</u>
CUMULATIVE INTANGIBLE FORWARD	<u>43,486</u>
CUMULATIVE INTANGIBLE TO DATE	<u>50,858</u>

### TANGIBLE COSTS

Tubular Goods	_____
Rods	_____
Well & Wellhead Equipment	_____
Downhole Equipment	_____
*CREDITS	_____
DAILY TOTAL TANGIBLE	_____
CUMULATIVE TANGIBLE FORWARD	_____
CUMULATIVE TANGIBLE TO DATE	<u>NONE</u>

### TOTAL COSTS

DAILY TOTAL	<u>7372</u>
CUMULATIVE FORWARD	<u>43,486</u>
TOTAL TO DATE	<u>50,858</u>

AFE/WR AMOUNT 94,100  
BALANCE 43,242

\*CREDITS: \_\_\_\_\_

NOTES: \_\_\_\_\_

# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. B & B WELL SERVICE Rig No. 2

Date 10/20/90 QPC Representative: EB TURKOVSKY WRI/AFE NO. 50017

Days Rig on Job: 9

WELL NAME & NO.: BABLANDS Field/Sands: N. CHADITA/WASATCH

PBTD: 7570' Perf'd Interval: 7226'-38', 7310'-20' Circ. Fluid: 3% KCL Density (ppg) 8.4 Visc. WTR

PRESENT OPERATION: TIM WITH MOUNTAIN STATE WASH TOOL

OPERATIONS (Past 24 hours):

TIME

0600 Hrs	WELL FLOWING ON 3/16" CHUKE, TUBING 75 PSI = 65" MCF/D.
0600-0700	CREW TRAVEL TO LOCATION.
0700-1430	RIG UP SMITH ENERGY PUMP TRUCK, PRESSURE TEST SURFACE LINES TO 5500 PSI + REPAIRED LEAKS - HELD OK, FILLED TUBING w/ 28.2 BBLs 3% KCL WTR. RELEASE PKR, TIM BELOW PERFORATIONS, REVERSE TUBING CAPACITY RECOVERED 2 BBLs HEAVY DIRTY FLUID, OVER DISPLACED BY 40 BBLs & WTR STILL CASSELY, PUMPED 30 BBLs 3% KCL WTR DOWN TUBING SET WASH TOOL BELOW PER FORATION PRESSURE TEST TUBING + WASH TOOL TO 3000 PSI. - HELD - OK. UNSEAT WASH TOOL + SPOT 22 BBLs ACID TO 7070', DROPPED STANDING VALVE, TESTED TO 2500 PSI - OK. MOVED WASH TOOL UP TO FIRST PERFORATION @ 7320', START PUMPING PRESSURE UP TO 2500 PSI + STARTED GETTING COMMUNICATIONS UP ANNULAS, DROPPED BACK DOWN BELOW PERFS. PRESSURE UP TO 1500 PSI, HAD COMMUNICATIONS UP ANNULAS, RESET TOOL SEVERAL TIMES w/ SAME RESULTS. PICKED UP + SET WASH TOOL ABOVE ALL PERFORATIONS @ 7190', PRESSURE UP TO 1200 PSI HAD COMMUNICATION UP ANNULAS, WASH TOOL LEAKING, TRIP BACK IN BELOW ALL PERFORATIONS + REVERSE 22 BBLs ACID TO RESERVE PIT. RAN WIRE LINE + RETRIEVED STANDING VALVE FROM WASH TOOL.
1430-1630	TOH - O RINGS & MANDRELS WASHED OUT ON WASH TOOL
1630-1730	CREW TRAVEL TO VERNAL.

### INTANGIBLE COSTS

Fuel	
Rig	1367
Circ. Fluid	193
Cmt. / Acidizing	1773
Wireline	
Rentals	30
Transportation	
Supplies	
Outside Labor	
Special Services	
Phone	
Supervision	475
DAILY TOTAL INTANGIBLE	3838
CUMULATIVE INTANGIBLE FORWARD	39648
CUMULATIVE INTANGIBLE TO DATE	43486

### TANGIBLE COSTS

Tubular Goods	
Rods	
Well & Wellhead Equipment	
Downhole Equipment	
*CREDITS	
DAILY TOTAL TANGIBLE	
CUMULATIVE TANGIBLE FORWARD	
CUMULATIVE TANGIBLE TO DATE	NONE

### TOTAL COSTS

DAILY TOTAL	3838
CUMULATIVE FORWARD	39648
TOTAL TO DATE	43486

\*CREDITS: \_\_\_\_\_

AFE/WR AMOUNT 94,100  
BALANCE 50,614

NOTES: \_\_\_\_\_

FLOW REPORT  
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Page 1/1  
Report Date 10/29/90

OPC REPRESENTATIVE EB Jurykovsky  
WELL NAME AND NUMBER BABBLANDS FEB. #1-32

PERF'D INTERVAL 7226'-38', 7210'-20'  
FIELD/SANDS N. CHOPITA/WASATCH  
TO 83'0.5' PBTD 75'70'

DATE OF TEST	RECOVERY (BBLs)							REMARKS	
	TIME	CHOKE	FTP	CP	OIL	CUM OIL	WATER		CUM WATER
	Flow well while waiting on pump truck to break down perforations.								
0600	1/8"	200	0	-	-	-	-	65' MCF/B	
0600	3/16"	CHANGE							
1100	3/16"	75	0	-	-	-	-	65' MCF/B	
1200	3/16"	75	0	-	-	-	-	65 "	
1300	3/16"	75	0	-	-	-	-	65 "	
1400	3/16"	75	0	-	-	-	-	65 "	



# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. B & B WELL SERVICE Rig No. 2

Date 10/28/90 QPC Representative: ED JURYKOVSKY WRI/AFE NO. 50017

Days Rig on Job: 7

WELL NAME & NO.: BAR LONDS FEDERAL #1-32 Field/Sands: ALCHAPITA/WASATCH

MBTD: 25'70' Perf'd Interval: 2226-38', 2310-20' Circ. Fluid: 3% KCL Density (ppg) 8.4 Visc. WTR

PRESENT OPERATION: FLOW TESTING WELL PRIOR TO PERFORATION BREAK DOWN, 65' MCF/D

OPERATIONS (Past 24 hours): PUMP TRUCK NOT AVAILABLE TILL TUESDAY MORNING.

TIME	
0600-0700	CREW TRAVEL TO LOCATION.
0700-1130	TUBING SHUT IN PRESSURE 900 PSI, BLEB OFF, RAN SWAB FLUID LEVEL @ 1300', SWAB TOTAL 23.1 BBLs LONDS WATER, IN 6 RUNS FROM SEPT NIPPLE WELL FLOWING GAS, PUT WELL ON CHOKER TEST @ 1130 HRS INITIAL RATE 23 MCF/D.
1130-1230	CREW TRAVEL TO VERNAL.
	FLOW REPORT SHEET ATTACHED
0600	10/29/90 FLOWING ON 1/8" CHOKER TUBING 300 PSI = 65' MCF/D

### INTANGIBLE COSTS

Fuel	
Rig	<u>799</u>
Circ. Fluid	
Cmt. / Acidizing	
Wireline	
Rentals	<u>30</u>
Transportation	
Supplies	
Outside Labor	
Special Services	
Phone	
Supervision	<u>475</u>
DAILY TOTAL INTANGIBLE	<u>1304</u>
CUMULATIVE INTANGIBLE FORWARD	<u>37,719</u>
CUMULATIVE INTANGIBLE TO DATE	<u>39,023</u>

### TANGIBLE COSTS

Tubular Goods	
Rods	
Well & Wellhead Equipment	
Downhole Equipment	
*CREDITS	
DAILY TOTAL TANGIBLE	
CUMULATIVE TANGIBLE FORWARD	
CUMULATIVE TANGIBLE TO DATE	<u>NONE</u>

### TOTAL COSTS

DAILY TOTAL	<u>1304</u>
CUMULATIVE FORWARD	<u>37,719</u>
TOTAL TO DATE	<u>39,023</u>

AFE/WR AMOUNT 94,100  
BALANCE 55,077

\*CREDITS:

NOTES:

SWAB REPORT  
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OPC REPRESENTATIVE EB Jurykovsky

DATE 10/28/90

WELL NAME AND NUMBER RAB LAWS & FEB. #1-32

FIELD/SANDS N. CHAPIN (2) BRANCH

TD 8585' PBD 7570'

PERF'D INTERVAL 7226'-38'  
7310'-20'

TIME	RUN NO.	FLUID LEVEL	SWABBED FROM	RECOVERY (BBL.S)		GAS RATE	REMARKS
				DIL	WATER		
0700 HRS		SHUT IN	TURBINE	PRESSURE	800	P. 21	EST. BHP @ 30.55 PSI
0715	1	1300'	2400'	-	4.5'		
0740	2	2300'	3400'	-	4.5'		
0755	3	2400'	4400'	-	7.8'		
0810	4	3200'	5000'	-	5.2'		SHOW
0840	5	4600'	5000'	-	1.		GOOD SHOW
0913	6	-	S.N. 7190'	-	1.		STRONG - Total Load Rec
0950	7	-	"	-	-		STRONG
1013	8	-	"	-	-		STEADY. Blow rate 30-40 MCF/H
1113	9	-	"	-	-		" " " " "
PUT WELL ON CHOKER				FLOW REPORT ATTACHED			
TOTAL				*****		*****	
				23.1		TOTAL LOAD WATER RECOVERED.	

FLOW REPORT

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Page 1/1  
Report Date 10/28/90

OPC REPRESENTATIVE ED. Jurekowsky  
WELL NAME AND NUMBER BABLANDS FEB. #1-32

PERF'D INTERVAL 7226'-38', 7310'-10'  
FIELD/SANDS N. CHARCOA/WASATCH  
TO 85'35" PBD 75'70"

DATE OF TEST				RECOVERY (BBL/S)				GAS RATE	REMARKS
TIME	CHOKE	FTP	CP	OIL	CUM OIL	WATER	CUM WATER		
1130 hrs	1/8"	60 PSI	0	-	-	-	-	23 MCF/D	Flow Test Prior To
1200	1/8"	110 PSI	0	-	-	-	-	38 "	PERFORATION BREAK DOWN.
1700	1/8"	190 PSI	0	-	-	-	-	60 "	
10/28/90									
0600	1/8"	200 PSI	0	-	-	-	-	65 MCF/D	GOOD ORANGE COLOR.

# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. B & B WELL SERVICE Rig No. 2

Date 10/27/90 QPC Representative: EB JURYKOVSKY WRI/AFE NO. 50017

Days Rig on Job: 6

WELL NAME & NO.: BAB BANKS FEDERAL #1-32 Field/Sands: ALCHAPITA/WASATCH

PBTD: 7578' Perf'd Interval: 7226-38', 7310-20' Circ. Fluid: 3% KCL Density (ppg) 8.4 Visc. WTR

PRESENT OPERATION: SWAB TESTING

OPERATIONS (Past 24 hours):

TIME	OPERATIONS
0700-0900	CREW TRAVEL TO LOCATION
0900-1500	RIG UP HALLIBURTON LOGGING SERVICES, RAN CBL/GR OVER SQUEEZED INTERVAL, CORRELATED WITH DENSITY NEUTRON LOGS 9/27/89. RUN #1, 7400-6800 w/ 0 PSI, RUN #2, 7400-6800 w/ 1000 PSI. HELD SAFETY MEETING WITH HALLIBURTON AND RIG CREW, PERFORATING CHECK LIST REVIEWED AND FILLED OUT. TEST LUBRICATOR TO 500 PSI - OK. PERFORATES WASATCH FORMATION FROM 7310'-20' AND 7226'-38' FBC/CNL/GR 9/27/89 = CBL/GR 10/27/90 USING 4" CASING GUN 120" PHASING 1 TSPF, 22.7 GRAM JRC CHARGES, 46" HOLES. SHOT TOTAL OF 24 HOLES. ALL SHOTS FIRED. INITIAL FLUID LEVEL AT SURFACE. AFTER PERFORATING FLUIDS STAYED AT SURFACE.
1500-1700	PU & TLH w/ PERFORATION BREAK DOWN TOOL, SET @ 7193' KB.
1700-1800	RIG UP TO SWAB, RAN 1 SWAB RUN FROM 2000' - REC. 7.5 BBLs OF LOBE WATER, LEAVING 23.1 BBLs LOBE WATER TO RECOVER. SHUT DOWN FOR DAY DUE TO RIG REPAIR.
1800-1900	CREW TRAVEL TO VERNAL

### INTANGIBLE COSTS

Fuel	_____
Rig	<u>1443</u>
Circ. Fluid	_____
Cmt. / Acidizing	_____
Wireline cal-Perf.	<u>4379</u>
Rentals	<u>30</u>
Transportation	_____
Supplies	_____
Outside Labor	_____
Special Services PKR.	<u>1150</u>
Phone Supervision	<u>475</u>
DAILY TOTAL INTANGIBLE	<u>7477</u>
CUMULATIVE INTANGIBLE FORWARD	<u>30,242</u>
CUMULATIVE INTANGIBLE TO DATE	<u>37,719</u>

### TANGIBLE COSTS

Tubular Goods	_____
Rods	_____
Well & Wellhead Equipment	_____
Downhole Equipment	_____
*CREDITS	_____
DAILY TOTAL TANGIBLE	_____
CUMULATIVE TANGIBLE FORWARD	_____
CUMULATIVE TANGIBLE TO DATE	<u>NONE</u>

### TOTAL COSTS

DAILY TOTAL	<u>7477</u>
CUMULATIVE FORWARD	<u>30,242</u>
TOTAL TO DATE	<u>37,719</u>

AFE/WR AMOUNT 94100  
BALANCE 56,381

\*CREDITS: \_\_\_\_\_

NOTES: \_\_\_\_\_







# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. B & B WELL SERVICE Rig No. 2

Date 10/24/90 QPC Representative: ED JURYKOVSKY WRI/AFE NO. 50017

Days Rig on Job: 3

WELL NAME & NO.: BADLANDS FEDERAL #1-32 Field/Sands: N. CHARLIE/WASATCH

PBTD: 7670' Perf'd Interval: 7212'-13' Circ. Fluid: 2% KCL Density (ppg) 8.4 Visc. WTR

PRESENT OPERATION: TIH TO DRILL OUT SQUEEZE PACKER.

OPERATIONS (Past 24 hours):

TIME

0700-0800	CREW TRAVEL TO LOCATION.
0800-1030	PICK UP STINGER TIH TO 7180'
1030-1330	RIG UP HALLIBURTON, TEST SURFACE LINES TO 4000 PSI, REVERSE OUT TUBING CAPACITY, STUNG INTO SQUEEZE PACKER. ESTABLISHED FEEB RATE W/ 10 BBL WATER @ 1.2 B/M @ 1150 PSI. SQUEEZES THROUGH 4 SQUEEZE HOLES @ 7212', USES 100 SXS PREMIUM AB-250 CEMENT CONTAINING .1% HR-5' AND .6% HALAS-322. MIXED AT 16.4 #/GAL. WITH A YIELD OF 1.06 CU. FT./SK. PICKED UP OUT OF PACKER SPOTTED CEMENT IN TUBING TO 6000'. STUNG BACK DOWN INTO PACKER, STARTED SQUEEZE, INITIAL RATE WITH CEMENT THROUGH PERFS, 1.5 B/M @ 900 PSI, FINAL INJECTION RATE .9 B/M @ 2250 PSI. PICKED UP OUT OF PACKER 5' AND REVERSED OUT 10 SXS CEMENT, LEAVING 5' SXS CEMENT IN 5 1/2" CSG. AND 85' SXS THROUGH PERFORATIONS.
1330-1530	TOH W/ STINGER.
1530-1700	PICKED UP 4 7/8" MILL & TIH TO 4500', SHUT DOWN FOR NIGHT.
1700-1800	CREW TRAVEL TO VERNAL.

### INTANGIBLE COSTS

Fuel	_____
Rig	<u>1321</u>
Circ. Fluid	_____
Cmt. / Acidizing	<u>3908</u>
Wireline	_____
Rentals	_____
Transportation	_____
Supplies	_____
Outside Labor	_____
Special Services - Packer	<u>1445</u>
Phone	_____
Supervision	<u>475</u>
DAILY TOTAL INTANGIBLE	<u>7149</u>
CUMULATIVE INTANGIBLE FORWARD	<u>17,698</u>
CUMULATIVE INTANGIBLE TO DATE	<u>24,847</u>

### TANGIBLE COSTS

Tubular Goods	_____
Rods	_____
Well & Wellhead Equipment	_____
Downhole Equipment	_____
*CREDITS	_____
DAILY TOTAL TANGIBLE	_____
CUMULATIVE TANGIBLE FORWARD	_____
CUMULATIVE TANGIBLE TO DATE	<u>NONE</u>

### TOTAL COSTS

DAILY TOTAL	<u>7149</u>
CUMULATIVE FORWARD	<u>17,698</u>
TOTAL TO DATE	<u>24,847</u>

AFE/WR AMOUNT 94,100  
BALANCE 69,253

\*CREDITS: \_\_\_\_\_

NOTES: \_\_\_\_\_

# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. B + B WELL SERVICE Rig No. 2

Date 10/23/90 OPC Representative: EB TURKOVSKY WRI/AFE NO. 50017

Days Rig on Job: 2

WELL NAME & NO.: BORLANDS FEDERAL #1-32 Field/Sands: N. CHADITA/WASATCH

PBTD: 7570' Perf'd Interval: 7212'-13' Circ. Fluid: 3% KCL Density (ppg) 8.4 Visc. WTR

PRESENT OPERATION: TOH TO CEMENT THROUGH SQUEEZE PACKER SET @ 7180'

OPERATIONS (Past 24 hours):

TIME	OPERATIONS
0730-0930	CREW TRAVEL TO LOCATION
0930-0930	TOH WITH 235' JTS TUBING
0930-1130	RIG UP HALLIBURTON WIRE LINE & SET CIBP @ 7605' K.B
1130-1230	RIG UP HALLIBURTON PUMP TRUCK, TEST CIBP - 5 1/2" CASING - TUBING SPOOL - BLIND RAMP TO 5000 PSI - HELD 30 MINS - OK.
1230-1400	HELD SAFETY MEETING WITH HALLIBURTON AND RIG CREW, PERFORMING CHECK LIST REVIEWS AND FILLED OUT. PERFORATES 4 SQUEEZE HOLES AT 7212', CORRELATES TO BOND LOG DATES 12/3/89 USING 4" CASING GUN 90 DEGREE PHASING 4 JSPE, 22.7 GRAM JRC CHARGES, 46" HOLES. ALL SHOTS FIRED. PRESSURE CSG. TO 200 PSI, DROPPED TO 100 PSI WHEN GUN FIRED.
1400-1700	SUMPS 5 SKS CEMENT w/ WIRE LINE BAILER FROM TOP CIBP TO 7570'
1700-1800	RETRANS SET EZ DRILL WIRE LINE SQUEEZE PACKER @ 7180'
1800-1830	TEST PACKER TO 2000 PSI - HELD 15 MINS - OK. SHUT DOWN FOR NIGHT.
1930-1930	CREW TRAVEL TO VERNAL

### INTANGIBLE COSTS

Fuel	
Rig	<u>1835</u>
Circ. Fluid 3% KCL	<u>855</u>
Omt. / Acidizing	
Wireline	<u>6508</u>
Rentals	<u>30</u>
Transportation	
Supplies	
Outside Labor	
Special Services <u>Taxing</u>	<u>1287</u>
Phone	
Supervision	<u>475</u>
DAILY TOTAL INTANGIBLE	<u>10,990</u>
CUMULATIVE INTANGIBLE FORWARD	<u>6,708</u>
CUMULATIVE INTANGIBLE TO DATE	<u>17,698</u>

### TANGIBLE COSTS

Tubular Goods	
Rods	
Well & Wellhead Equipment	
Downhole Equipment	
*CREDITS	
DAILY TOTAL TANGIBLE	
CUMULATIVE TANGIBLE FORWARD	
CUMULATIVE TANGIBLE TO DATE	<u>NONE</u>

### TOTAL COSTS

DAILY TOTAL	<u>10,990</u>
CUMULATIVE FORWARD	<u>6,708</u>
TOTAL TO DATE	<u>17,698</u>

AFE/WR AMOUNT 94,100  
BALANCE 76,402

\*CREDITS:

NOTES: #1 - RAN PERMANENT PLUG USING CIBP SET @ 7605' w/ 35' CEMENT ON TOP TO 7570' PBTD - WITNESSED BY RAY ARNOBBS w/ BLM.

# QUINTANA PETROLEUM CORPORATION

## DAILY WORKOVER REPORT

Service Co. B + B WELL SERVICE Rig No. 1

Date 10/22/90 OPC Representative: EB JURYKOVSKY WRI/AFE NO. 50017

Days Rig on Job: 1

WELL NAME & NO.: BABLANE FEDERAL #1-32 Field/Sands: N. CHAPITA / URSATEH

PBTD: 8235' Perf'd Interval: N/A Circ. Fluid: 3% KCL Density (ppg) 8.34 Visc. WTB

PRESENT OPERATION: TOH TO RUN CAST IRON BRIDGE PLUG.

OPERATIONS (Past 24 hours):

TIME

0730-0900	MOVED RIG TO LOCATION
0900-1030	SHUT IN WELL HEAD PRESSURE 2700 PSI, HOOKED UP BLEED OFF LINE AND BLEEDING PRESSURE OFF THROUGH CHOKE.
1030-1530	RIG UP RIG AND PUMPING UNIT, KILL WELL WITH 260 BBLs OF 3% KCL WATER.
1530-1700	RIG DOWN WELL HEAD, RIG UP 5000 PSI ROP.
1700-1800	LAY DOWN 27 JTS 2 3/8" TUBING, SHUT WELL IN FOR NIGHT
1800-1900	CREW TRAVEL TO VERNAL,

INTANGIBLE COSTS

Fuel	
Rig	<u>1489</u>
Circ. Fluid 3% KCL	<u>1008</u>
Cmt. / Acidizing	
Wireline	
Rentals BOP, Frac Tank	<u>140</u>
Transportation Pump Tank	<u>771</u>
Supplies	
Outside Labor	
Special Services Repair	<u>800</u>
Phone	
Supervision	<u>2500</u>
DAILY TOTAL INTANGIBLE	<u>6708</u>
CUMULATIVE INTANGIBLE FORWARD	<u>NONE</u>
CUMULATIVE INTANGIBLE TO DATE	<u>6708</u>

TANGIBLE COSTS

Tubular Goods	
Rods	
Well & Wellhead Equipment	
Downhole Equipment	
*CREDITS	
DAILY TOTAL TANGIBLE	
CUMULATIVE TANGIBLE FORWARD	
CUMULATIVE TANGIBLE TO DATE	<u>NONE</u>

TOTAL COSTS

DAILY TOTAL	<u>6708</u>
CUMULATIVE FORWARD	<u>NONE</u>
TOTAL TO DATE	<u>6708</u>

AFE/WR AMOUNT 94,100.  
BALANCE 87,392

\*CREDITS:

NOTES: #1, VERBAL APPROVAL FROM BLM - EB FOREMAN TO PERMANENT PLUGGING TO ± 7565' RB, WITH CLRP AND 35' CEMENT ON TOP. 10/19/90  
#2, NOTICE FROM HOWELL WITH DESERT POWER PLANT THAT EQUIPMENT WILL BE MOVED TO LOCATION 10/19/90

# QUINTANA PETROLEUM CORPORATION

## DRILLING RECORD

### SHEET D

#### UTAH

QUINTANA PETROLEUM CORPORATION  
BADLANDS FEDERAL #1-32  
NORTH CHAPITA FIELD  
UINTAH COUNTY, UTAH

10/22/90 SITP = 2700 PSI. MIRU. BLED PRESSURE & KILLED WELL W/  
260 BBLs 3% KCL WTR. N/U BOP'S. L/D 27 JTS 2 7/8" TBG. CIFN.

10/23/90 POH W/ 235 JTS TUBING. R/U HALCO WL. SET CIBP @ 7605'.  
TSTD CIBP & 5 1/2" CSG TO 5000 PSI. 30 MINS OK. PERF 7212' (4  
HOLES) FOR SQZ. DMPD 5 SX CMT ON CIBP. SET E-Z C/R @ 7180' TSTD  
TP 2000 PSI. OK. CIFN. WILL SQZ TOMORROW P.M.

10/24/90 PBTD: 7570' CIRC FLUID: 3% KCL DENSITY: 8.4 PPG.  
TIH W/ STINGER. SQUEEZ PERFS 7212' - 13' W/ 100 SXS. FINAL  
INJECTION RATE .9 BPM W/ 2250 PSI. REVERSED OUT 10 SXS, LEFT 5 SXS  
IN CASING & 85 SXS IN FORMATION. POOH. GIH W/ MILL TO 4500'.  
SDFN.

10/25/90 PBTD: 7570' CIRC FLUID 3% KCL DENSITY 8.4 PPG. FIN  
TIH W/ 4 5/8" MILL. TAG CMT @ 7176'. DRL CMT TO 7180'. DRL PKR  
FROM 7180-81.5'. SDFN.

10/26/90 PBTD: 7570' CIRC FLUID: 3% KCL DENSITY: 8.4 PPG  
CREW TRAVEL TO LOCATION. REPAIR PUMP. FIN DRILLING SQZ PKR TO  
7182'. DRILL CMT 7182' TO 7213', PRESSURE TEST SQZ 500 PSI/OK.  
TIH TO PBTD-7570'. CIRC BTMS UP. SET BACK POWER SWIVEL & TOH W/  
MILL, SDFN. CREW TRAVEL TO VERNAL.

10/27/90 PBTD: 7570' CIRC FLUID: 3% KCL DENSITY: 8.4 PPG  
CREW TRAVEL TO LOCATION. R/U HALLIBURTON LOGGINS SERVICES, RAN  
CBL/GR OVER SQUEEZED INTERVAL, CORRELATES W/ DENSITY NEUTRON DATED  
9/27/89. RUN #1, 7400-6800' W/O PSI, RUN #2 7400-6800' W/ 1000  
PSI. HELD SAFETY MEETING W/ HALLIBURTON & RIG CREW, PERF'ING CHECK  
LIST REVIEWED AND FILLED OUT TEST LUBRICATOR TO 500 PSI/OK. PERFED  
WASATCH FORMATION FROM 7310' - 20' AND 7226 - 38'. FDC/CNL/GR  
9/27/89=CBL/GR/10/27/90 USING 4" CSG GUN 120° PHASING 1 JSPF, 22.7  
GRAM JRC CHARGES .46" HOLES. SHOT TOTAL OF 24 HOLES. ALL SHOTS  
FIRED. INITIAL FLUID LEVEL AT SURFACE. AFTER PERF'ING FLUID  
STAYED AT SURFACE. P/U & TIH W/ PERFORATION BREAK DOWN TOOL, SET  
@ 7193' KB. R/U TO SWAB, RAN 1 SWAB RUN FROM 2000' - REC 7.5 BBLs  
OF LOAD WATER, LEAVING 23.1 BBLs LOAD WATER TO RECOVER. SDFD DUE  
TO RIG REPAIR. CREW TRAVEL TO VERNAL.

10/28/90 PBTD: 7570' CIRC FLUID: 3% KCL DENSITY: 8.4 PPG  
CREW TRAVEL TO LOCATION. SITP 800 PSI, BLED OFF, RAN SWAB FLUID  
LEVEL @ 1300', SWAB TOTAL 23.1 BBLs LOAD WATER, IN 6 RUNS FROM SEAT  
NIPPLE WELL FLOWING GAS, PUT WELL ON CHOKE TEST @ 11:30 HRS.  
INITIAL RATE 23 MCF/D. CREW TRAVEL TO VERNAL.

10/29/90 FLOWED WELL 24 HRS. W.O. EQUIPMENT TO ACID WASH  
PERFORATIONS. FLOW RATE: 65 MCF/D 75 PSI FTP ON 3/16" CHOKE.

10/30/90 WELL FLOWING ON 3/16" CHOKE. TUBING 75 PSI = 65 MCF/D. CREW TRAVEL TO LOCATION. RIG UP SMITH ENERGY PUMP TRUCK, PRESSURE TEST SURFACE LINES TO 5500 PSI & REPAIRED LEAKS-HELD OK, FILLED TUBING W/ 28.2 BBLS 3% KCL WATER. RELEASE PKR, TIH BELOW PERFORATIONS, REVERSED TUBING CAPACITY RECOVERED 2 BBLS HEAVY DIRTY FLUID OVER DISPLACED BY 40 BBLS & WTR STILL GASSY. PUMPED 30 BBLS 3% KCL WTR DOWN TUBING. SET WASH TOOL BELOW PERFORATION PRESSURE TEST TUBING & WASH TOOL TO 3000 PSI. HELD OK. UNSEAT WASH TOOL & SPOT 22 BBLS ACID TO 7070', DROPPED STANDING VALVE, TESTED TO 2500 PSI. OK MOVED WASH TOOL UP TO FIRST PERFORATION @ 7320', START PUMPING PRESSURE UP TO 2500 PSI & STARTED GETTING COMMUNICATIONS UP ANNULUS, DROPPED BACK DOWN BELOW PERFS. PRESSURE UP TO 1600 PSI, HAD COMMUNICATIONS UP ANNULUS, RESET TOOL SEVERAL TIMES W/ SAME RESULTS. PICKED UP & SET WASH TOOL ABOVE ALL PERFORATIONS @ 7190', PRESSURE UP TO 1200 PSI. HAD COMMUNICATION UP ANNULUS, WASH TOOL LEAKING. TRIP BACK IN BELOW ALL PERFORATIONS & REVERSED 22 BBLS ACID TO RESERVE P.T. RAN WIRE LINE & RETRIEVED STANDING VALVE FROM WASH TOOL. TOH, O RINGS & MANDREL WASHED OUT ON WASH TOOL. CREW TRAVEL TO VERNAL.

DC: \$ 3,838

CWC: \$43,486

10/31/90 CREW TRAVEL TO LOCATION. PICK UP WASH TOOL & TIH. RU SMITH ENERGY TEST SURFACE LINES 4000 PSI-OK, TEST WASH TOOL 3000 PSI-OK.

PUMP INTO PERFORATIONS AS FOLLOWS: USING 15% HCL ACID.

7320'-PRESSURE TO 2500 PSI, NO ENTRY.  
7319'-PRESSURE TO 2000 PSI, NO ENTRY.  
7318'-PRESSURE TO 2000 PSI, BLED OFF TO 1400 PSI IN 2 MINS,  
COMMUNICATION ANNULUS.  
7317'-PRESSURE TO 2000 PSI, BLED OFF TO 1250 PSI IN 1 MINS,  
COMMUNICATION ANNULUS.  
7316'-PRESSURE TO 2000 PSI, BLED OFF TO 1300 PSI IN 1 MINS,  
COMMUNICATION ANNULUS.

DROP DOWN BELOW PERFS @ 7335', TEST 2000 PSI TOOL LEAKING.  
@ 3730', TEST 1000 PSI COMMUNICATION UP ANNULUS.

PULL UP TO 7100' ABOVE ALL PERFS, TEST 2000 PSI, BLED OFF TO 1000 PSI IN 3/2 MIN. PRESSURE UP ANNULUS TO 2000 PSI @ 2100'-HELD OK. TRIP BACK TO 7335' TEST TO 2000 PSI-HELD OK.

RETEST @ 7316'-PRESSURE TO 1800 PSI, BLED TO 0 PSI 1 MIN COMMUNICATION UP ANNULUS.

7315'-HAD COMMUNICATION WITH OUT PUMPING.  
7314'-PRESSURE 400 PSI-HAD COMMUNICATION UP ANNULUS.  
7313'-PRESSURE 1000 PSI-BLED TO 500 PSI IN 1 MIN-COMMUNICATION UP ANNULUS.  
7312'-PUMPED 2 BBLS ACID INTO PERFORATION @ .6 B/M W/ 1460 PSI.  
7311'-PRESSURE TO 2000 PSI-NO ENTRY.

SET TOOL @ 7315', PUMP BEST OF ACID AWAY-18 BBLS @ 1 BPM W/ 2350 PSI, HELD 500 PSI ON ANNULUS.

PULLED UP TO BREAK DOWN NEXT SET OF PERFORATIONS @ 7226'-38'.

7239'-TEST WASH TOOL TO 2500 PSI-HELD OK.  
7234'-PRESSURED UP W/ 3% KCL WTR TO 2000 PSI-COMMUNICATION UP ANNULUS.  
7231'-PRESSURED UP TO 700 PSI-HAD COMMUNICATION UP ANNULUS.

10/31/90 (CONT.) SET TOOL @ 7215'-TEST TOOL TO 2000 PSI-HELD OK. PULLED STANDING VALVE W/ WIRE LINE. START SWABBING, SWAB 27 BBLs LOAD WTR IN 5 RUNS FROM 5000'. WELL STARTED TO UNLOAD ACID WATER, TURNED WELL INTO PIT, UNLOAD ACID WATER FOR 10 MINS & DIED. SWAB ADDITIONAL 8 BBLs ACID WTR W/ STRONG GAS BLOW. FLUID LEVEL @ 1000' PULL FROM 2800', ANNULUS WENT ON VACUUM-POSSIBLE PACKER LEAKING. SHUT DOWN DUE TO DARKNESS. CREW TRAVEL TO VERNAL.

DWC: \$ 7,373

CWC: \$50,858

11/1/90 PBTD: 7570' PERF'D INTERVAL: 7226'-38', 7310'-20' CIRC FLUID: 3% KCL DENSITY: 8.4 PPG VIS: WTR PRESENT OPERATION: RECOVERING ACID WATER FROM WELL. CREW TRAVEL TO LOCATION. SHUT IN TUBING @ 1800 PSI, 5 1/2" CSG 300 PSI, BLED OFF PRESSURE & KILL WELL W/ 3% KCL WATER. TRIP FOR RTTS PACKER & BRIDGE PLUG, SET BP @ 7348', SET PACKER @ 7340' TEST PACKER & TUBING TO 3000 PSI-HELD OK. SET PACKER @ 7276', INJECTION RATE .6 BPM W/ 1550 PSI, SPOT ACID TO 7026', CLOSE BYPASS PERFORATION BREAK 7310'-20' USED 724 GALS 15% HCL ACID W/ 22 BALLS. MAX RATE 2.4 B/M @ 2250 PSI, GOOD BALL ACTION-NO BALL OUT. ISIP 1820 PSI, 5 MINS 1470 PSI. STAGE #1 COMPLETED.

STAGE #2 SET BRIDGE PLUG @ 7287' TEST TO 3000 PSI-HELD OK, SET PACKER @ 7218', PERFORATION BREAK DOWN TO 7226'-38', INJECTION RATE .5 BPM @ 2200 PSI, SPOT ACID TO 7000', CLOSED BYPASS, HELD 500 PSI ON ANNULUS. USED 1076 GALS 15% HCL ACID W/ 26 BALLS, MAX RATE 2 BPM @ 2500 PSI. ISIP 2270 PSI, 5 MINS 2080 PSI. STAGE #2 COMPLETE.

MOVED BRIDGE DOWN TO 7349', SET PACKER @ 7187' & RIG UP TO SWAB. SWAB TOTAL OF 31 BBLs LOAD WTR + 5.7 BBLs ACID WTR. IN 6 RUNS, FLUID LEVEL @ 2500', PULL FROM 4300'-42.3 BBLs ACID WTR TO RECOVER. SHUT DOWN DUE TO DARKNESS-PUT WELL ON 1/4" CHOKE TO PIT W/ SMALL GAS BLOW. CREW TRAVEL TO VERNAL.

DWC: \$6679

CWC: \$57,537

11/2/90 PBTD: 7570' PERF'D INTERVAL: 7226'-38', 7310'-20' CIRC FLUID: 3% KCL DENSITY: 8.4 VIS: WTR PRESENT OPERATION: FLOW TESTING WELL @ 170 MCF/D. CREW TRAVEL TO LOCATION. CHOKE FROZE OVERNIGHT, HAD 1400 PSI SHUT IN PRESSURE ON TUBING. BLED OFF TUBING IN 15 MINS, UNLOAD STRONG STREAM ACID WATER. RAN SWAB FLUID LEVEL @ 1800', SWAB & FLOWED TOTAL OF 28.5 BBLs ACID WATER IN 6 RUNS, 13.8 BBLs ACID WATER LEFT TO RECOVER. FINAL SWAB FROM SEAT NIPPLE REC 1/2 BBL W/ STRONG GAS BLOW. PUT WELL ON FLOW TEST AT 1100 HRS AS PER FLOW REPORT. CREW TRAVEL TO VERNAL.

DWC: \$ 1,504

CWC: \$59,041

11/3/90 PBTD: 7570' PERF'D INTERVAL: 7226'-38', 7310'-20' CIRC FLUID: 3% KCL DENSITY: 8.4 PPG VIS: WTR PRESENT OPERATION: FLOW TESTING WELL. FLOWING WELL 24 HRS ON 1/2" CHOKE W/ 15 PSI TUBING PRESSURE = 170 MCF/D W/ A LIGHT WATER SPRAY. AS PER FLOW REPORT.

DWC: \$ 505

CWC: \$59,546

11/4/90 PBTD: 7570' PERF'D INTERVAL: 7226'-38', 7310'-20' CIRC FLUID: 3% KCL DENSITY: 8.4 PPG VIS: WTR PRESENT OPERATION: PREPARING TO TRIP FOR PRODUCTION STRING. FLOW TESTING WELL 24 HRS, AS PER FLOW REPORT.

DWC: \$ 505

CWC; \$60,051

11/5/90 CREW TRAVEL TO LOCATION, WELL FLOWING 1/2" CHOKE 15 PSI = 170 MCF/D. PUMPED 27 BBLs 3% KCL DOWN TUBING, UNSEAT PKR, TRIP IN LATCH BRIDGE PLUG. REVERSE CIR. GAS CUT WTR. 60 MINS, TOH. TIH W/ PRODUCTION STRING AS FOLLOWS, LAND TUBING N.U. TREE.

1	2 3/8" NOTCHED TUBING COLLAR	.40'
1 JT	2 3/8" 4.7# J-55 EUE 8RD TUBING	30.98'
1 JT	2 3/8" EUE 8RD STD API SEAT NIPPLE (1.785" ID)	1.10'
39 JTS	2 3/8" 4.7# J-55 EUE 8RD TUBING	1826.74'
171 JTS	2 3/8" 4.7# N-80 EUE 8RD TUBING	5296.46'
1 JT	BAKER BLAST JT	<u>10.00'</u>

TOTAL TUBING & EQUIPMENT	7165.68'
DISTANCE R.K.B. TO TOP OF TURNING HEAD ASSY	<u>+12.80'</u>
BOTTOM OF NOTCHED COLLAR	7178.48'
LESS EQUIPMENT BELOW SEAT NIPPLE	<u>-32.48'</u>
TOP OF SEATING NIPPLE	7146.00'

LANDED TUBING HANGER W/ 33,700#. SWAB TOTAL OF 114 BBLs OF GASSY LOAD WATER WITH 13 RUNS, FLUID LEVEL 5200', PULL FROM SEATING NIPPLE 34 BBLs LEFT TO RECOVER, PUT WELL ON 1/2" CHOKE TO PIT OVERNIGHT-WITH SLIGHT GAS BLOW. CREW TRAVEL TO VERNAL.

DWC: \$5,197  
CWC: \$65,248

11/6/90 CREW TRAVEL TO LOCATION. RIG DOWN. SERVICE RIG. SERVICE RIG. TRAVEL TO VERNAL. RIG RELEASED @ 0900 HRS 11/6/90. NIPPLE UP 5000 W.P. TEE @ FLANGE CHOKE ON WELL HEAD, LAYED FLOW LINE TO PIT, OPEN WELL TO PIT @ 1200 HRS FLOWING TO RECOVER 3% KCL WATER.

NOTE #1: WATER SAMPLE AT END OF FLOW TEST @ 0600 HRS 11/5/90, SPECIFIC GRAVITY 1.065 PH 6, CHLORIDES 50,000 PPM. 24% CONDENSATE - 76% ACID-KCL WATER.

DWC: \$ 3,828  
CWC:  
\$69,076

11/7/90 NO REPORT FOR DAY. DROP FROM REPORT UNTIL FURTHER ACTIVITY.

12/01/90 PBDT: 7570' PERFS: 7226'-38', 7310'-20'. MI AND SPOTTED FRAC TANKS AND STARTED FILLING W/ VERNAL CITY WATER. SITP 2600 PSI.

12/02/90 PBDT: 7570' PERFS: 7226'-38', 7310'-20'. N/U SURFACE LINES FOR FRAC. STARTED HEATING FRAC WATER TO 95°.

12/03/90 FRAC'D WELL PER RECOMMENDED PROCEDURE W/ 80,000 GAL GEL FLUID W/ ADDITIVE W/ 500 SCF/BBL CO2. INITIAL INJECTION RATE W/ PAD 35 BPM @ 3900 PSI. FINAL RATE W/ 8 PPG 20/40 SD 30.1 BPM @ 4100 PSI. ISIP 2770 PSI. JOB COMPLETE 1151 HRS 12/3/90. OPENED WELL TO PIT ON 1/4" CHOKE @ 1551 HRS W/ 1800 PSI. TOTAL FRAC FLUIDS TO RECOVER 2071 BBLs.

12/04/90 PBDT: 7570' PERFS: 7226'-38', 7310'-20'. SI WELL 4 HR TO REPAIR FLOWLINE. SITP 1000 PSI. FLOW BACK FRAC FLUIDS W/ GOOD GAS SHOW W/ FTP 250 PSI. SI WELL TO CHANGE CHOKES. SIP 700 PSI. OPENED WELL @ 1400 HRS ON 24/64" CHOKE.

<u>TIME</u>	<u>FTP</u>	<u>CHOKE</u>	<u>RATE</u>	<u>REMARKS</u>
1430	400	24/64	NA	FLOW BACK LOAD WTR
1630	300	24/64	NA	FLOW BACK LOAD WTR
0600	150	32/64	±1MMCF/D	LEFT WELL OPEN OVERNIGHT ON 32/64" CHOKE STILL MAKING GOOD AMT OF LOAD WATER

WILL CONTINUE TO FLOW BACK WELL TO PIT & UNLOAD FRAC FLUID.

12/05/90 PBD: 7570' PERFS: 7226'-38', 7310'-20'. FLWG BACK FRAC FLUIDS AND GAS TO PIT FOR CLEAN-UP PRIOR TO HOOKING UP WELL. FLWG WELL AS FOLLOWS:

<u>TIME</u>	<u>CHOKE</u>	<u>FTP</u>	<u>CP</u>	<u>RATE</u>	<u>REMARKS</u>
0600	32/64"	150	350	1000 MCF/D	F A I R S P R A Y F R A C F L U I D
1100	32/64"	150	350	1000 MCF/D	F A I R S P R A Y F R A C F L U I D
1200	CHG CK TO 40/64" 40/64"	95	350	1100 MCF/D	I N C R I N F L U I D R E C O V
1300	40/64"	90	340	1000 MCF/D	F L U I D R E C O V I N C R E A S I N G
1400	40/64"	85	335	750 MCF/D	F L U I D R E C O V I N C R E A S I N G
1800	40/64"	80	320	900 MCF/D	F L U I D R E C O V I N C R E A S I N G
0600	40/64"	70	270	820 MCF/D	S P R A Y F R A C F L U I D

RETURNING WELL TO PRODUCTION SUPERVISION. FINAL REPORT

~~WF~~  
WF

COMPLETION PROCEDURE

WELL NAME BADLANDS FEDERAL #1-32

DATE: April 9, 1990 PRIORITY: \_\_\_\_\_  
DISTRICT: Denver FIELD: N. Chapita Wells Prospect  
ELEVATION: 4983' GL, 4995 KB TD: 8600' PBD: 8235'  
CASING SIZE & SETTING DEPTH: 5½" 17# & 20# N-80 set at 8297'  
PROPOSED PERFS: 7226'-38'; 7310'-20'  
PRODUCING FORMATION: Wasatch  
BOTTOM HOLE PRESSURE DATA: N/A  
PACKER/ANCHOR: SN at 8093'  
TUBING SIZE & DEPTH: 2-3/8" 4.7# J-55 EUE 8rd set at 8125'  
RODS: \_\_\_\_\_  
LAST PRODUCTION TEST: Date: N/A BOPD: \_\_\_\_\_  
MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_ CHOKE: \_\_\_\_\_  
REASON FOR WORKOVER: \_\_\_\_\_

PREPARED BY: \_\_\_\_\_  
RESERVOIR DEPT: \_\_\_\_\_  
PRODUCTION DEPT: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_

PROCEDURE

- ( 1 ) MIRU well service unit.
- ( 2 ) Blow down well, kill with 2% KCl.
- ( 3 ) ND tree and NU 5M BOPE.
- ( 4 ) POOH with tubing and tailpipe assembly.
- ( 5 ) RU wireline services, RIH and set CIBP at ± 7600'. Remove bullplug on tubing head. Install 2-1/16" 5M casing valve. Test CIBP and casing valves to 5000 psi.
- ( 6 ) Dump bail 1 sk cement on BP.

- ( 7) Perforate 4 holes at 7212' for squeeze. TIH with RTTS to  $\pm$  7192'.
- ( 8) Squeeze using 100 sx cement per recommendation (low pressure).
- ( 9) PU bit, scraper and DC's. TIH and drill out squeezed interval. Test squeeze perfs to recommended pressure based on cement squeeze breakdown. POOH.
- (10) Run CBL/GR over squeezed interval (1 run at 0#; 1 run at 1000#). Telecopy logs to Houston office for evaluation. Proceed as directed.
- (11) Perforate for production 7226'-38', 11 holes .375" diameter, 7310'-20', 9 holes .375" diameter.
- (12) RIH with tubing and perforation wash tool. Wash perforations at one foot intervals using recommended acid volume.
- (13) Swab test and evaluate. If well swabs water, drop down hole to swab test lower perfs independently. Squeeze off lower perfs, etc., if required. If well swabs  $\pm$  100 MCF/D gas, proceed with frac procedure.
- (14) POOH with tubing and wash tool.
- (15) TIH with production tubing with blast joint installed at the surface. Set BPV. N/D BOPE. NU tree. Release rig.
- (16) RU and frac per recommendation. R/D and release frac equipment.
- (17) Flow back and clean up well. Test per Production Department instructions.
- (18) RDMO workover rig.

QPC  
Badlands Federal \*1-32

1-1-90

<u>2 3/8" Production Tubing String:</u>	
1- 2 3/8" Notched Tubing Collar.	.40'
1st. - 2 3/8", 4.7", J-55, EUE, 8th Tubing.	30.98'
1- 2 3/8", EUE, 8th, std. API, Seating Nipple (1.785" ID)	1.10'
59 ft. - 2 3/8", 4.7", J-55, EUE, 8th Tubing.	1826.74'
202 ft. - 2 3/8", 4.7", N-80, EUE, 8th Tubing.	<u>6253.43'</u>
Total Tubing * Equipment	8112.65'
Distance RKB to Top of Tubinghead Assembly.	+ 12.80'
Bottom of Notched Collar	<u>8125.45</u>
Less Notched Collar, 1st. Tubing, * Seating Nipple	- 32.48
Top of Seating Nipple	<u>8092.97</u>

DAILY TOTAL TANGIBLE	<u>6578</u>
CUMULATIVE TANGIBLE FORWARD	<u>528,188</u>
CUMULATIVE TANGIBLE TO DATE	<u>534,766</u>

DAILY TOTAL TANGIBLE	<u>0</u>
CUMULATIVE TANGIBLE FORWARD	<u>123,777</u>
CUMULATIVE TANGIBLE TO DATE	<u>123,777</u>

<u>TOTAL COSTS</u>	
DAILY TOTAL	<u>6578</u>
CUMULATIVE FORWARD	<u>651,965</u>
TOTAL TO DATE	<u>658,543</u>

EDITS: \_\_\_\_\_  
 RES: 9.19 bbls. - Daily Recovery  
1636.35 bbls - 74TR

AFE/WR AMOUNT 631,500  
 BALANCE 27,043

5 1/2" CASING DETAIL

{ PAGE 1 }

1 - 5 1/2"	BAKER GUIDE SHOE		1.10
1 JT 5 1/2"	17# K <sub>5</sub> 8RB LT+C R-3 CASING		42.60
1 - 5 1/2"	BAKER SELF FILL FLOAT COLLAR		1.90
80 JTs 5 1/2"	20# N-80 8RB LT+C R-3 CASING		3149.12
1 - 5 1/2"	BAKER TYPE J.B STAGE TOOL		1.68
23 JTs 5 1/2"	20# N-80 8RB LT+C R-3 CASING		759.95
28 JTs 5 1/2"	17# N-80 8RB LT+C R-3 CASING	4339 →	1182.33
1 - 5 1/2"	BAKER TYPE J STAGE TOOL		1.70
74 JTs 5 1/2"	17# N-80 8RB LT+C R-3 CASING		3122.53
1 JT 5 1/2"	20# N-80 8RB LT+C R-3 CASING		38.89
TOTAL CASING RUN			8301.80
CASING CUT OFF			- 19.80
CASING IN HOLE			8282.00
DISTANCE RKB TO CASING HEAD FLANGE			+ 14.80
CASING SET AT			8296.80

CEMENT STAGE #1 - 8296'-6046' WITH WESTERN USING 20 BALS MUB FLUSH FOLLOWED BY 385 SXS OF 50/50 POZ. CONTAINING 2% GEL, 10% SALT, .7% CF-14. MIXED AT 14.4 #/GAL WITH A YIELD OF 1.28 CU. FT./SX. TOTAL SLURRY VOLUME 490 CU. FT. 15% (EXCESS) DISPLACES CEMENT WITH FRESH WATER. PLUG DOWN AT 0945 HRS. 9/30/89 WITH 1900 PSI. RELEASED PRESSURE AND FLOAT VALUE HELD OK.

NOTE: PUMPED LAST 30 BALS OF CEMENT SLURRY WITH NO MUB RETURNS. PRIOR PUMPING RATE 500 PSI AT 6 B/M. MAX 3400 PSI. AT 1.3 B/M, Bump PLUG WITH 1900 PSI AT 3.3 B/M.

QUINTANA PETROLEUM CORPORATION

AFE #39303  
SHEET A

DRILLING RECORD

PAGE NO. 1

LEASE BADLANDS FEDERAL WELL NO. #1-32  
 FIELD Wildcat  
 LOCATION 613' FSL & 704' FEL (SE SE)  
Section 32, T8S-R24E  
Uintah County, Utah

SPUD DATE 8/29/89 COMP DATE 1/4/90  
 CONTRACTOR Olsen Drilling RIG NO. #2  
 TYPE UNIT Rotary  
 DRILL PIPE DESCRIPTION 4 1/2" "E", 16.6# with  
4 1/2" XH tool joints

PERMIT NO. --- APINO. 43-047-31869  
 T.D. 8600' T.V.D. ---  
 DEVIATION (B.H.L.) Not directionally drilled  
 COMPANY ENGINEER E. Jurykovsky - Consultant

ELEVATIONS: GROUND 4983'  
 CASING HEAD 4983'  
 TUBING HEAD 4985'  
 ROTARY DRIVE BUSHING 4997.8'  
 APPROVED \_\_\_\_\_

DATE	In DEPTH	BIT NO.	SIZE	MAKE	TYPE	JET SIZE	DEPTH OUT	FEET	HOURS	COND. T./B./G.	FT./HR.	DEPTH & DEVIATION	
												VERTICAL	DIRECTIONAL
1989													
8/29	0	1A	12 1/4	Smith	SDS	3-12	47'	47	1 3/4		26.8	---	
9/2	47	2A	12 1/4	Smith	SDS	3-15	267'	267	10 3/4		20.4	1/2° @100'	
												3/4° @200'	
												1/2° @267'	
9/4	267	1	7 7/8	Smith	F-25	3-13	5125'	4857	110 1/4		44	1/2° @784'	
												2° @1320', 1997'	
												1 1/2° @1406', 1540'	
												1 3/4° @1747'	
												2° @2100'	
												3/4° @2225'	
												1° @2308'	
												1 1/2° @2554', 2840'	
												1 1/2° @3106', 3596'	
												1 1/2° @3350', 3998'	
												1 1/2° @3814'	
												1° @4246', 4796'	
												3/4° @4496'	
												1 1/2° @5124'	
9/10	5125	2	7 7/8	Reed	HP53A	3-14	6884'	1759	109 3/4		16	1° @5950', 6862'	
9/17	6884	3	7 7/8	Smith	F-3-H	3-15	7596'	712	75 1/2		9	---	
9/24	7596	4	7 7/8	Reed	HP53A	3-15	8600'	1004	75 1/2		13.3	1° @8600'	





## QUINTANA PETROLEUM CORPORATION

SHEET D

## DRILLING RECORD

PAGE NO. 1

AFE #39303

LEASE Badlands Federal WELL NO. 1-32 FIELD N. Chapita Wells Prospect

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
		Location: SE SE Section 32, T8S-R23E Uintah County, Utah
8/29/89		MIRU Olsen Drilling Company Rig #2. Expect to spud this P.M.
8/30/89	47'	Day 1. Drld 47', rig repair, sd and clay, MW wtr. RU rotary tools. SPUD at 1445 hrs 8/29/89. Drld to 47', POOH. LD swivel and kelly, LD derrick. Wait on daylight to unpin derrick legs to ship to Casper to have straightened. DC: \$15,456 CTD: \$15,456
8/31/89	47'	Day 2. Drld 0', rig repair. Remove derrick section and send to Casper for repair, expect to resume drlg late 8/31/89. DC: \$12,057 CTD: \$27,513
9/1/89	47'	Day 3. Drld 0', rig repair. RR - derrick, expect to resume drlg late this P.M. DC: \$89 CTD: \$27,602
9/2/89	103'	Day 4. Drld 56', rig repair, surf fm, MW wtr. Wait on repaired derrick section, install same. Drld mouse and rat holes, drld to 103', RR - wtr pump. DC: \$1348 CTD: \$28,950
9/3/89	267'	Day 5. Drld 164', welding on csghead, sh and sd, MW wtr. Surveys: 1/4° at 100', 3/4° at 200' and 1/2° at 267'. Drld to 267', POOH, LD 8" DC's. Run 7 jts 8 5/8" csg, set at 267'. Cmt w/Dowell using 179 sx Class "B" cmt containing 2% CaCl2 mixed at 15.6 ppg w/1.18 yield. Total slurry volume 211 cu ft, 100% excess. Displaced cmt w/FW. PD at 1945 hrs 9/2/89 w/600 psi. Release press and float held OK. Had 50 cu ft of good cmt returns (57% excess). Cmt did not fall. WOC, cut off csg and install csghead. DC: \$5380 CTD: \$34,330
9/4/89	267'	Day 6. Drld 0', TIH w/bit. Fin welding on csghead and test, NU BOP stack and test. PU BHA and TIH w/bit to drl out. DC: \$509 CTD: \$34,839
9/5/89	1370'	Day 7. Drld 1103', drlg, sh and sd, MW wtr. Surveys: 1/2° at 784', 2° at 1320'. Drld to 1370', NDA. DC: \$16,707 CTD: \$51,546
9/6/89	2250'	Day 8. Drld 880', drlg, lime fm, MW wtr. Surveys: 1 1/2° at 1406' and 1540', 1 3/4° at 1747', 2° at 1997' and 1° at 2100'. Drld to 2250', NDA. DC: \$13,229 CTD: \$64,775
9/7/89	2910'	Day 9. Drld 660', rig repair, lm and dolo, MW wtr. Surveys: 3/4° at 2225', 1° at 2308', 1 1/2° at 2554' and 2840'. Drld to 2910', RR - change out torque converter on #1 engine. DC: \$9283 CTD: \$74,058
9/8/89	3853'	Day 10. Drld 943', drlg, lm and dolo, MW wtr. Surveys: 1 1/2° at 3106', 1 1/2° at 3350' and 1 1/4° at 3596'. RR - torque converter, drld to 3853', NDA. DC: \$30,152 CTD: \$104,210 Sample top: Green River "X" at 3540'
9/9/89	4790'	Day 11. Drld 937', drlg, sh, lm and dolo, MW wtr. Surveys: 1 1/4° at 3814', 1 1/2° at 3998', 1° at 4246', 3/4° at 4496' and 1° at 4746'. Drld to 4790', NDA. DC: \$19,916 CTD: \$124,126
9/10/89	5216'	Day 12. Drld 426', drlg, sh and sd, MW 8.4, vis 30. Survey: 1 1/2° at 5124'. Drld to 5045', circ samples, drld to 5125', TFNB, drld to 5216', losing 20 bbls mud per hour. DC: \$10,625 CTD: \$134,751 Sample top: Wasatch at 5080'.
9/11/89	5425'	Day 13. Drld 209', drlg, shale, MW 8.5, vis 35, WL 16.6. Drld to 5242', RR - automatic driller and swivel. Losing mud at 35-71 BPH. Mix and pump 250 bbl 15#/bbl LCM pill. Install rotating head, circ out, wash and ream to btm. Drld to 5425', NDA. DC: \$10,442 CTD: \$145,196
9/12/89	5864'	Day 14. Drld 439', spotting LCM pill, sh and sd, MW 8.5, vis 30. Drld to 5864', pull 20 stds, hole tight at 5360'. Pump out 2 singles, circ hole at 5900'. Check mud loss at 78 BPH, spot 240 bbl of 20 PPB LCM pill 4900'-2500'. Pull to 2900', jets plugged. Broke circ at 2900', circ hole. Now checking fluid loss rate, mixing LCM pill. DC: \$14,183 CTD: \$159,376

## QUINTANA PETROLEUM CORPORATION

## DRILLING RECORD

SHEET D

PAGE NO. 2

AFE #39303

LEASE Badlands Federal WELL NO. 1-32 FIELD N. Chapita Wells Prospect

DATE	E.T.D.	DETAILS OF OPERATIONS. DESCRIPTIONS & RESULTS
9/13/89	5864'	Day 15. Drld 0', W&R to btm at 5744', MW 8.5, vis 55, WL 13.4. Mixed and pmpd 240-bbl 22 PPB LCM pill at 2900', circ improved from 45% to 72% returns, after 30 mins annulus full. Mixed and pmpd LCM pill #3 consisting of 240 bbls of 22 PPB LCM, circ improved to 95% returns. Mixed and pmpd pill #4 consisting of 240 bbls of 22 PPB LCM, circ hole w/100% returns. TIH to 5144', W&R to btm (5864'). Mud loss during reaming 9 to 65 BPH. NDA w/9 BPH mud loss and improving. DC: \$11,280 CTD: \$170,656
9/14/89	6195'	Day 16. Drld 331', drlg, silt, sh and sd, MW 8.8, vis 45, WL 12.4. Survey: 1° at 5950'. W&R to btm, drld to 6195' w/mud loss at 6 BPH avg. DC: \$14,241 CTD: \$184,897
9/15/89	6502'	Day 17. Drld 307', drlg, sh, silt and sd, MW 8.8, vis 42, WL 12. Drld to 6502', NDA. DC: \$8367 CTD: \$193,264
9/16/89	6800'	Day 18. Drld 298', drlg, sh, ss, lmst, MW 8.7, vis 46, WL 12.2. Drld to 6800', NDA. DC: \$7694 CTD: \$200,958
9/17/89	6884'	Day 19. Drld 84', mixing LCM pill, sh, ss, lmst, MW 8.7, vis 46, WL 12. Survey: 1° at 6862'. Drld to 6834', mud loss incr to a max of ±42 BPH. Circ and build mud vol, dlrd to 6884', TFNB. Stop at 2000' while TIH. Mix and pump 240-bbl 22 PPB LCM pill, attempt to sqz into formation. Still losing mud at ±28 BPH, now building mud volume. DC: \$7243 CTD: \$208,251
9/18/89	6884'	Day 20. Drld 0', circ, MW 8.6, vis 51, WL 11.8. Mixed and spotted 200-bbl 27 PPB LCM pill containing 25% cedar, 50% hulls, and 25% nutplug 2000'-200'. Had 85% returns, circ hole 70 mins w/120 BPH avg mud loss. Mixed and spotted 200-bbl 30 PPB LCM pill containing 33 1/3% hulls, 33 1/3% cedar and 33 1/3% multiseed 3000'-1200'. Final loss rate 4½ BPH. Hole full when not circ. TIH, W&R 6620'-6800'. Rig repair - torque converter. POOH to 4940', circ w/9 BPH loss while waiting on RR. DC: \$7717 CTD: \$215,968
9/19/89	6884'	Day 21. Drld 0', circ at 4940', MW 8.6, vis 46, WL 11.8. Down 24 hrs for rig repair - torque converter. Expect to be back to drlg today. DC: \$4367 CTD: \$220,335
9/20/89	7010'	Day 22. Drld 126', drlg, sh and silt, MW 8.7, vis 44, WL 120. RR - torque converter. TIH, drld to 7010', NDA. DC: \$7452 CTD: \$227,787
9/21/89	7190'	Day 23. Drld 180', drlg, sh, silt and sd, MW 8.7, vis 39, WL 18. Drld to 7190', lost 450 BM in 24 hrs. Losses now at 8 BPH. NDA. DC: \$8230 CTD: \$236,017
9/22/89	7435'	Day 24. Drld 245', drlg, sh, sd and silt, MW 8.8, vis 38, WL 17.6. Drld to 7435'. Gas shows at 7242' and 7327', NDA. DC: \$13,353 CTD: \$249,370
9/23/89	7596'	Day 25. Drld 161', POOH w/#1 engine while WO repairs #2 engine, spotting LCM pill at 2900', MW 8.5, vis 54, WL 16.4. Drld to 7596', RR - #2 engine radiator, POOH to 2900', mix LCM pill. DC: \$8038 CTD: \$257,408
9/24/89	7720'	Day 26. Drld 124', drlg, sh, sd and silt, MW 8.5+, vis 49, WL 24.4. Mixed and pumped 200-bbl 24 PPB LCM pill at 2900', nin TFNB, dlrd to 7720', NDA. DC: \$5503 CTD: \$262,911
9/25/89	8020'	Day 27. Drld 300', drlg, sh and sd, MW 8.5, vis 51, WL 28.8. Drld to 8020', repair mudline, NDA. DC: \$8432 CTD: \$271,343
9/26/89	8322'	Day 28. Drld 302', drlg, sh, sd, silt, MW 8.9, vis 53, WL 18. Drld to 8255', RR-rotary, drld to 8322', NDA. DC: \$10,118 CTD: \$281,461
9/27/89	8600'	Day 29. Drld 278', circ prio to wiper trip for logs, sh, sd, silt, MW 8.9+, vis 52, WL 14.8. Drld to 8600', circ & cond mud. DC: \$8,802 CTD: \$290,263

## QUINTANA PETROLEUM CORPORATION

SHEET D

## DRILLING RECORD

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AFE #39303

LEASE Badlands Federal

WELL NO. 1-32 FIELD N. Chapita Wells Prospect

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
9/28/89	8600'	Day 30. Drld 0', logging, MW 8.9+, vis 49, WL 12.8. Survey: 1° at 8600'. Circ & cond mud; made 20 std ST, circ & cond mud, ru loggers & logging. DC: \$3,751 CTD: \$294,014
9/29/89	TD 8600'	Day 31. Drld 0', circ at 8500', RU to LD DP. Fin logging, ran FDC/CNL/ GR, CAL, DIL/SFL, Microlog from TD to BSC, Sonic from 8580' to BSC and Micro from 6010' to BSC. TIH w/bit, circ and cond mud to LD DP.
9/30/89	"	Day 32. Circ and cond mud, unload and strap csg, LD DP and DC's. RU and run 5½" csg, set at 8397'. Cmtd stage #1 from 8295'-6045' w/Western using 20 bbls mud flush followed by 385 sx 50/50 Poz containing 2% gel, 10% salt, .7% CF-14 mixed at 14.4 ppg with a yield of 1.28 cu ft/sk. Total slurry volume 490 cu ft (15% excess). Displaced cmt w/FW. PD at 0945 hrs 9/30/89 w/1900 psi. Released press and float valve held ok. NOTE: Pumped last 30 bbls cmt slurry with no mud returns. Prior pumping rate 500 psi at 6 BPM. Max psi at 1.3 BPM, bump plug w/1900 psi at 3.3 BPM. Cement Stage #2 from 5100'-4500' using 20 bbls mud flush followed by 190 sx 50/50 Poz containing 2% gel, 5% salt, .5% CF-14 mixed at 14.24 ppg with a yield of 1.27 cu ft/sk. Total slurry volume 240 cu ft (20% excess). Displaced cmt w/FW. PD at 1445 hrs 9/30/89 w/1500 psi. Released press and float valve held ok. Cement State #3 from 3156'-906' using 20 bbls mud flush, followed by 565 sx Pacesetter Lite containing 6% gel, 10% Thixad mixed at 13.26 ppg with a yield of 1.77 cu ft/sk. Followed by 50 sx Class G containing 3% salt mixed at 15.8 ppg with a yeild of 1.15 cu ft/sk. Total slurry volume 1050 cu ft (50% excess). Displaced cmt w/FW. PD at 2045 hrs 9/30/89 w/1500 psi. Released press and float valve held ok. DC: \$97,035 CTD: \$412,366
10/1/89	"	Day 33. ND BOPE, set slips and tbg head and test. Rig released at 0315 hrs 10/1/89. Now waiting on completion. DC: \$40,101 CTD: \$452,467
		<u>COMPLETION</u>
11/30/89	PBTD 8251'	MI and unload 2 3/8" tbg, BOPE and set deadmen. Will MIRU Pennant Well Service today. Rig delayed 1 day on previous job. DC: \$24,706 CTD: \$477,843
12/1/89	"	Day 1. MIRU Pennant Well Service Rig #12. MU and install BOPs. TIH w/mill, 6 - 3" DCs and 93 jts 2 3/8" tbg. Tagged TOC at 3074'. RU pump, tank and swivel. SDFN. DC: \$2470 CTD: \$480,313
12/2/89	"	Day 2. RU and drill cmt and DV tool at 3156', press test csg to 4800#, held ok. TIH to 5090' and drill cmt and DV #2 at 5100'. Press test csg to 4800#, held ok. SDFN. DC: \$3729 CTD: \$484,042
12/3/89	"	Day 3. TIH to OBTD and 8245', TOOH and PU 5½" csg scraper, TIH to PBTD. RU and circ w/2% KCl wtr. SDFN. DC: \$2907 CTD: \$486,949
12/4/89	"	Day 4. Fin circ hole. TOOH w/tbg and LD 5½" csg scraper and 6 - 3 1/8" DCs. Press test BOP and csg to 4800#, held ok. RU loggers and run Acoustic CBL from 8235'-1136'. TOC at 1234'. Good bond in Mesa Verde. SDFN. DC: \$2570 CTD: \$489,519
12/5/89	"	Day 5. RU and perf L. Mesa Verde as follows: 8128', 8130', 8132', 8134', 8136', 8138', 8139, 8140', 8141', 8142', 8143', 8144', 8145', 8146', total 14 holes (.38"); 7930', 7932', 7934', 7935', 7936', 7938', total 6holes (.38"). No show of gas. RD perforators, PU Baker SAP tool, TIH. Attempt to break down lower perfs. Press up to 4000#, unable to pump in. Attempt to fish standing valve, overshot was paraffined up. Plan to circ hot wtr. SDFN. DC: \$9972 CTD: \$499,491
12/6/89	"	Day 6. Circ tbg w/hot wtr and fished standing valve. Broke down lower perfs w/15% HCl, avg breakdown press 1800# PI, 1-2 bbls/perf. Obtained SI press. Unset SAP tool, pump 30 BW to clean acid in annulus. RU and swab load bakc. Rec 19 bblf of load and acid wtr. SDFN. DC: \$7341 CTD: \$506,832

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LEASE Badlands Federal WELL NO. 1-32 FIELD N. Chapita Wells Prospect

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
12/7/89	PBTD 8235'	Day 7. SICP 0#, CITP 1200#, FL at 2300'. Made 1 run from 4000', rec 5 BF, gas cut. Release pkr, pump 60 BF down annulus and kill well. Reset pkr at 8101'. Pump 10 BF at 3 BPM 2900#, ISIP 1700#. Bled down, reset pkr at 7950', spot 500 gal 15% HCl in annulus. Broke down upper perfs 2/3000#. Reverse out 12 bbls acid. Pump 13 BW down annulus, 2.6 BPM at 3100#, ISIP 2900#. Bled down well, TOOH and LD SAP tool. DC: \$7158 CTD: \$513,990
12/8/89	"	Day 8. SICP 1000#+ (gauge failed). Blew well down and retorque BOPE. TIH w/RBP and pkr and prep to acidize. DC: \$1773 CTD: \$515,763
12/9/89	"	Day 9. Blew down well, RU and acidize Upper and Lower Mesa Verde perfs. Acidized 8128-46' w/1000 gal 15% HCl, ATR 5 BPM, ATP 4800#, ISIP 1900#, 15 min 1500#. Blew well down, set RBP at 8020', reset pkr at 7819'. Acidize 7930-38' w/500 gals HCl, ATR 2.4 BPM, ATP 2400#, ISIP 2900#, 15 min SI 1950#. Unset pkr, latch on RBP and reset at 8198', reset pkr at 7819'. RU and swab in well. Made 10 runs, rec 53 BL. SDFN. DC: \$4786 CTD: \$520,549
12/10/89	"	Day 10. SITP 1900#, SICP 250#. Bled well down, TIH and retrieved BP. TOOH and LD pkr and RBP. RU and frac well as follows: 105,700# 20-40 sand, ATR 24.5 BPM, ATP 3000#, ISIP 4000#, 9 min SI 3200#. TLTR 1166 BF. (Note: Job was tagged w/dual isotopes.) RD frac crew and RU wireline, RIH w/gauge ring to 7827' and tagged sand. SDFN. DC: \$35,243 CTD: \$555,792
12/11/89	"	Day 11. SICP 1600#. Flow back well, rec 57.75 BL in 3 hrs. TIH w/notched collar on tbg while well flowing at 14 BPH. Hit sand bridge at 2852' and wash through. TIH to top of sd at 7950' and clean out sand to 8235'. Start TOOH, well starting to make gas. SDFN. DC: \$2306 CTD: \$558,098
12/12/89	"	Day 12. Blew well down and kill w/8 bbl brine wtr. Fin POOH w/tbg and LD notched collar. Ran gauge ring to 8000' on wireline. Set RBP at 7972'. PU pkr, TIH and set at 7962'. Press test RBP to 4000#, held ok. Pull 5 jts tbg and SDFN. DC: \$6774 CTD: \$564,872
12/13/89	"	Day 13. Blew down well, TOOH w/tbg and pkr. RU Western, perform injection test: 10 BPM, TP 4200#, ISIP 3200#, calc 4 perfs open. RU and perforate 7930-38' w/9 holes using csg gun. RD and SDFN. DC: \$8724 CTD: \$573,596
12/14/89	"	Day 14. RU and frac using 15,800# 20-40 sd. Well screened out when 4 ppg sd hit perfs. Left 23,700# sd in csg. MTP 4950#, ATR 13 BPM, TLTR 602 bbls. ISIP 4800#, 15 min 2750#. RD frac equip, SWI for gel to break. SDFN. DC: \$15,212 CTD: \$588,808
12/15/89	"	Day 15. Open well and flow, rec 16 bbls frac wtr in 1 hr. TIH w/tbg and notch collar. Tagged sand bridge at 5613', circ out sd bridge. TIH to 7922', unable to get below 7922', pulling tight, circ hole clean. Pull 2 stds tbg. SDFN. DC: \$2013 CTD: \$590,821
12/16/89	"	Day 16. Blew down well. POOH w/tbg. TIH, circ out frac sand from 7230'-7735'. Pull 12 stds of tbg. SDFN. DC: \$2730 CTD: \$593,551
12/17/89	"	Day 17. Blew down well. Trip back to btm at 7735' and circ out sand to 7960'. Circ hole clean, POOH w/tbg and LD notched collar. SDFN. DC: \$1998 CTD: \$595,549
12/18/89	"	Day 18. RU and perforate 7834-40' (6'), 7 holes, 7758-7761' (3'), 2 spf, 6 holes w/3 3/8" gun. RD perforators, TIH w/RBP and pkr. Set RBP at 7890' and test to 3500#, held ok. Pull 3 jts tbg and hang off at 7776'. SDFN. DC: \$3592 CTD: \$599,141
12/19/89	"	Day 19. SITP 0, SICP 0. Set pkr at 7862', break down perfs from 7834-40' w/600 gal 15% HCl, dropped 11 ball sealers and balled off. ATR 1.5 BPM, TP 5500#, ISIP 3400#, 15 min 1400#. Bled well down, unset pkr and latched onto RBP. Set RBP at 7796' and pkr at 7705'. Tested RBP to 5000#. Break down perfs at 7758-61' w/585 gal 15% HCl and dropped balls. Balled out. ATR 3.0 BPM, TP 5600#, ISI 3/4 3400#, 10 min 1350#. Bled well down and unset pkr Cont'd next page.

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LEASE Badlands Federal WELL NO. 1-32 FIELD N. Chapita Wells Prospect

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS
12/19/89	continued	Latch onto RBP. Set RBP at 7880' and test to 5000#. Reset pkr at 7705'. RU to swab, swbd 42.30 BLW in 8 runs, last 3 runs gassy, TLTR 6.70 bbls. SDFN. DC: \$8188 CTD: \$607,329
12/20/89	PBTD 8235'	Day 20. Blew well down, release pkr and POOH. RU and frac well. Pumped 890 BF and 68,000# 20/40 sand at 30 BPM. MTP 4400#, ATP 3700#, ISIP 2410#, 15 min 2230#. RD frac crew. SIW for gel to break and frac to heal. SDFN. DC: \$25,804 CTD: \$633,133
12/21/89	"	Day 21. SICP 1900#. Open well and flow on 20/64" choke, flowed 212 bbls in 2 hrs. TIH w/retrieving tool, wash frac sand from 7840-7880'. Circ hole clean, release RBP and start out of hole. Pull to 4464' and set RBP. SDFN. Note: well was flowing at approx 30 bb;s/hr during tripping. DC: \$4221 CTD: \$637,354
12/22/89	"	Day 22. TIH, latch onto RBP and released, well started flowing. POOH and LD RBP. Well flowing approx 20 BPH. TIH w/retrieving tool to 7960' and circ sand to 7972', circ hole clean and released RBP. TOOH w/RBP, well flowing at approx 25 BPH. LD BP and SDFN. DC: \$2711 CTD: \$640,065
12/23/89	"	Day 23. SICP 420#. Blew well down. TIH w/SN and notched collar tool to 8150', circ hole clean from 8150' to 8235'. LD 17 jts tbg and land string at 7724', ND BOP and NU wellhead. RU to flow back. Clean up location and open well to frac tank at 1630 hrs 12/22/89 on 16/64" choke. SDFN. DC: \$5439 CTD: \$645,504
12/24/89	"	Day 24. Well flowing for clean up on 16/64" choke, FTP 140#, CP 1100#, flowing by heads w/show of gas, open to 20/64" choke, rec 180 BF, 2074 BLTR. DC: \$118 CTD: \$645,622
12/25/89	"	Day 25. Well flowing for clean up on 20/64" choke, 120# FTP, CP 540#. Very gassy w/traces of condensate, no sign of sand. Flowed 26 hrs, rec 188 BF, 1886 BLTR. DC: \$118 CTD: \$645,740
12/26/89	"	Day 26. Flow well for clean up on 20/64", FTP 140#, CP 440#, rec 80 BF, 1806 BLTR. DC: \$185 CTD: \$645,925
12/27/89	"	Day 27. Flow well for clean up 23 hrs on 25/64" choke, FTP 0#, CP 400#. Flowing by heads, 1763 BLTR. DC: \$118 CTD: \$646,670
12/28/89	"	Day 28. Flow well for clean up 24 hrs on 25/64" choke, FTP 0#, CP 300#. Flowing by heads, rec 40 BF, 1723 BLTR. DC: \$118 CTD: \$646,788
12/29/89	"	Day 29. Flow well. RU to swab, made 3 swab runs, rec 20 BF. Well kicked off flowing, flowed for 2 hrs, rec 46.74 BF. Made 2 addn'l swab runs, rec 3.34 BF. Well flowing on 25/64" choke. Left flowing overnite, 1696 BLTR. DC: \$1629 CTD: \$648,299
12/30/89	"	Day 30. Well flowing 15 hrs overnite on 25/64" choke, 0# FTP, 500# CP, rec 10.01 BF. Blew well down, install BOPE. PU 17 jts tbg, tagged PBTD at 8232' (3' fill). LD 17 jts tbg, ND BOP, NU tree. Swab well, made 6 runs, rec 11.69 BF, 1674 BLTR. SDFN. DC: \$1808 CTD: \$650,107
12/31/89	"	Day 31. 14-hr SITP 625#, SCIP 800#. Open well on full choke, TP bled down to 0# in 35 min, no fluid rec. RU and swab, made 8 runs, rec 15 BF, gas blows approx 20 min between runs. 1646 BLTR. SDFN. DC: \$1858 CTD: \$651,965
1/1/90	"	Day 32. 14-hr SITP 840, SICP 720. Blew down well. RU HLS and ran tracer-scan survey. RD HLS and lower tbg by 13 jts, tbg at 8093'. RU and swab, made 2 runs, rec 9 BF. Left well flowing overnight on 20/64" choke. DC: \$6578 CTD: \$658,543
1/2/90	"	Day 33. 14-hr FTP 0, CP 630, no fluid recovery. RU and swab, made 6 runs, rec 24 BF, well very gassy. Well flowing on 16/64" choke, 1605 BLTR. DC: \$1208 CTD: \$659,751
1/3/90	"	Day 34. 14-hr FTP 0, SICP 750. RU and swab, made 11 runs, rec 21 BF. Well very gassy, some show of sd on cups. 1577 BLTR. DC: \$2586 CTD \$662,337

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AFE #39303

LEASE Badlands Federal

WELL NO. 1-32 FIELD N. Chapita Wells Prospect

DATE	E.T.D.	DETAILS OF OPERATIONS, DESCRIPTIONS & RESULTS																																													
1/4/90	PBTB 8235'	<p>Day 35. 15-hr FTP 0, SICP 700, 16/64" choke. RU and swab, made 6 runs, rec 14 BF, very gassy. Well flowing intermittantly. RD service unit and MO. 1557 BLTR. Will temporarily suspend reporting. DC: \$2301 CTD: \$664,638</p>																																													
		<p><u>8 5/8" Casing Detail</u></p>																																													
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">1</td> <td style="width: 85%;">8 5/8" Dowell Texas pattern guide shoe 8rd .....</td> <td style="width: 10%; text-align: right;">.80'</td> </tr> <tr> <td>1 jt</td> <td>8 5/8" 24# K-55 8rd ST&amp;C R03 casing, new .....</td> <td style="text-align: right;">39.31'</td> </tr> <tr> <td>1</td> <td>insef (Dowell) float valve .....</td> <td style="text-align: right;">0.00'</td> </tr> <tr> <td>6 jts</td> <td>8 5/8" 24# K-55 8rd ST&amp;C R-3 casing, new .....</td> <td style="text-align: right;">233.79'</td> </tr> <tr> <td></td> <td>Total casing run .....</td> <td style="text-align: right;">273.90'</td> </tr> <tr> <td></td> <td>Casing cut off .....</td> <td style="text-align: right;">-21.20'</td> </tr> <tr> <td></td> <td>Casing in hole .....</td> <td style="text-align: right;">252.70'</td> </tr> <tr> <td></td> <td>Distance RKB to casinghead flange .....</td> <td style="text-align: right;">+14.30'</td> </tr> <tr> <td></td> <td>Casing set at .....</td> <td style="text-align: right;">267.00'</td> </tr> </table>	1	8 5/8" Dowell Texas pattern guide shoe 8rd .....	.80'	1 jt	8 5/8" 24# K-55 8rd ST&C R03 casing, new .....	39.31'	1	insef (Dowell) float valve .....	0.00'	6 jts	8 5/8" 24# K-55 8rd ST&C R-3 casing, new .....	233.79'		Total casing run .....	273.90'		Casing cut off .....	-21.20'		Casing in hole .....	252.70'		Distance RKB to casinghead flange .....	+14.30'		Casing set at .....	267.00'																		
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23 jts	5 1/2" 20# N-80 8rd LT&C R-3 casing .....	759.95'																																													
28 jts	5 1/2" 17# N-80 8rd LT&C R-3 casing .....	1182.33'																																													
1	5 1/2" Baker type J stage tool .....	1.70'																																													
74 jts	5 1/2" 17# N-80 8rd LT&C R-3 casing .....	3122.53'																																													
1 jt	5 1/2" 20# N-80 8rd LT&C R-3 casing .....	38.89'																																													
	Total casing run .....	8301.80'																																													
	Casing cut off .....	- 19.80'																																													
	Casing in hole .....	8282.00'																																													
	Distance RKB to CHF .....	+ 14.80'																																													
	Casing set at .....	8296.80'																																													
		<p>Notes: - Baker stage collars at 5100.80' and at 3156.42'. - Baker cement baskets at 5139', 5177' and 3190', 3231'. - Baker centralizers at: 8276', 8212', 8150', 8140', 8130', 8120', 8110', 8015', 8025', 7910', 7920', 7310', 7320', 7330', 7210', 7220', 7230', 7240', 6610', 6620', 6630', 5105', 5095', 4840', 4852', 3161', 3150', 1630', 1640', 1050', and 1068'. - Baker self fill float collar 8251'. - Gross hook load 115,000 lbs. - Hung casing with 88,000# wt on hanger. - Top connection - 5 1/2" 20# N-80 stub.</p>																																													
		<p><u>2 3/8" Production Tubing Detail</u></p>																																													
12/23/89		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">1</td> <td style="width: 85%;">2 3/8" notched tubing collar .....</td> <td style="width: 10%; text-align: right;">.40'</td> </tr> <tr> <td>1 jt</td> <td>2 3/8" 4.7# J-55 EUE 8rd tubing .....</td> <td style="text-align: right;">30.98'</td> </tr> <tr> <td>1</td> <td>2 3/8" EUE 8rd std API SN .....</td> <td style="text-align: right;">1.10'</td> </tr> <tr> <td>59 jts</td> <td>2 3/8" 4.7# J-55 EUE 8rd tubing .....</td> <td style="text-align: right;">1826.74'</td> </tr> <tr> <td>189 jts</td> <td>2 3/8" 4.7# N-80 EUE 8rd tubing .....</td> <td style="text-align: right;">5851.94'</td> </tr> <tr> <td></td> <td>Total tubing and equipment in hole .....</td> <td style="text-align: right;">7711.16'</td> </tr> <tr> <td></td> <td>Distance RKB to top of tubing head .....</td> <td style="text-align: right;">+ 12.80'</td> </tr> <tr> <td></td> <td>Bottom of notched tubing collar .....</td> <td style="text-align: right;">7723.96'</td> </tr> <tr> <td></td> <td>Less notched collar, 1 jt tbg and SN .....</td> <td style="text-align: right;">- 32.48'</td> </tr> <tr> <td></td> <td>Top of SN .....</td> <td style="text-align: right;">7691.48'</td> </tr> </table>	1	2 3/8" notched tubing collar .....	.40'	1 jt	2 3/8" 4.7# J-55 EUE 8rd tubing .....	30.98'	1	2 3/8" EUE 8rd std API SN .....	1.10'	59 jts	2 3/8" 4.7# J-55 EUE 8rd tubing .....	1826.74'	189 jts	2 3/8" 4.7# N-80 EUE 8rd tubing .....	5851.94'		Total tubing and equipment in hole .....	7711.16'		Distance RKB to top of tubing head .....	+ 12.80'		Bottom of notched tubing collar .....	7723.96'		Less notched collar, 1 jt tbg and SN .....	- 32.48'		Top of SN .....	7691.48'															
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	Top of SN .....	7691.48'																																													
		<p>Note: Bottom of tubing string is 34' above top Mesa Verde perforations.</p>																																													

QUINTANA PETROLEUM CORPORATION

601 JEFFERSON STREET-CULLEN CENTER

HOUSTON, TEXAS

(713) 651-8600

PLEASE ADDRESS CORRESPONDENCE TO:

P. O. BOX 3331

HOUSTON, TEXAS 77253

June 27, 1991

RECEIVED

JUL 0 1 1991

STATE OF UTAH  
Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

DIVISION OF  
OIL GAS & MINING

Attn: Mr. R. J. Firth  
Assoc. Director, Oil & Gas

43-047-21869  
RE: **BADLANDS FEDERAL NO. 1-32**  
**UINTAH COUNTY, UTAH**

Dear Mr. Firth:

Please find attached the subsequent *Report of Workover and Recompletion* you requested by letter dated May 31, 1991. I am not sure how detailed a report you require to approve the qualifying expenses. To insure you receive all the information you require, I have included our well history and daily workover reports for the time period in question.

If I may provide additional information, please call 713/651-8633. If the daily reports and history are not needed, please discard.

Respectfully,



T. M. Stone  
Drilling Manager

TMS/sk  
Attachment

cc: Badlands Fed. #1-32 Well File (w/att.)

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

6. Lease Designation and Serial Number

7. Indian Allottee or Tribe Name

8. Unit or Communitization Agreement

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT— for such proposals

1. Type of Well  
 Oil Well     Gas Well     Other (specify)

2. Name of Operator  
 QUINTANA PETROLEUM CORPORATION

3. Address of Operator  
 P.O. Box 3331, Houston, Texas 77253

4. Telephone Number  
 713/651-8600

5. Location of Well  
 613' FSL and 704' FEL of Sec. 32  
 Footage :  
 QQ, Sec. T., R., M. : SE $\frac{1}{4}$ , SE $\frac{1}{4}$ , 32 T8S-R23E

9. Well Name and Number  
 Badlands Federal #1-32

10. API Well Number  
 43-047-21869

11. Field and Pool, or Wildcat

County : Uintah  
 State : UTAH

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input checked="" type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input checked="" type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate Date Work Will Start <u>10/22/90</u>	Date of Work Completion <u>12/05/90</u>

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  
 \* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

B&B Well Service Rig #1 mobilized to location 10/22/90. A CIBP was wireline set at 7605' KB with 5 sx cement placed on top. Perfs at 7212', 4SPF, were cement squeezed below EZSV at 7180' with 90 sx cement below ret. at 2250 psi final squeeze pressure. Drilled out EZSV and cleaned out to 7570'. Ran CBL-GR log 7400'-6800'. Perforated Wasatch 7310'-20', 7226'-38' (24 holes). Went in hole with swab packer. Swab tested perfs 65 MCF/D at 75 FTP. Acid washed perfs with perforation wash tool. Acidized with 724 gallons 15% HCl on lower perfs. Acidized upper perfs with 1076 gallons 15% HCl. Swabbed-in well. Tested average 170 MCF/D at 15 psi FTP. Ran 7146', 2-3/8" tubing. N/U tree. Released rig 11/06/90. Move in frac equipment 12/01/90. Frac'd well on 12/03/90 with total 142,000#, 20/40 mesh sand. Unloaded well. After clean-up, tested with variable rates. Last recorded rate on 12/05/90 820 MCF/D with 70 psi FTP. Job complete 12/05/90.

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

Name & Signature T. M. Stone *TM Stone* Title Drilling Manager Date 06/26/91

(State Use Only)

OPERATOR QUINTANA PETROLEUM CORP

OPERATOR ACCT. NO. N 9485

ADDRESS \_\_\_\_\_

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	10745	11627	43-047-31869	BADLANDS FED #1-32	SESE	32	8S	23E	UINTAH		
WELL 1 COMMENTS: *ENTITY 10745/WSTC A P.A. "BADLANDS UNIT". THE 1-32 WELL IS WITHIN THE WSTC B P.A. THEREFORE A NEW ENTITY HAS BEEN ESTABLISHED FOR THE WSTC B P.A.											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

**ACTION CODES (See instructions on back of form)**

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

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

(3/89)

L. CORDOVA (DOGM)

Signature

ADMIN. ANALYST

Title

4-13-94

Date

Phone No. ( )

**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		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
NORTH CHAPITA FED. 1-36			MVRD			U-56960	(Badlands Unit)	Blm App. 1-25-95
4304731795	10745	08S 22E 36						
LITTLE BONANZA 1-4			NESE WSTC			U-54017	(C.A. UTU 71692)	Blm App. 1-25-95
4304731854	10937	09S 24E 4						
BADLANDS FEDERAL 1-31			MVRD			U-61401	(Badlands Unit)	Blm App. 1-25-95
4304731857	10960	08S 23E 31						
CABALLO UNIT 1-15			ISMY			U-62953	(Caballo Unit)	"
4303731403	10994	36S 23E 15						
DEADMAN CANYON FEDERAL #2-20			ISMY			U-57469	(Deadman Unit)	"
4303731303	11010	37S 24E 20						
DEADMAN CANYON 3-20			ISMY			U-57469	(Deadman Unit)	"
4303731304	11010	37S 24E 20						
DEADMAN CANYON FED #1-28			ISMY			U-49678	(Deadman Unit)	"
4303731306	11010	37S 24E 28						
BADLANDS FED #1-32			MVRD			U-56965	(Badlands Unit)	Blm App. 1-25-95
4304731869	11627	08S 23E 32						
Deadman Cyn. 1-20			ISMY / GIW			U-57469	(Deadman 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.

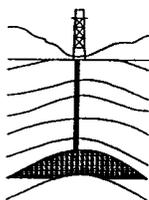
Date: \_\_\_\_\_

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

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

**BALLARD & ASSOCIATES, INC.**

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



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

**W. W. Ballard  
President**

**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.

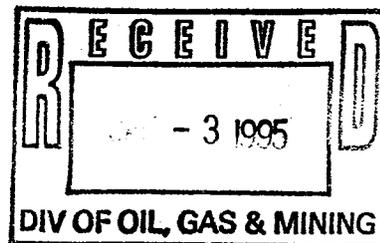
Sincerely,

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

RECEIVED  
- 3 1005  
DIV OF OIL, GAS & MINING

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
 Ballard & Associates

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 613' FSL & 704' FEL  
 SE SE Section 32, T8S-R23E

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation  
 UTU60917C

8. Well Name and No.  
 BADLANDS FED. #1-32

9. API Well No.  
 43-047-31869

10. Field and Pool, or Exploratory Area  
 Wildcat

11. County or Parish, State  
 Uintah 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 UT1005 issued by Norwest Bank Billings letter of credit.

Seller/Owner/Lessee Name: QUINTANA PETROLEUM CORPORATION  
 Date: December 7, 1994  
 Signed: Jmsider

cc: Utah DOGM

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

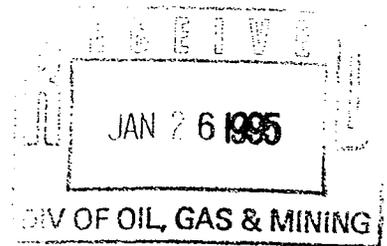
Signed H. S. Kozil Title Vice President Acquisitions Date 12/19/94

(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.

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

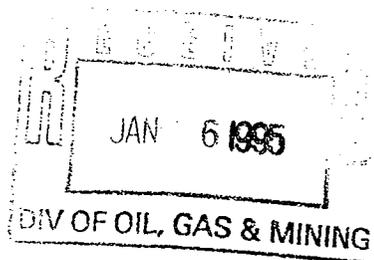
bcc: District Manager - Vernal (w/enclosure)  
Division of Oil, Gas & Mining  
Branch of Mineral Leasing Adjudication  
File - Badlands Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron  
Fluid Chron

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

WELL STATUS REPORTS  
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT	SEC	TWN	RNG	WELL STATUS	LEASE NAME	OPERATOR
** INSPECTION ITEM UTU60917A UTU60917A	430473185700S1	BADLANDS MV A 1-31	SE	NW	31 8S	23E	PGW	UTU61401	QUINTANA PETROLEUM CORPOR
** INSPECTION ITEM UTU60917B UTU60917B	430473179500S1	BADLANDS WS A 1-36	S	W	36 8S	22E	PGW	UTU56960	QUINTANA PETROLEUM CORPOR
** INSPECTION ITEM UTU60917C UTU60917C	430473186900S1	BADLANDS WS B 1-32	S	E	32 8S	23E	PGW	UTU56965	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

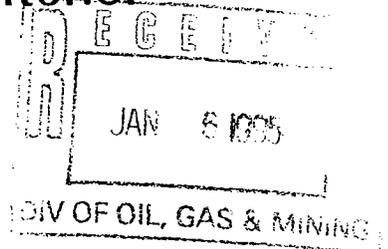
bcc: District Manager - Moab (w/enclosure)  
Division of Oil, Gas & Mining  
Branch of Mineral Leasing Adjudication  
File - Caballo Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron  
Fluid Chron

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

# 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,

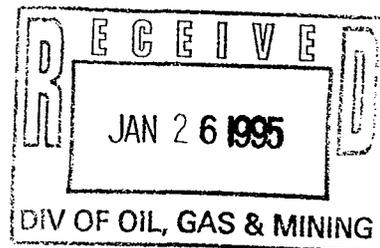
/s/ Robert A. Henricks

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

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- REC	<input checked="" type="checkbox"/>
2- LWF 7-PL	<input checked="" type="checkbox"/>
3- DTS 8-SJ	<input checked="" type="checkbox"/>
4- VLG 9-FILE	<input checked="" type="checkbox"/>
5- RJF	<input checked="" type="checkbox"/>
6- LWP	<input checked="" type="checkbox"/>

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>047-31869</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**

- Lee 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)*
- Lee 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)*
- Lee 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) (circled)* If yes, show company file number: #172063
- Lee 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.
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(1-30-95)*
- Lepp 6. Cardex file has been updated for each well listed above. *2-9-95*
- Lepp 7. Well file labels have been updated for each well listed above. *2-9-95*
- Lee 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)*
- Lee 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.

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

### ENTITY REVIEW

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

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

### BOND VERIFICATION (Fee wells only)

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

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

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

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A  
2/9/95  
203 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

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

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

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

### COMMENTS

B/m Apr. eff. 1-25-95



# 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.

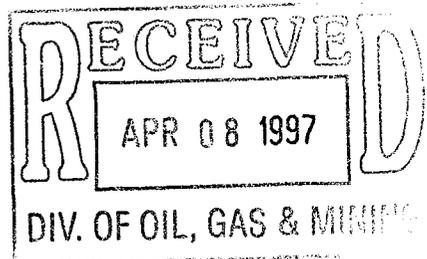
	U-20544	Deadman-U-57469	Cabello-U-62953	U-62073 (ROW)
Deadman-	U-49678	U-58726	UTU-64422	U-63959 (ROW)
	U-54017	U-61400	UTU-65471	U-63980 (ROW)
Badlands-	U-56960	Badlands-U-61401	UTU-65472	U-63996 (ROW)
Badlands-	U-56965	U-62252	U-59127 (ROW)	UTU-65118 (ROW)

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

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

ROBERT LOPEZ

Group Leader,  
Minerals Adjudication Group



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

Return recorded cop. to: Welborn Sullivan Mer & 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 BERP 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.

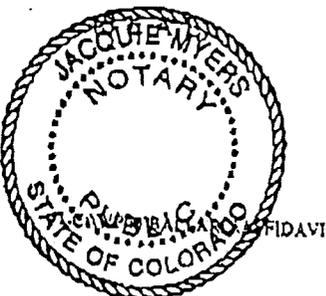
[MONTANA, NORTH DAKOTA]

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



**H. J. Kagie**  
Sr. Vice President, Director

Denver, Colorado

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

**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:



**OPERATOR CHANGE WORKSHEET**

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

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: 3-20-97

<b>TO:</b> (new operator)	<u>BALLARD PETROLEUM LLC</u>	<b>FROM:</b> (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) UNITS)						
*DEADMAN CYN FED 1-20	43-037-31293	10696	20	37S	24E	U57469		
Name: <u>NORTH CHAPITA FED 1-36</u>	API: <u>43-047-31795</u>	Entity: <u>10745</u>	S <u>36</u>	T <u>8S</u>	R <u>22E</u>	Lease: <u>U56960</u>		
Name: <u>BADLANDS FED 1-31</u>	API: <u>43-047-31857</u>	Entity: <u>10960</u>	S <u>31</u>	T <u>8S</u>	R <u>23E</u>	Lease: <u>U61401</u>		
Name: <u>CABALLO UNIT 1-15</u>	API: <u>43-037-31403</u>	Entity: <u>10994</u>	S <u>15</u>	T <u>36S</u>	R <u>23E</u>	Lease: <u>U62953</u>		
Name: <u>DEADMAN CYN FED 2-20</u>	API: <u>43-037-31303</u>	Entity: <u>11010</u>	S <u>20</u>	T <u>37S</u>	R <u>24E</u>	Lease: <u>U57469</u>		
Name: <u>DEADMAN CANYON 3-20</u>	API: <u>43-037-31304</u>	Entity: <u>11010</u>	S <u>20</u>	T <u>37S</u>	R <u>24E</u>	Lease: <u>U57469</u>		
Name: <u>DEADMAN CYN FED 1-28</u>	API: <u>43-037-31306</u>	Entity: <u>11010</u>	S <u>28</u>	T <u>37S</u>	R <u>24E</u>	Lease: <u>U49678</u>		
Name: <u>BADLANDS FEDERAL 1-32</u>	API: <u>43-047-31869</u>	Entity: <u>11627</u>	S <u>32</u>	T <u>08S</u>	R <u>23E</u>	Lease: <u>U56965</u>		

**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) yes If yes, show company file number: # LCC018225 (2A-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) no If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

**BOND VERIFICATION - (FEE WELLS ONLY)**

- N/A 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
- Yes 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. OK 7/21/97
- N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated     19    , of their responsibility to notify all interest owners of this change.

**FILMING**

- 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)

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 - 56965**

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.  
**Badlands Federal # 1-32**

9. API Well No.  
**43-047-31869**

10. Field and Pool, or Exploratory Area  
**Badlands**

11. County or Parish, State  
**Uinta County, Utah**

**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)  
**SE SE Section 32, T8S, R23E 613' FSL, 704' FEL**

**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 checked="" 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 checked="" 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 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.)

**Please be advised that the operator request permission to perform remedial wellbore work to return this well to production. Attached is the proposed workover plan to remove stuck wireline equipment and then open up a new zone for possible production of gas. This new zone of production is approximately 200' below the existing production perms. They are still within the same geological formation. We are testing a different sand streak. Due to equipment scheduling, the anticipated time to begin this workover is October 30th.**

COPY SENT TO OPERATOR  
Date: 10-24-00  
Initials: CHD

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

Name (Printed/Typed)  
**MICHAEL J. PERIUS**

Signature *Michael J. Perius*

Title **OPERATIONS SUPERINTENDENT**

Date **10-19-00**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by *[Signature]* Title **Petr. Engr.** Date **10-24-00**

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 **Utah DOGM**

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.

# RECOMPLETION PROCEDURE

By: Mike Perius

## BADLANDS FEDERAL #1-32 WELL

613' FSL, 704' FEL

SE/SE Section 32, T8S, R23E

Uinta County, Utah

### PERTINATE DATA

KB: 15 feet KB Elev. = 4998 GL Elev. = 4983

Surface Casing: 8-5/8", 24 #/ft, Set at 267' KB, Cemented w/ 179 sacks class "G" w/ 2% CaCL<sub>2</sub>. Cement to surface ok.

Production Casing: 5-1/2", 17# and 20# N-80 casing set at 8297' KB cemented with 3-stage cement job. DV's @ 5100' & 3156'. Stage 1 = 385 sks 50/50 Poz (1.28cf/sk, 14.4#/gal). Stage 2 = 190 sks 50/50 Poz (1.27cf/sk, 14.3#/gal). Stage 3 = 565 sks Lite (1.77 cf/sk, 13.3#/gal, followed by 50 sks "G" (1.15 cf/sk, 15.8#/gal). The Original PBTB = 8245' KB.

Tubing : 2 3/8", 4.7#/ft, N-80 & J-55 8rd EUE.  
Current end of tubing: 7146' KB  
Current PBTB: 7570' KB = Dump bailed cement on top of CIBP set @ 7605' KB covering earlier producing perfs.

Existing Perfs: 7212' & 7213' are squeeze perfs used in 1990 to try and bring cement above zone of interest @ 7226' to 7238'. 85 sks of G cement was squeezed through the perfs and the resulting cement top was +/- 7150'. The squeeze was drilled out and the following production perfs were opened up.

7226' to 7238'

7310' to 7320' these are the current production perfs.

Proposed Perfs: 7440' to 7444'

Hole Problems: Field personnel suspect that a casing hole may exist as the well produces small amounts of green oil on an intermittent basis. An offset well (# 1-36 North Chapita Federal) had this problem with a hole between 4055' and 4553'.

RECOMPLETION PROCEDURE

- 1.) Prepare and fix lease road, check rig anchors.
- 2.) MIRU workover unit and auxiliary equipment.
- 3.) Kill well with 80 bbls of 3% KCL water. Install and test BOPS to 1000 psi.
- 4.) Pull out of hole with 7146' of 2 3/8" tbg, cutting off and junking out the slick line wire that is hung up in the tbg due to the plunger fishing tools being stuck on the plunger that is in the SN.
- 5.) Make up & trip in hole with bridge plug and packer, isolate existing perfs and search up & down hole to find possible casing hole. Should the hole be so located that it is above the current top of cement (7150'), we will not attempt to repair the casing integrity at this time.
- 6.) Design frac work for new zone at 7440-44 with the probability that the frac will need to be pumped down 2 3/8" tbg with a packer set @ approximately 7350'. This will put any possible casing hole and the currently producing perfs behind the tubing. We will not be able to hold any backside pressure on the well bore during the frac.
- 7.) Perforate 7440' to 7444' with 4 JSPF, .38" holes and 42-gram charges. Correlate perfs to Badlands Federal #1-32 Compensated Density log dated 9-27-89.
- 8.) Complete a breakdown on the perfs at 7440 to 7444 with 500 gals of 7.5% HCL acid one day prior to pumping a frac.
- 9.) Pump frac as designed by BJ Services, Vernal, Utah.
- 10.) Flow back and swab if necessary to cleanup well after frac.
- 11.) Trip out of hole with tubing and stimulation packer after cleanup of frac. Trip in hole with production packer and SN with notched collar, set up well for production operations via plunger as before.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**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 - 56965**

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

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

8. Well Name and No.  
**Badlands Federal # 1-32**

9. API Well No.  
**43-047-31869**

10. Field and Pool, or Exploratory Area  
**Badlands**

11. County or Parish, State  
**Uinta County, Utah**

**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)  
**SE SE Section 32, T8S, R23E 613' FSL, 704' FEL**

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input checked="" 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 checked="" 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 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.)

Please be advised that the operator has completed the workover project on the above mentioned well and hereby reports the work history and results. MIRU Key well service rig on 10-23-00. Pulled tubing and removed all slickline wire and tools. Cleaned wellbore to PBTD of 7570' KB. Isolated and tested casing integrity up from PBTD. Determined a slight casing leak existed between 3825' to 3943'. The hole would loose 375 pounds of pressure in 1 minute. Our conclusion was it would not hinder the planned frac attemp and we proceeded with the workover. Perforated 7440' to 7444' w 4 JSPF, .38" holes with 39 gram charges. Brokedown perfs with packer set @ 7362', pumped 500 gals of 7.5% HCL at 4.5 BPM rate @ 4400 psi. Swabbed back load and fraced new perfs with 250 Bbls of Viking ID-30P fluid with 15,720 lb sand, 18,760 lb of resin coated sand and 140 MSCF of N2. Average rate = 7.5 BPM, averate psi = 5900 psi. Swab and flow back load. Production test well with EOT @ 7103' and isolation packer @ 4011' to blank off casing leak. Recovered 600+ bbls water over load. Concluded that new perfs were producing all water. Set well up to run on plunger operation 12-6-00. Actual production for the month of December 2000 was 320 MCF and 40 BW.

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

Name (Printed/Typed)  
**MICHAEL J. PERIUS**

Title  
**OPERATIONS SUPERINTENDENT**

Signature  
*Michael J. Perius*

Date  
**01-31-01**

**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 \_\_\_\_\_



# 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, Attorney-in-Fact  
8 Greenway Plaza, Suite 400  
Houston, Texas 77046

  
Mary A. Viviano, 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:

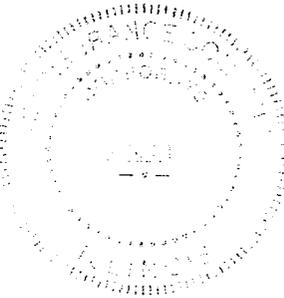
"All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. 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: COUNTY: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: <b>UTAH</b>		8. WELL NAME and NUMBER:
PHONE NUMBER: <b>(303) 389-5060</b>		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT:

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"/> 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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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



# 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.

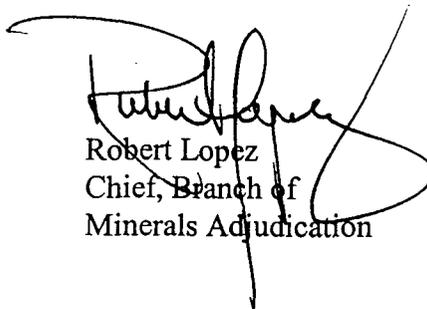
A cross reference was accomplished with our records and found that the lease UTU-58726 was not identified on your listing. We will appropriately document those files with a copy of this Notice.

**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.

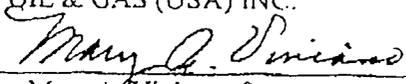
FIFTH: The merger of Mapleleaf Transactions, Inc. and Ballard Petroleum LLC into AEC Oil & Gas (USA) Inc. shall be effective on (i) 11:59 pm EST, December 31, 2001; and (ii) the day and hour of the filing of this Certificate of Merger in the office of the Secretary of State of Delaware.

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

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH
2. CDW ✓
3. FILE

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change

X Merger

The operator of the well(s) listed below has changed, effective:		<b>12-31-2001</b>
<b>FROM: (Old Operator):</b>		<b>TO: ( New Operator):</b>
BALLARD PETROLEUM LLC		AEC OIL & GAS (USA) INC
Address: 950 17TH STREET, STE 2600		Address: 950 17TH STREET, STE 2600
DENVER, CO 80202		DENVER, CO 80202
Phone: 1-(303)-389-5015		Phone: 1-(303)-389-5015
Account No. N2310		Account No. N2085

CA No. Unit: BADLANDS

WELL(S)						
NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NORTH CHAPITA 1-36	36-08S-22E	43-047-31795	10745	FEDERAL	GW	P
BADLANDS FEDERAL 1-31	31-08S-23E	43-047-31857	10960	FEDERAL	GW	S
BADLANDS FEDERAL 1-32	32-08S-23E	43-047-31869	11627	FEDERAL	GW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 02/04/2002
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 02/04/2002
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 02/04/2002
- Is the new operator registered in the State of Utah: YES Business Number: 764413-0143
- If **NO**, the operator was contacted on: N/A
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 12/28/2001

**7. Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 12/28/2001

**8. Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

**9. Underground Injection Control ("UIC")**

The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 02/05/2002

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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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# United States Department of the Interior



BUREAU OF LAND MANAGEMENT  
Montana State Office  
5001 Southgate Drive, P.O. Box 36800  
Billings, Montana 59107-6800  
<http://www.mt.blm.gov/>

In Reply To:

MTBIL 027549 et al  
BLM Bond Nos. MT1009  
WY1380  
UT1005  
CO1384

(922.EK)

May 10, 2002

## NOTICE

EnCana Energy Resources Inc.  
EnCana Oil & Gas (USA) Inc.  
600 South Excelsior  
Butte, Montana 59701

### CORPORATE MERGERS AND NAME CHANGES RECOGNIZED

You have filed acceptable evidence confirming the following corporate merger and resulting name changes.

#### **Merger:**

PanCanadian Energy Corporation and Alberta Energy Company Ltd. with a name change to EnCana Corporation - April 8, 2002

#### **Name Changes:**

PanCanadian Resources to EnCana Resources - April 9, 2002  
PanCanadian Heritage Lands to EnCana Heritage Lands - April 9, 2002  
PanCanadian Energy Services Inc. to EnCana Energy Services Inc. -  
April 8, 2002  
PanCanadian Energy Resources Inc. to EnCana Energy Resources Inc. -  
April 3, 2002  
PanCanadian Gulf of Mexico Inc. to EnCana GOM Inc. - April 8, 2002  
PanCanadian Midstream Inc. to EnCana Midstream Inc. - April 8, 2002  
PanCanadian Midstream Limited to EnCana Midstream Limited -  
April 8, 2002  
PanCanadian Energy Holdings Inc. to EnCana Energy Holdings Inc. -  
April 8, 2002  
  
AEC Gathering Services (USA) Inc. to EnCana Gathering Services (USA)  
Inc. - April 5, 2002  
AEC Gulf of Mexico Inc. to EnCana Gulf of Mexico Inc. - April 8, 2002  
AEC International (USA) Inc. to EnCana International (USA) Inc. -  
April 8, 2002  
AEC Marketing (USA) Inc. to EnCana Marketing (USA) Inc. - April 8, 2002  
AEC Oil & Gas (USA) Inc. to EnCana Oil & Gas (USA) Inc. - April 5, 2002  
AEC Oil & Gas Co. Ltd. to EnCana Oil & Gas Co. Ltd. - April 5, 2002  
AEC Oil & Gas Partnership to EnCana Oil & Gas Partnership -  
April 8, 2002  
AEC Pipelines (USA) Inc. to EnCana Pipelines (USA) Inc. - April 8, 2002  
  
AEC Storage and Hub Services Inc. to EnCana Gas Storage Inc. -

April 8, 2002  
AEC West Ltd. to EnCana West Ltd. - April 5, 2002  
AEC Pipelines Ltd. to EnCana Pipelines Ltd. - April 8, 2002

For our purpose we are recognizing the merger and name changes effective as shown above, as certified by the various Secretary of the States or the Canadian Office of Register. The principal automatically changes by operation of law from PanCanadian Energy Resources Inc. to EnCana Energy Resources Inc. on bond no. 055 S103356131BCM (BLM Bond No. MT1009) with Travelers Casualty & Surety Company of America as surety. The principal automatically changes by operation of law from AEC Oil & Gas (USA) Inc. to EnCana Oil & Gas (USA) Inc. on the following bonds:

Bond No. SLRC6413968 (BLM Bond No. WY1380) - The American Insurance Company as surety.  
Bond No. RLB0002901 (BLM Bond No. CO1384) - RLI Insurance Company as surety.  
BLM Bond No. UT1005 backed by a Letter of Credit.

We updated the oil and gas lease files identified on the enclosed exhibits A, B and C to reflect the new names. We compiled the exhibit from leases shown on our automated records system and the list you submitted. We are notifying the Minerals Management Service and applicable Bureau of Land Management offices of the change so they can update their records. If our field offices require additional documentation for changes of operator, they will contact you.

If you identify additional leases affected by the name change, please contact this office and we will document the files under our jurisdiction with a copy of this notice. If the leases are under the jurisdiction of another State Office, we will notify them.

If you have any questions, please contact Elaine at (406) 896-5108, or FAX (406) 896-5292.

/s/ Karen L. Johnson

Karen L. Johnson, Chief  
Fluids Adjudication Section

3 Enclosures

- 1-Exhibit A - BLM automated records report
- 2-Exhibit B - List of leases submitted by PanCanadian Energy Res.
- 3-Exhibit C - BLM automated records report for AEC OG (USA), AEC O&G (USA) INC, AEC OIL & GAS (USA) INC, AEC OIL & GAS USA INC,

cc: (w/encl)

Travelers Casualty & Surety Company of America, One Tower Square, Hartford, CT 06183-6014

RLI Insurance Company, 9025 N. Lindbergh Drive, Peoria, IL 61615

The American Insurance Company, 777 San Marin Drive, Novato, CA 94998

MMS, MRM, Attn: Gail Ryer, P.O. Box 5760, MS357B1, Denver, CO 80217

FM, North Dakota

FM, Miles City

Great Falls Oil & Gas Field Station

MT-922 (RM&O Section)

MT-930 (Cashier)

SMA

Merger/Name Change File

cc: (without enclosure)

All State Offices (electronic)

MT-921

MT-924

Bureau of Indian Affairs, Regional Director Rocky Mountain Region, Real  
Estate Services, 316 North 26<sup>th</sup> Street, Billings, MT 59101  
Bureau of Indian Affairs, Regional Director Great Plains Regional Office, 115  
4<sup>th</sup> Ave. S.E. Aberdeen SD 57401

922.Ekaufman:cs:5/10/02:X5108:pancanadian.elk.doc



**RECEIVED**

MAY 17 2002

**DIVISION OF  
OIL, GAS AND MINING**

**EnCana Oil & Gas (USA) Inc.**

950 17th Street

Suite 2600

Denver CO USA 80202

tel: (303) 623-2300

fax: (303) 623-2400

[www.encana.com](http://www.encana.com)

To Whom It May Concern:

⇒US E&P Notice

On April 5, 2002 the Canadian merger transaction between PanCanadian Energy Corporation (PanCanadian) and Alberta Energy Company Ltd. (AEC) took effect and we began operating as **EnCana Corporation** on April 8, 2002.

As a result of the merger, several former PanCanadian affiliates have changed their names:

- PanCanadian Energy Corporation has become **EnCana Corporation**
- PanCanadian Resources has become **EnCana Resources**
- PanCanadian Heritage Lands has become **EnCana Heritage Lands**
- PanCanadian Energy Services Inc. has become **EnCana Energy Services Inc.**
- PanCanadian Energy Resources Inc. has become **EnCana Energy Resources Inc.**
- PanCanadian Gulf of Mexico Inc. has become **EnCana GOM Inc.**
- PanCanadian Midstream Inc. has become **EnCana Midstream Inc.**
- PanCanadian Midstream Limited has become **EnCana Midstream Limited**
- PanCanadian Energy Holdings Inc. has become **EnCana Energy Holdings Inc.**

Also, as a result of the merger AEC became an indirect subsidiary of EnCana Corporation. *AEC's name has not changed and if you dealt with AEC in the past you should continue to deal with AEC in the normal fashion.* The following AEC affiliates have, however, changed their names:

- ⇒ **AEC Gathering Services (USA) Inc. has become EnCana Gathering Services (USA) Inc.**
  - AEC Gulf of Mexico Inc. has become **EnCana Gulf of Mexico Inc.**
  - AEC International (USA) Inc. has become **EnCana International (USA) Inc.**
  - AEC Marketing (USA) Inc. has become **EnCana Marketing (USA) Inc.**
- ⇒ **AEC Oil & Gas (USA) Inc. has become EnCana Oil & Gas (USA) Inc.**
  - AEC Oil & Gas Co. Ltd. has become **EnCana Oil & Gas Co. Ltd.**
  - AEC Oil & Gas Partnership has become **EnCana Oil & Gas Partnership**
  - AEC Pipelines (USA) Inc. has become **EnCana Pipelines (USA) Inc.**
  - AEC Storage and Hub Services Inc. has become **EnCana Gas Storage Inc.**
  - AEC West Ltd. has become **EnCana West Ltd.**
  - AEC Pipelines Ltd. has become **EnCana Pipelines Ltd.**

Please address all future notices, invoices, payments, correspondence and other communications to the appropriate EnCana entity. The mailing address for the entity you have been dealing with will remain the same until you are notified otherwise.

If you have outstanding contract(s) with any of the above-noted entities, no changes or amendments are required at this time.

⇒If you are dealing with any other former PanCanadian or AEC affiliates which are not listed above, **such as McMurry Oil Company and Fort Collins Consolidated Royalties, Inc.**, you may assume that such affiliate's name has not changed and you should continue to do business with that affiliate in the normal fashion until further notice.

If you require the *Proof of Filing* or the effective date of the respective name changes, you can download them from our web site at [www.encana.com/Doing business with us](http://www.encana.com/Doing business with us).

EnCana Corporation and its affiliates look forward to a continued business relationship with you.

**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 checked="" type="checkbox"/> OTHER <u>NAME CHANGE</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: EnCana Oil & Gas (USA) Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 950 17th Street, #2600 <small>CITY</small> Denver <small>STATE</small> CO <small>ZIP</small> 80202		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: _____ COUNTY: _____ QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____ STATE: <b>UTAH</b>		8. WELL NAME and NUMBER:
		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT:
		PHONE NUMBER: (303) 389-5060

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 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 checked="" type="checkbox"/> OTHER: <u>Name Change</u>
	<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.

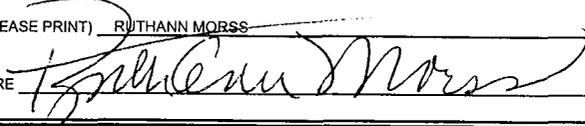
Effective 4-8-02 the name of AEC Oil & Gas (USA) Inc. was changed to EnCana Oil & Gas (USA) Inc. A copy of the Bond No. RLB0002902 is enclosed. The name of the Principal has been changed under this bond to read EnCana Oil & Gas (USA) Inc.

Attached is a list of Utah wells affected by this name change. It is requested the Operator Name be changed from AEC Oil & Gas (USA) Inc. to EnCana Oil & Gas (USA) Inc.

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JUN 19 2002

DIVISION OF  
OIL, GAS AND MINING

NAME (PLEASE PRINT) RUTHANN MORSS TITLE PERMITTING AGENT  
SIGNATURE  DATE \_\_\_\_\_

(This space for State use only)

APR-05-2002 FRI 02:09 PM WSM&T

FAX NO. 3038322366  
STATE OF DELAWARE  
SECRETARY OF STATE 02  
DIVISION OF CORPORATIONS  
FILED 04:12 PM 04/05/2002  
020221516 - 2137895

**CERTIFICATE OF AMENDMENT  
OF CERTIFICATE OF INCORPORATION  
OF AEC OIL & GAS (USA) INC.**

AEC Oil & Gas (USA) Inc., a Delaware corporation (the "Corporation") hereby certifies as follows:

1. The Board of Directors and Sole Stockholder of the Corporation have adopted the following resolution in accordance with Section 242 of the General Corporation Law of the State of Delaware, as amended:

RESOLVED, that the Corporation's Certificate of Incorporation is hereby amended by deleting the FIRST paragraph of said certificate in its entirety and by substituting the following therefor:

"FIRST. The name of the Corporation is EnCana Oil & Gas (USA) Inc."

2. The capital of the Corporation shall not be reduced under or by reason of said amendment.

AEC OIL & GAS (USA) INC.

By: Mary A. Viviano  
Mary A. Viviano, Secretary

Date: 4-5-02

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JUN 19 2002

DIVISION OF  
OIL, GAS AND MINING

BOND RIDER NO. 3

Attaching to and forming part of Oil and Gas or Geothermal Lease Bond, Bond No. RLB0002902, effective February 20, 2001, on behalf of AEC Oil & Gas (USA) Inc. 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 June 1, 2002, the name of the Principal has been changed under this bond to read:

EnCana Oil & Gas (USA) Inc.

All other conditions and terms to remain as originally written.

Signed, Sealed and dated this 31st day of May, 2002.

EnCana Oil & Gas (USA) Inc.

Principal

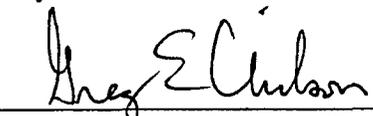
By

  
Eric D. Marsh, Vice President

RLI Insurance Company

Surety

By

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

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JUN 19 2002

DIVISION OF  
OIL, GAS AND MINING



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:

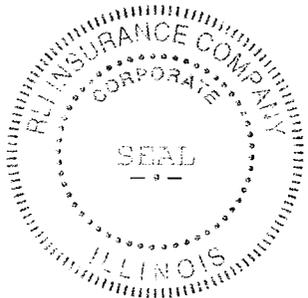
"All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize.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



By: Jonathan E. Michael  
President

State of Illinois )  
County of Peoria ) SS

On this 31 day of May 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



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JUN 19 2002

DIVISION OF  
OIL, GAS AND MINING

SPA026 (10/01)

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

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**DIVISION OF  
OIL, GAS AND MINING**



**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH
2. CDW ✓
3. FILE

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change

**X**      **Merger**

The operator of the well(s) listed below has changed, effective: <b>04-08-2002</b>	
<b>FROM:</b> (Old Operator):	<b>TO:</b> ( New Operator):
AEC OIL & GAS USA INC	ENCANA OIL & GAS INC
Address: 950 17TH STREET, STE 2600	Address: 950 17TH STREET, STE 2600
DENVER, CO 80202	DENVER, CO 80202
Phone: 1-(406)-628-4164	Phone: 1-(303)-623-2300
Account No. N2085	Account No. N2175

**CA No.**                      **Unit:**      **BADLANDS**

<b>WELL(S)</b>						
NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NORTH CHAPITA FEDERAL 1-36	36-08S-22E	43-047-31795	10745	FEDERAL	GW	P
FEDERAL 24-36	36-08S-22E	43-047-34128	99999	FEDERAL	GW	APD
FEDERAL 43-36	36-08S-22E	43-047-34132	99999	FEDERAL	GW	APD
FEDERAL 24-30	30-08S-23E	43-047-34179	99999	FEDERAL	GW	APD
BADLANDS FEDERAL 1-31	31-08S-23E	43-047-31857	10960	FEDERAL	GW	TA
FEDERAL 23-31	31-08S-23E	43-047-34126	99999	FEDERAL	GW	APD
FEDERAL 24-31	31-08S-23E	43-047-33451	13138	FEDERAL	GW	P
FEDERAL 43-31	31-08S-23E	43-047-34131	99999	FEDERAL	GW	APD
<b>BADLANDS FEDERAL 1-32</b>	32-08S-23E	43-047-31869	11627	FEDERAL	GW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/19/2002
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 05/17/2002
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/20/2002
- Is the new operator registered in the State of Utah: YES Business Number: 5053175-0143
- If **NO**, the operator was contacted on: N/A
- (R649-9-2) Waste Management Plan received on: IN PLACE

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 05/10/2002

7. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 05/10/2002

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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      

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9. **Underground Injection Control ("UIC")**      The Division has approved UIC Form 5, **Transfer of Authority to Inject**,  
for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:       N/A      

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**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on:       06/20/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on:       06/20/2002
3. Bond information entered in RBDMS on:       N/A
4. Fee wells attached to bond in RBDMS on:       N/A

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**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:       UT1005

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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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**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



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 checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: ENCANA OIL & GAS (USA) INC <i>N2175</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA
3. ADDRESS OF OPERATOR: 370 17th St., Suite 1700 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED EXHIBIT "A"		8. WELL NAME and NUMBER: See attached Exhibit "A"
PHONE NUMBER: (303) 623-2300		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
COUNTY: UINTAH		
STATE: 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 (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input checked="" 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.

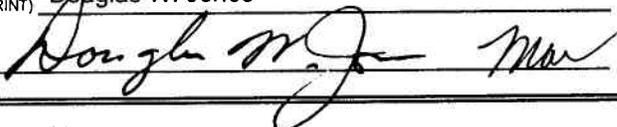
Effective Date: May 1, 2006

New Operator: EOG Resources, Inc. *N9550*  
600 17th St., Suite 1000N EOG Resources, Inc.'s contact is Sheila Singer.  
Denver, CO 80202

EOG RESOURCES, INC.

Name Kurt D. Doerr Title Agent or Attorney-in-Fact

Signature  Date 7/11/2006

NAME (PLEASE PRINT) Douglas W. Jones TITLE Attorney-in-Fact  
SIGNATURE  DATE 7/11/2006

(This space for State use only)

**APPROVED** 7/19/2006  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

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JUL 13 2006

DIV. OF OIL, GAS & MINING

EXHIBIT "A"

Attached to State of Utah Form 9 - Sundry Notices and Reports on Wells

UINTAH COUNTY, UTAH

Lease Serial Number	Encana's Well ID	API No.	Unit or CA Agreement Name	Well Name	Field and Pool	Twp	Rng	Sec	Qtr	Footages at Surface
UTU 56960	765010	047-34084		NORTH CHAPITA FEDERAL 22-36(W)	NATURAL BUTTES	8S	22E	36	SENW	1980 N 1750 W
	764998	047-31795	BADLANDS UNIT-UTU-60917A	NORTH CHAPITA FEDERAL 1-36	NATURAL BUTTES	8S	22E	36	SWSW	600 S 640 W
	765005	047-33454		FEDERAL 44-36	NATURAL BUTTES	8S	22E	36	SESE	836 S 738 E
UTU 56965	764997	047-31869	BADLANDS UNIT-UTU-60917B	BADLANDS FEDERAL 1-32	NATURAL BUTTES	8S	23E	32	SESE	613 S 704 E
	765009	047-34016		NORTH CHAPITA FEDERAL 22-32	NATURAL BUTTES	8S	23E	32	SENW	1416 N 1601 W
UTU 61400	765008	047-33452		FEDERAL 44-30	NATURAL BUTTES	8S	23E	30	SESE	900 S 500 E
	765011	047-34085		NORTH CHAPITA FEDERAL 32-30	NATURAL BUTTES	8S	23E	30	SWNE	1986 N 2148 E
UTU 61401	764996	047-31857	BADLANDS UNIT-UTU-60917A	BADLANDS FEDERAL 1-31	NATURAL BUTTES	8S	23E	31	SENW	2110 N 1910 W
	765006	047-33453		FEDERAL 44-31	NATURAL BUTTES	8S	23E	31	SESE	478 S 712 E
	765007	047-33451	BADLANDS UNIT UTU-60917A	FEDERAL 24-31	NATURAL BUTTES	8S	23E	31	SESW	508 S 2036 W
	765017	047-34131	BADLANDS UNIT UTU-60917A	NORTH CHAPITA FEDERAL 43-31	NATURAL BUTTES	8S	23E	31	NESE	1987 S 753 E
	765018	047-34126	BADLANDS UNIT UTU-60917A	NORTH CHAPITA FEDERAL 23-31	NATURAL BUTTES	8S	23E	31	NESW	2062 S 2006 W

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**RECEIVED**

**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.

JUL 13 2006

5. Lease Designation and Serial No.  
See attached Exhibit "A"

6. If Indian, Allottee or Tribe Name  
NA

7. If Unit or CA, Agreement Designation  
N/A

8. Well Name and No.  
See attached Exhibit "A"

9. API Well No.

10. Field and Pool, or Exploratory Area  
Natural Buttes

11. County or Parish, State  
Uintah, UT

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

1. Type of Well  
Oil Well  Gas Well  Other

2. Name of Operator  
ENCANA OIL & GAS (USA) INC.

3a. Address  
370 17TH STREET SUITE 1700, DENVER CO 80202

3b. Phone No.  
303-623-2300

4. Location of Well (Footage, Sec., T., R., M., or Survey)  
See attached Exhibit "A"

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

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

13. Describe Proposed or Completed Operations (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 operations result in a multiple complete or recompletion in a new interval, a Form 3160-4 shall be filed on the day testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has

Effective Date: 5/1/2006

New Operator: EOG Resources, Inc.  
600 17th St., Suite 1000N  
Denver, CO 80202  
EOG Contact is Sheila Singer  
EOG Bond No. NM-2308

*Sheila Singer 7/11/06*  
Regulatory Supervisor

**SEE ATTACHMENT**

**RECEIVED**  
SEP 01 2006

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed) Douglas W. Jones  
Signature *Douglas W. Jones*  
Title DIV. OF OIL, GAS & MINING Attorney-in-Fact  
Date 7/11/06

**RETURNED TO OPERATOR**

Approved by *[Signature]*  
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Title \_\_\_\_\_ Date AUG 14 2006  
Office \_\_\_\_\_

**UDOGM**

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.

**EXHIBIT "A"**

Attached to BLM Form 3160-5 - Sundry Notices and Reports on Wells

**UINTAH COUNTY, UTAH**

Lease Serial Number	Encana's Well ID	API No.	Unit or CA Agreement Name	Well Name	Field and Pool	Twp	Rng	Sec	Qtr	Footages at Surface
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	765017	047-34131	BADLANDS UNIT UTU-60917A	NORTH CHAPITA FEDERAL 43-31	NATURAL BUTTES	8S	23E	31	NESE	1987 S 753 E
	765018	047-34126	BADLANDS UNIT UTU-60917A	NORTH CHAPITA FEDERAL 23-31	NATURAL BUTTES	8S	23E	31	NESW	2062 S 2006 W

### **Reason for Return**

The Sundry Notice for Change of Operator has been reviewed and returned for the following reasons.

1. Wells that are on Lease Basis Only will need to be submitted one well per Original Sundry with two copies by the New Operator (EOG) which will include the following Self-Certification Statement:

**"Please be advised that EOG Resources, Inc. is considered to be the operator of Well No. \_\_\_\_\_; \_\_\_ 1/4 \_\_\_ 1/4, Section \_\_\_, Township \_\_\_, Range \_\_\_; Lease \_\_\_\_\_; \_\_\_\_\_ County,; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by \_\_\_\_\_."**

2. The remainder of the wells are in the Badlands Unit (UTU-60917X), a Federal Unit. Therefore, EOG Resources, Inc. will need to submit a change in operator, in triplicate, for the unit to Teresa Thompson, Bureau of Land Management State Office, P O Box 45155, Salt Lake City, Utah 84145-0155, and receive approval to become the new operator.

Please be aware that EnCana Oil & Gas (USA), Inc. is still considered the unit operator and is held responsible for the wells until approval is given to EOG Resources, Inc. from the Utah State Office of the Bureau of Land Management.

If you have any questions concerning this matter, please contact Leslie Wilcken of this office at (435) 781-4497.