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MAY 20 2008

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | |
|--|--|
| 1a. Type of Work DRILL | 5. Lease Number USA SF-078357 Unit Reporting Number |
| 1b. Type of Well GAS | 6. If Indian, All. or Tribe |
| 2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP | 7. Unit Agreement Name RCVD MAR 23 '10 OIL CONS. DIV. DIST. 3 |
| 3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700 | 8. Farm or Lease Name Marshall 9. Well Number #2F |
| 4. Location of Well Surf: Unit G(SWNE), 1975' FNL & 1980' FEL Surf: Latitude 36.577120° N Longitude 107.773597° W | 10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) G Sec. 15, T27N, R9W API # 30-045-34721 |
| 14. Distance in Miles from Nearest Town 16 miles/Blanco | 12. County San Juan |
| 15. Distance from Proposed Location to Nearest Property or Lease Line 1975' | 13. State NM |
| 16. Acres in Lease 872.130 | 17. Acres Assigned to Well Basin DK - 320.00 (N/2) |
| 18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 670' from Marshall #3/PC | |
| 19. Proposed Depth 6822' | 20. Rotary or Cable Tools Rotary |
| 21. Elevations (DF, FT, GR, Etc.) 6160' GR | 22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS". |
| 23. Proposed Casing and Cementing Program See Operations Plan attached | |
| 24. Authorized by: <u>Sasha Spangler</u> Sasha Spangler (Regulatory Technician) | <u>5-20-08</u> Date |

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE 3/18/2010

Archaeological Report attached

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

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 presentations as to any matter within its jurisdiction.

Example Master Plan Type 1A

Bond Numbers NMB-000015 and NMB-000089

NOTIFY AZTEC OCD 24 HRS.

PRIOR TO CASING & CEMENT NMOCD

BLM'S APPROVAL OR ACCEPTANCE OF THIS
OPERATOR DOES NOT REMOVE THE LESSEE AND
OPERATOR FROM OBTAINING ANY OTHER
PERMITS REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS

MAR 31 2010

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505
Bureau of Land Management
Farmington Field Office

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 7 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|--|---|--|
| ¹ API Number 30-045- 34721 | ² Pool Code 71599 | ³ Pool Name BASIN DAKOTA |
| ⁴ Property Code 7289 | ⁵ Property Name MARSHALL | ⁶ Well Number 2F |
| ⁷ OGRID No. 14538 | ⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP | ⁹ Elevation 6160 |

¹⁰ SURFACE LOCATION

| | | | | | | | | | |
|--------------------|---------------|------------------|--------------|---------|-----------------------|---------------------------|-----------------------|------------------------|--------------------|
| UL or lot no. G | Section 15 | Township 27-N | Range 9-W | Lot Idn | Feet from the 1975 | North/South line NORTH | Feet from the 1980 | East/West line EAST | County SAN JUAN |
|--------------------|---------------|------------------|--------------|---------|-----------------------|---------------------------|-----------------------|------------------------|--------------------|

¹¹ Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|--------------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. G | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|--------------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|

| | | | |
|--|-------------------------------|----------------------------------|-------------------------|
| ¹² Dedicated Acres 320 N/2 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
|--|-------------------------------|----------------------------------|-------------------------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| | |
|--|---|
| ¹⁶ N 89°58'02" E S 89°54'00" W N/2 DEDICATED ACREAGE USA SF-078357 SECTION 15, T-27-N, R-9-W WELL FLAG NAD 83 LAT: 36.577120° N LONG: 107.773597° W NAD 27 LAT: 36°34.628092' N LONG: 107°46.378943' W 1975' 2634.2' (M) 2634.7' (R) 5290.6' (R) 5280.7' (M) 1980' | ¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature Sasha Spangler Printed Name Regulatory Technician Title and E-mail Address 01-07-08 Date |
| | ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: 12/12/07 Signature and Seal of Professional Surveyor: HENRY P. BROADHURST REGISTERED PROFESSIONAL SURVEYOR 11/2/08 Certificate Number: NM 11393 |

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

MARSHALL 2F

DEVELOPMENT

| | | | | | |
|--|-----------------------------|-----------------------------|--------------------------|--------------------|------------------|
| Lease: | | AFE #: WAN.CDR.7408 | | AFE \$: 613,902.94 | |
| Field Name: hBR_SAN JUAN | | Rig: Bearcat Rig 4 | | State: NM | County: SAN JUAN |
| Geologist: | | Phone: | | Geophysicist: | |
| Geoscientist: Riley, Brook | | Phone: +1 505-324-6108 | | Prod. Engineer: | |
| Res. Engineer: McKee, Cory J | | Phone: 505-326-9826 | | Proj. Field Lead: | |
| Primary Objective (Zones): | | | | | |
| Zone | Zone Name | | | | |
| FRR | BASIN DAKOTA (PRORATED GAS) | | | | |
| Location: Surface | | | | | |
| Datum Code: NAD 27 | | Straight Hole | | | |
| Latitude: 36.577112 | Longitude: -107.772982 | X: | Y: | Section: 15 | Range: 009W |
| Footage X: 1980 FEL | Footage Y: 1975 FNL | Elevation: 6160 | (FT) | Township: 027N | |
| Tolerance: | | | | | |
| Location Type: Year Round | | Start Date (Est.): 1/1/2009 | | Completion Date: | |
| | | | | Date In Operation: | |
| Formation Data: Assume KB = 6172 Units = FT | | | | | |
| Formation Call & Casing Points | Depth (TVD in Ft) | SS (Ft) | Depletion (Yes/No) | BHP (PSIG) | BHT |
| Surface Casing | 320 | 5852 | <input type="checkbox"/> | | |
| OJO ALAMO | 1247 | 4925 | <input type="checkbox"/> | | |
| KIRTLAND | 1358 | 4814 | <input type="checkbox"/> | | |
| FRUITLAND | 1781 | 4391 | <input type="checkbox"/> | | Possible Gas |
| PICTURED CLIFFS | 2162 | 4010 | <input type="checkbox"/> | | |
| LEWIS | 2290 | 3882 | <input type="checkbox"/> | | |
| HUERFANITO BENTONITE | 2720 | 3452 | <input type="checkbox"/> | | |
| CHACRA | 3064 | 3108 | <input type="checkbox"/> | | |
| MASSIVE CLIFF HOUSE | 3765 | 2407 | <input type="checkbox"/> | | |
| MENEFEE | 3810 | 2362 | <input type="checkbox"/> | | |
| MASSIVE POINT LOOKOUT | 4444 | 1728 | <input type="checkbox"/> | 621 | GAS |
| MANCOS | 4788 | 1384 | <input type="checkbox"/> | | |
| UPPER GALLUP | 5643 | 529 | <input type="checkbox"/> | | |
| GREENHORN | 6444 | -272 | <input type="checkbox"/> | | |
| GRANEROS | 6502 | -330 | <input type="checkbox"/> | | |
| TWO WELLS | 6548 | -376 | <input type="checkbox"/> | 1750 | Gas |
| PAGUATE | 6618 | -446 | <input type="checkbox"/> | | |
| CUBERO | 6683 | -511 | <input type="checkbox"/> | | |
| ENCINAL | 6741 | -569 | <input type="checkbox"/> | | |
| BURRO CANYON | 6817 | -645 | <input type="checkbox"/> | | |
| Total Depth | 6822 | -650 | <input type="checkbox"/> | | |
| 12 1/4" Hole. 8 5/8" 24 ppf, J-55, STC casing. Cement with 312 cuft. Circulate cement to surface. | | | | | |
| 7 7/8" Hole. 4 1/2", 11.6 ppf, N-80, LTC casing. Cement with 2004 cu-ft. Circulate cement to surface. Bottom perf. 40' above TD. | | | | | |
| Reference Wells: | | | | | |
| Reference Type | Well Name | Comments | | | |
| Production | Marshall 2E | | | | |
| Production | Marshall #2 | | | | |

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

MARSHALL 2F

DEVELOPMENT

| | | | |
|-------------------------|---|---------------------------------|---------------------------------------|
| Logging Program: | | | |
| Intermediate Logs: | <input type="checkbox"/> Log only if show | <input type="checkbox"/> GR/ILD | <input type="checkbox"/> Triple Combo |

| | | | | | | | |
|--|---------------------------------------|-----------------------------------|------------------------------|--------------------------------|------------------------------|------------------------------|---|
| TD Logs: | <input type="checkbox"/> Triple Combo | <input type="checkbox"/> Dipmeter | <input type="checkbox"/> RFT | <input type="checkbox"/> Sonic | <input type="checkbox"/> VSP | <input type="checkbox"/> TDT | <input checked="" type="checkbox"/> Other |
| GR_CBL. Shorten TD if Air Drilled. Bottom perf. 40' above TD if mud drilled. BRCN present. | | | | | | | |

| Additional Information: | | | | | |
|-------------------------|-------|-----------|---------|----------------|---------|
| Log Type | Stage | From (Ft) | To (Ft) | Tool Type/Name | Remarks |

COMPANY

Charge Code

WELL NAME

DUAL WELL

TRIPLE WELL

BURLINGTON

WAN.RFE.PD07.JA

MARSHALL # 2 F

DATE

1/4/2008

WELL NAME

WELL NAME

COORDINATES

SEC

TNSHP

RANGE

LATITUDE

LONGITUDE

NE 15

27 N

9 W

36.577120 N

107.773597 W

COUNTY

SAN JUAN

RECTIFIER

SOLAR

GROUND BED

240 V METER POLE

480 V METER POLE

D C CABLES

A C CABLES

PRIMARY POWER

DISTANCE TO POWER

UNDERGROUND

PUMPJACK

WATER PUMP

COMPRESSOR

RTU

SAMS

TANKS

SIZE

NEEDED

EXISTING

1 PHASE

3 PHASE

8

200'

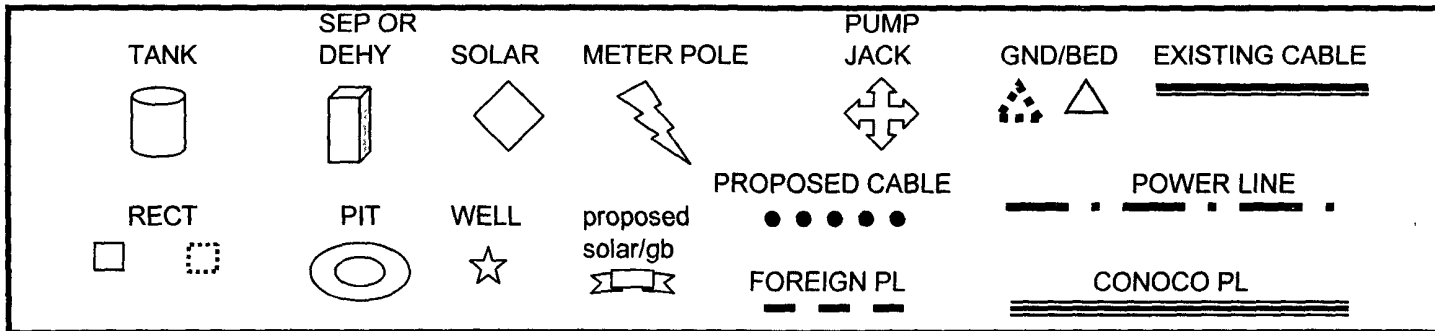
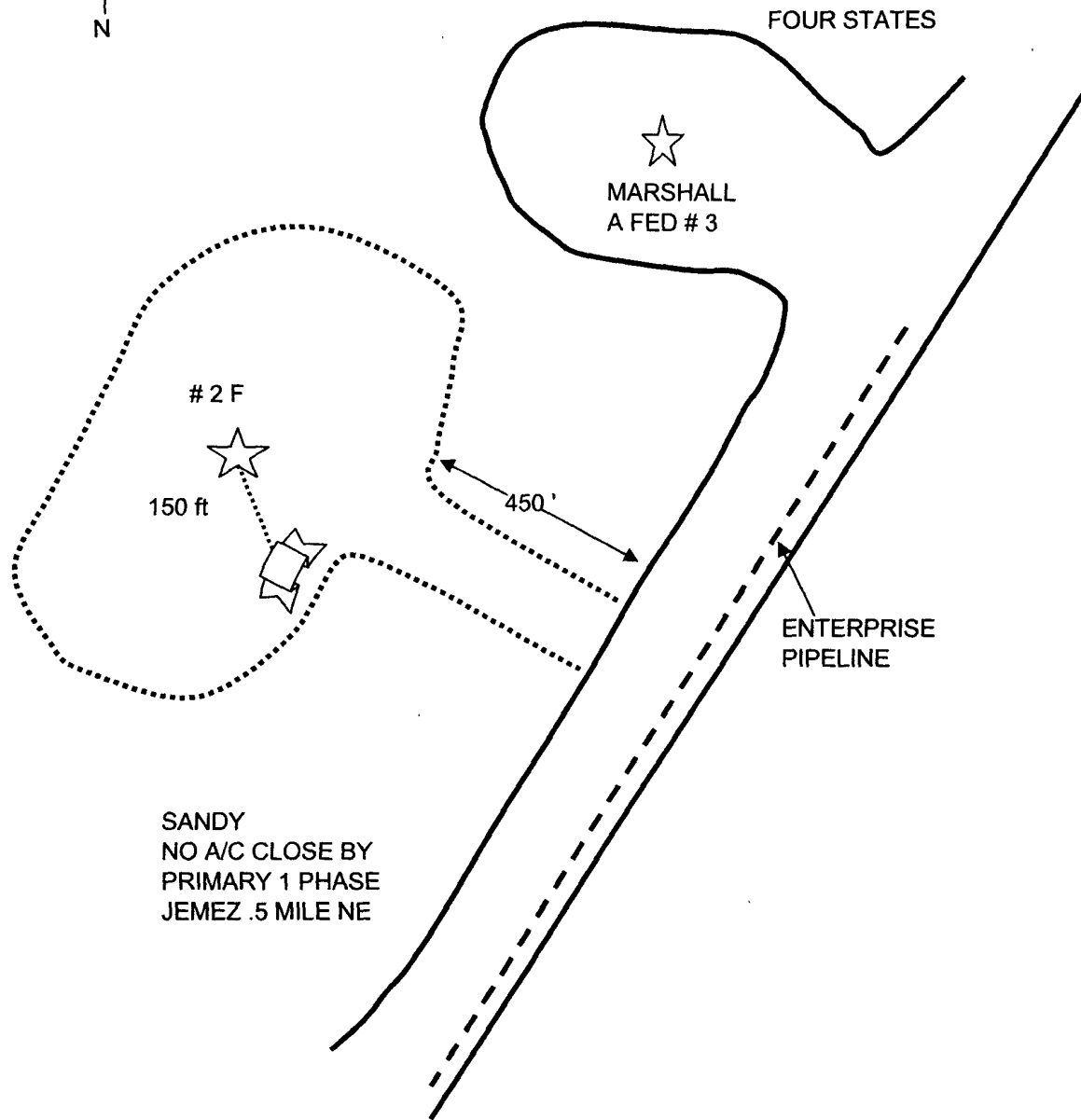
JEMEZ

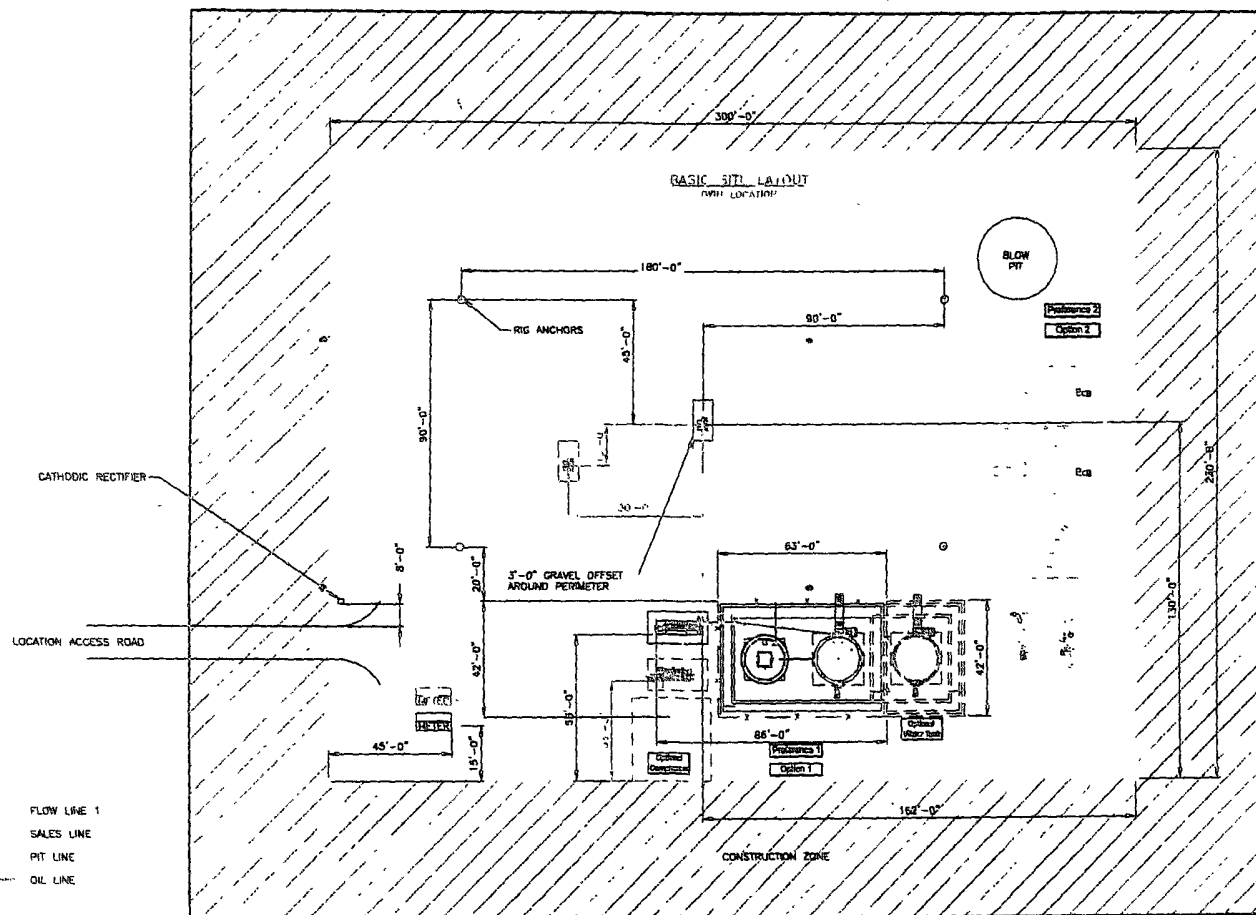
.5 MILE

COMMENTS

Install solar system - sandy area -

| | |
|-----------|-----------------------|
| WELL NAME | MARSHALL # 2 F |
|-----------|-----------------------|





SHEET 1 OF 5

[illegible]

BURLINGTON RESOURCES OIL AND GAS COMPANY LP

**MARSHALL 2F
1975' FNL, 1980' FEL
SECTION 15, T-27-N, R-9-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
NAD 83 LAT.: 36.577120°N LONG.: 107.773597° W
ELEV.: 6160 NAVD88
NEW ACCESS ROAD 423.8'**

DRIVING DIRECTIONS TO BROG MARSHALL 2F

DRIVING DIRECTIONS START FROM BLANCO, N.M. ON HWY 64.

- GO 1.3 MILES EAST ON HWY 64 TO MILE POST 74.
- TURN RIGHT ON C.R. 4450 (LARGO CANYON).
- GO 4.2 MILES AND CROSS LARGO WASH AT "5 MILE BRIDGE".
- GO 3.1 MILES SOUTHERLY ON C.R. 4450. TURN RIGHT ON C.R. 7007.
- GO 5.2 MILES SOUTH ON C.R. 7007. TURN RIGHT AT C.R. 7225.
- GO 0.7 MILES ON C.R. 7225. STAY LEFT, AT FORK IN ROAD.
- GO 1.2 MILES EASTERLY ON C.R. 7225 AND TURN LEFT.
- GO 0.2 MILES SOUTH TO THE BEGINNING OF 423.8 FT. NEW ACCESS, ON RIGHT (WEST) SIDE OF ROAD.

BURLINGTON RESOURCES OIL AND GAS COMPANY LP
MARSHALL 2F

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