

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 18 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078356-A Unit Reporting Number
1b. Type of Well GAS	If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name DK-NMNM 78394B Huerfanito Unit MV-NMNM 78394C
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name
4. Location of Well Surface: Unit C (NENW), 710' FNL & 1385' FWL Surface: Latitude: 36.551507° N (NAD83) Longitude: 107.762233° W	9. Well Number 85M
10. Field, Pool, Wildcat Blanco MV / Basin DK	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 26, T27N, R9W API # 30-045-35287
14. Distance in Miles from Nearest Town 32.3 miles from Bloomfield, NM	12. County San Juan
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	13. State NM
16. Acres in Lease 320.00 acres	17. Acres Assigned to Well MV 320.00 acres W/2 DK 320.00 acres W/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 2221' from (BR) Huerfanito Unit 89 (DK)	20. Rotary or Cable Tools Rotary
19. Proposed Depth 6800' <small>This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4</small>	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
21. Elevations (DF, FT, GR, Etc.) 6318' GL	
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Dollie L. Busse</u> Dollie L. Busse (Staff Regulatory Tech)	Date <u>May 17, 2011</u>

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AFM

DATE 7/5/11

Archaeological Report attached

A gas recovery unit may or may not be used on this location.

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 3 Bond Numbers NMB-000015 and NMB-000089

NOTIFY AZTEC OCD 24 HRS. AUG 01 2011

PRIOR TO CASING & CEMENT NMOCD

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

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 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

RECEIVED

Form C-102

Revised October 12, 2005

MA Submit to Appropriate District Office
10 2011 State Lease - 4 Copies
Fee Lease - 3 Copies

Farmington Field Office
Bureau of Land Management
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35287	² Pool Code 71599/72319	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 7138	⁵ Property Name HUERFANITO UNIT	⁶ Well Number 85M
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6318'

¹⁰ Surface Location

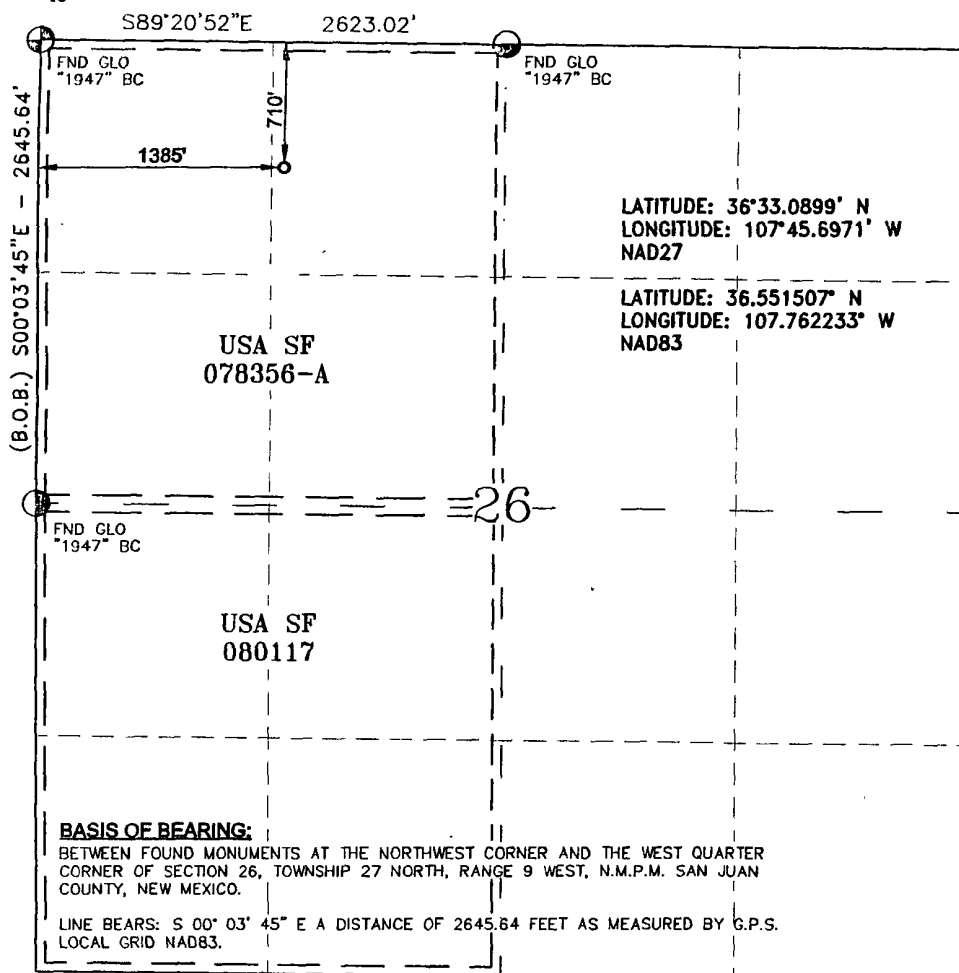
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	26	27-N	9-W		710	NORTH	1385	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres DK 320.00 ACRES W/2 MV 320.00 ACRES W/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



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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

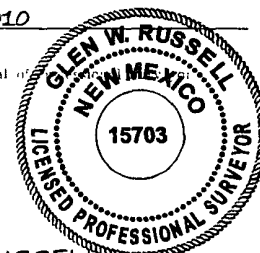
Brandie Blakley
Signature
Brandie Blakley 06-18-10
Printed Name

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.

JUNE 9, 2010
Date of Survey

Signature and Seal of



GLEN W. RUSSELL
Certificate Number

15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANITO UNIT 85M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0044				AFE \$: 0.00	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: SAN JUAN		API #:
Geologist:	Phone:	Geophysicist:		Phone:			
Geoscientist:	Phone:	Prod. Engineer:		Phone:			
Res. Engineer:	Phone:	Proj. Field Lead:		Phone:			
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface		Datum Code: NAD 27				Straight Hole	
Latitude: 36.551498	Longitude: -107.761619	X:	Y:	Section: 26	Range: 009W		
Footage X: 1385 FWL	Footage Y: 710 FNL	Elevation: 6318	(FT)	Township: 027N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6333 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6133		<input type="checkbox"/>			12-1/4" hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
OJO ALAMO	1340	4993		<input type="checkbox"/>			
KIRTLAND	1469	4864		<input type="checkbox"/>			
FRUITLAND	1839	4494		<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	2220	4113		<input type="checkbox"/>			
LEWIS	2311	4022		<input type="checkbox"/>			
HUERFANITO BENTONITE	2711	3622		<input type="checkbox"/>			
CHACRA	3123	3210		<input type="checkbox"/>			
UPPER CLIFF HOUSE	3587	2746		<input type="checkbox"/>			Cliffhouse is wet
MASSIVE CLIFF HOUSE	3812	2521		<input type="checkbox"/>			
MENEFEE	3870	2463		<input type="checkbox"/>			Est. Top Perf - 4220 (2113)
Intermediate Casing	4020	2313		<input type="checkbox"/>		131	8-3/4" hole, 7" 20/23 ppf J-55 STC/LTC casing. Cement with 906 cuft. Circulate cement to surface.
POINT LOOKOUT	4521	1812		<input type="checkbox"/>		829	GAS
MANCOS	4903	1430		<input type="checkbox"/>			
UPPER GALLUP	5702	631		<input type="checkbox"/>			
GREENHORN	6511	-178		<input type="checkbox"/>			
GRANEROS	6563	-230		<input type="checkbox"/>			
TWO WELLS	6609	-276		<input type="checkbox"/>		2114	Gas
PAGUATE	6671	-338		<input type="checkbox"/>			
UPPER CUBERO	6731	-398		<input type="checkbox"/>			
LOWER CUBERO	6735	-402		<input type="checkbox"/>			Est. Btm Perf - 6780 (- 447) based on offset wells
ENCINAL	6800	-467		<input type="checkbox"/>			TD - T/ENCN
Total Depth	6800	-467		<input type="checkbox"/>		188	6-1/4" hole, 4-1/2" 11.6 ppf, L-80 LTC casing. Cement with 382 cuft. Circulate cement to a minimum 100' inside previous casing string.
BURRO CANYON	6882	-549		<input type="checkbox"/>			

PROJECT PROPOSAL - New Drill / Sidetrack

HUERFANITO UNIT 85M

DEVELOPMENT

MORRISON 6917 -584 ☐

Reference Wells:

Reference Type	Well Name	Comments
Production	Huerfanito Unit 105	27N 9W 27 NE NE
Production	Huerfanito Unit 89	27N 9W 23 NW SW
Production	Huerfanito Unit 85	27N 9W 26 SE SW

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

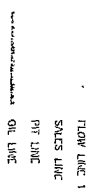
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Cased Hole GR/CBL.

Mudlog the Gallup to TD and mudlogger will call TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
----------	-------	-----------	---------	----------------	---------



Directions from the Intersection of Hwy 550 and Hwy 64
in Bloomfield, NM

To:

Burlington Resources Oil & Gas Company LP

HUVERFANITO UNIT #85M

710' FNL & 1385' FWL,

Section 26, T27N, R9W, N.M.P.M., San Juan County,
New Mexico

Latitude: 36° 33' 05.427" N

Longitude: 107° 45' 44.040" W

Nad 1983

From the Intersection of Hwy 550 and Hwy 64,
Take Hwy 550 (south) for 15.8 miles to CR 7225,
Turn left (east) on CR 7225 for 4.5 miles,
Turn right (easterly) for 4.2 miles,
Turn right (southerly) 0.1 miles,
Turn left (easterly) 2.4 miles,
Turn left (northerly) on CR 7007 for 1.9 miles,
Turn left (westerly) 0.7 miles,
Turn left (southwesterly) 0.3 miles
Through well location and continue westerly 1.0 miles,
Stay left (northwesterly) @ y-intersection for 0.3 miles,
Turn right (northeast) 0.8 miles,
To beginning of new access on right side of road,
Turn right and proceed 333.77' to the newly staked location,
Twinned with the proposed well pad,
HUVERFANITO UNIT #176S.