

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 04 2009

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-077833 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe RCVD DEC 22 '09
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name 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 Mansfield 9. Well Number 2M
4. Location of Well Surf: Unit C (NENW), 774' FNL & 1608' FWL Bottomhole: Unit C (NENW), 710' FNL & 964' FWL Surf: Latitude: 36.7880215° N (NAD83) Longitude: 107.8215940° W Bottomhole: Latitude: 36.7882112° N (NAD83) Longitude: 107.8237914° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) C Sec. 30, T30N, R9W API # 30-045-35059
14. Distance in Miles from Nearest Town 15 miles / Aztec	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	
16. Acres in Lease 527.840	17. Acres Assigned to Well 310.56 - MV/DK
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 924' from Florance 93 (PC)	
19. Proposed Depth 7326' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6156' GL	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>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date <u>12/4/2009</u>

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

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 3

Hold C104

for Directional Survey
and "As Drilled" plat

Bond Numbers NMB-000015 and NMB-000089

NMOCD

JAN 04 2010

NOTIFY AZTEC OGD 24 HRS
PRIOR TO CASING & CEMENT

BLM'S APPROVAL OR ACCEPTANCE OF THIS
ACTS AS AN AFFIRMATIVE STATEMENT BY 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 W. 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, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, N.M. 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35059	² Pool Code 72319 / 71599	³ Pool Name BASIN BLANCO MESA VERDE / DAKOTA
⁴ Property Code 7284	⁵ Property Name MANSFIELD	⁶ Well Number 2M
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6156

¹⁰ Surface Location

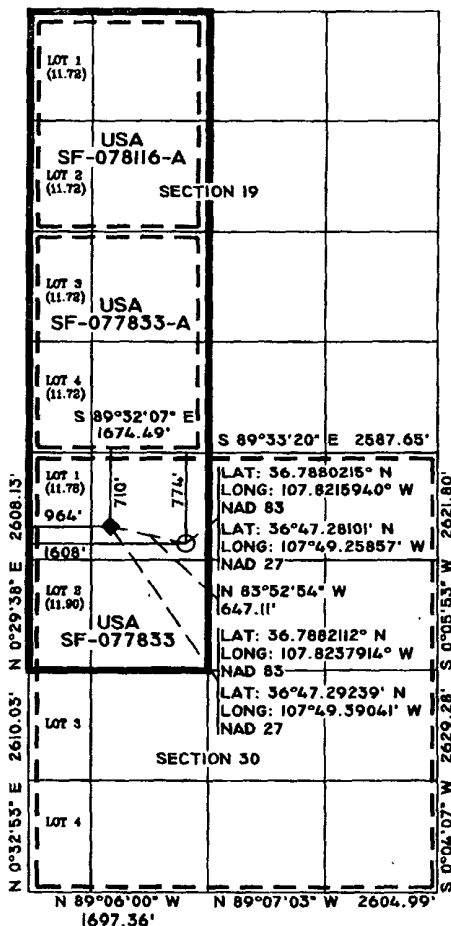
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	30 N	9 W		774	NORTH	1608	WEST	SAN JUAN

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
C	30	30 N	9 W		710	NORTH	964	WEST	SAN JUAN

¹² Dedicated Acres 310.56	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-3562 R-35 (NA) R-2046 (NA)
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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



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.

Crystal Tafoya 8/7/09
Signature Date
Crystal Tafoya 8-7-09
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.

7/29/09

Date of Survey

Signature and Seal of Professional Surveyor



17078
Certificate Number

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

MANSFIELD 2M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9071		AFE \$: 1,539,023.38	
Field Name: SAN JUAN		Rig: H&P Rig 282		State: NM	County: SAN JUAN
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					
Latitude: 36.788017	Longitude: -107.820976	X:	Y:	Section: 30	Range: 009W
Footage X: 1608 FWL	Footage Y: 774 FNL	Elevation: 6156	(FT)	Township: 030N	
Tolerance:					
Location: Bottom Hole Datum Code: NAD 27					
Latitude: 36.788206	Longitude: -107.823174	X:	Y:	Section: 30	Range: 009W
Footage X: 964 FWL	Footage Y: 710 FNL	Elevation:	(FT)	Township: 030N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2010		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
NACIMIENTO	74	6098	☐		
Surface Casing	201	5971	☐		
OJO ALAMO	1524	4648	☐		
KIRTLAND	1670	4502	☐		
FRUITLAND	2242	3930	☐		Possible Gas
PICTURED CLIFFS	2787	3385	☐		
LEWIS	2937	3235	☐		
Intermediate Casing	3037	3135	☐		
HUERFANITO BENTONITE	3530	2642	☐		
CHACRA	3782	2390	☐		
MASSIVE CLIFF HOUSE	4447	1725	☐	348	Gas
MENEFEE	4610	1562	☐		
POINT LOOKOUT	5064	1108	☐		
MANCOS	5397	775	☐		
UPPER GALLUP	6297	-125	☐		
GREENHORN	7037	-865	☐		
GRANEROS	7093	-921	☐		
TWO WELLS	7139	-967	☐	2260	Gas
PAGUATE	7232	-1060	☐		
CUBERO	7275	-1103	☐		
Total Depth	7326	-1154	☐		

6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 584 cuft. Circulate cement a minimum of 100' inside the previous casing string. TD is ~51' below the T/Encinal.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

MANSFIELD 2M

DEVELOPMENT

ENCINAL	7338	-1166	☐
Reference Wells:			
Reference Type	Well Name	Comments	

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT ☒	Other
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Mud log from ~100' above the Greenhorn to TD. Mud loggers will pick final TD. Est bottom perf is ~20' above the est TD.

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

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Mansfield #2M
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6172 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6172 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Mansfield #2M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Greenhorn									
7,190 5	0 00	0 00	7,093 0	69 1	-643 5	647 2	0 00	0 00	0 00
Graneros									
7,200 0	0 00	0 00	7,102 5	69 1	-643 5	647 2	0 00	0 00	0 00
7,236 5	0 00	0 00	7,139 0	69 1	-643 5	647 2	0 00	0 00	0 00
Two Wells									
7,300 0	0 00	0 00	7,202 5	69 1	-643 5	647 2	0 00	0 00	0 00
7,329 5	0 00	0 00	7,232 0	69 1	-643 5	647 2	0 00	0 00	0 00
Paguate									
7,372 5	0 00	0 00	7,275 0	69 1	-643 5	647 2	0 00	0 00	0 00
Cubero									
7,400 0	0 00	0 00	7,302 5	69 1	-643 5	647 2	0 00	0 00	0 00
7,423 5	0 00	0 00	7,326 0	69 1	-643 5	647 2	0 00	0 00	0 00
Production Casing - Mansfield #2M - PCP									

Targets

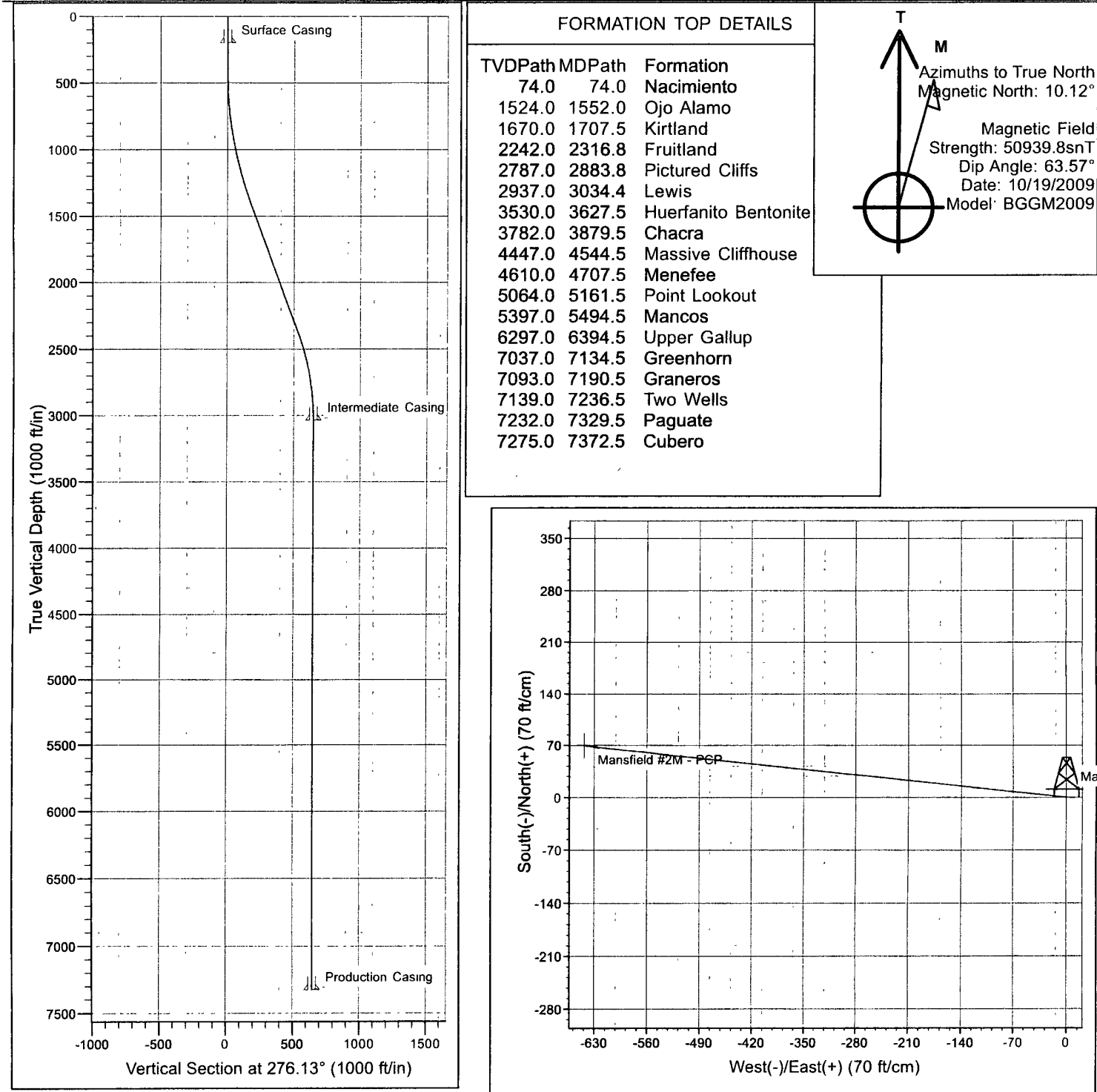
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Mansfield #2M - PCP	- plan hits target center - Point	0 00	0 00	7,326 0	69 1	-643 5	2,106,165 66	502,975.02	36° 47' 17 544 N	107° 49' 23 425 W
Mansfield #2M - ICP	- plan hits target center - Point	0 00	0 00	3,037.0	69 1	-643 5	2,106,165 62	502,975.04	36° 47' 17.543 N	107° 49' 23 425 W

1,707 5	1,670 0	Kirtland	0 00
74 0	74 0	Nacimiento	0 00
7,134 5	7,037 0	Greenhorn	0 00
7,329 5	7,232 0	Paguate	0 00
6,394 5	6,297 0	Upper Gallup	0 00
1,552 0	1,524 0	Ojo Alamo	0 00
2,883 8	2,787 0	Pictured Cliffs	0 00
3,627 5	3,530 0	Huerfano Bentonite	0 00
5,161 5	5,064 0	Point Lookout	0 00
7,236 5	7,139 0	Two Wells	0 00
4,544 5	4,447 0	Massive Cliffhouse	0 00
4,707 5	4,610 0	Menefee	0 00
5,494 5	5,397 0	Mancos	0 00
7,190 5	7,093 0	Graneros	0 00
7,372 5	7,275 0	Cubero	0 00
3,879 5	3,782 0	Chacra	0 00
3,034 4	2,937 0	Lewis	0 00
2,316 8	2,242 0	Fruitland	0 00

REFERENCE INFORMATION RKB @ 6172.0ft (Original Well Elev) Ground Elevation 6156.0 Reference Lat: 36° 47' 16.861 N Reference Long: 107° 49' 15.514 W	Project: San Juan Basin - New Mexico Wells Site: Other Named Wells Well: Mansfield #2M Wellbore: Principal Wellbore Design: Plan #1	
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SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	425.0	0.00	0.00	425.0	0.0	0.0	0.00	0.00	0.0	
3	1432.6	20.15	276.13	1411.9	18.7	-174.4	2.00	276.13	175.4	
4	2462.8	20.15	276.13	2379.0	56.6	-527.2	0.00	0.00	530.3	
5	3134.5	0.00	0.00	3037.0	69.1	-643.5	3.00	180.00	647.2	Mansfield #2M - ICP
6	7423.5	0.00	0.00	7326.0	69.1	-643.5	0.00	0.00	647.2	Mansfield #2M - PCP



BURLINGTON RESOURCES OIL & GAS COMPANY LP

MANSFIELD 2M

774' FNL & 1608' FWL (SURFACE LOCATION)

710' FNL & 964' FWL (BOTTOM HOLE LOCATION)

LATITUDE: 36.7880215° N

LONGITUDE: 107.8215940° W

NAD 83

SECTION 30, T-30-N, R-9-W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

FROM THE INTERSECTION OF U.S. HIGHWAY 550 AND
NEW MEXICO HIGHWAY 516 IN AZTEC, NEW MEXICO.

TRAVEL NORTHEASTERLY 1.0 MILE ON U.S. HIGHWAY 550.
TURN RIGHT ONTO NM HIGHWAY 173 AND TRAVEL EASTERLY 11.3 MILES.
TURN RIGHT ONTO A DIRT ROAD AND TRAVEL
SOUTHEASTERLY 0.8 MILE.
TURN RIGHT AT A TEE INTERSECTION & TRAVEL
WESTERLY 1.4 MILES.
TURN RIGHT AT TEE INTERSECTION & TRAVEL
SOUTHWESTERLY 0.3 MILE TO PROPOSED ACCESS ROUTE TO
MANSFIELD 2M WELL LOCATION.