

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 30 2009

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078120-A 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 DEC 14'09 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 Newberry 9. Well Number 8B
4. Location of Well Surf: Unit O (SWSE), 995' FSL & 1667' FEL Bottomhole: Unit J (NWSE), 1975' FSL & 1930' FEL Surf: Latitude: 36.9088928° N (NAD83) Longitude: 108.0978770° W Bottomhole: Latitude: 36.9116153° N (NAD83) Longitude: 108.0986938° W	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 9, T31N, R12W API # 30-45-35048
14. Distance in Miles from Nearest Town 12 miles - Aztec	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 995'	
16. Acres in Lease 800.380	17. Acres Assigned to Well 320.00 (E/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 72' from Newberry 8A (MV)	
19. Proposed Depth 5413' 5413' TVD 5413' MD	H ₂ S POTENTIAL EXIST 20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6201' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	12/01/2009 Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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

Bond Numbers NMB-000015 and NMB-000089

Hold C104
for Directional Survey
and "As Drilled" plat

NMOCDB

JAN 04 2010

NOTIFY AZTEC OGD 24 HRS.
PRIOR TO CASING & CEMENT

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

RECEIVED

NOV 30 2005

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. of Land Management
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

*API Number 30-045 - 35648	*Pool Code 72319	*Pool Name Blanco MESA VERDE
*Property Code 7360	*Property Name NEWBERRY	*Well Number 8B
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	*Elevation 6201

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
0	9	31 N	12 W		995	SOUTH	1667	EAST	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
J	9	31 N	12 W		1975	SOUTH	1930	EAST	SAN JUAN

*Dedicated Acres 320.00 (E/2)	Joint or Infill	Consolidation Code	*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 S 88°35'34" E 2641.84' ○ = SURFACE LOCATION ● = BOTTOM HOLE LOCATION USA SF-078146 NAD 83 LAT: 36.9116153° N LONG: 108.0986938° W NAD 27 LAT: 36°54.69680' N LONG: 108°05.88397' W NAD 83 LAT: 36.9088928° N LONG: 108.0978770° W NAD 27 LAT: 36°54.53345' N LONG: 108°05.83496' W N 87°30'47" W 2637.70'	SECTION 9 NOTE: BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83. 1975' 995' N 13°23'09" W 1019.53' 1667' N 87°27'23" W 2638.77'	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: <i>Tracey N. Monroe</i> Date: 7/18/09 Printed Name: Tracey N. Monroe 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. 6/11/09 Date of Survey Signature and Seal of Surveyor MARSHALL W. LINDEN NEW MEXICO LICENSED PROFESSIONAL SURVEYOR 17078 17078 Certificate Number
--	---	---

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

NEWBERRY 8B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9300		AFE \$: 1,437,958.38	
Field Name: SAN JUAN		Rig: H&P Rig 282		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	

Primary Objective (Zones):

Zone	Zone Name
RON	BLANCO MESAVERDE (PRORATED GAS)

RECEIVED

DEC 07 2009

Bureau of Land Management
Farmington Field Office

Location: Surface Datum Code: NAD 27 Directional

Latitude: 36.908891	Longitude: -108.097249	X:	Y:	Section: 09	Range: 012W
Footage X: 1667 FEL	Footage Y: 995 FSL	Elevation: 6201	(FT)	Township: 031N	

Tolerance:

Location: Bottom Hole Datum Code: NAD 27 Directional

Latitude: 36.911613	Longitude: -108.098066	X:	Y:	Section: 09	Range: 012W
Footage X: 1930 FEL	Footage Y: 1975 FSL	Elevation:	(FT)	Township: 031N	

Tolerance:

Location Type: Year Round	Start Date (Est.): 1/1/2010	Completion Date:	Date In Operation:
---------------------------	-----------------------------	------------------	--------------------

Formation Data: Assume KB = 6216	Units = FT
----------------------------------	------------

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6016	☐			12.25" hole 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 119 cuft. Circulate cement to surface. Possible Gas
FRUITLAND	1996	4220	☐			
PICTURED CLIFFS	2646	3570	☐			
LEWIS	2794	3422	☐			
HUERFANITO BENTONITE	3380	2836	☐			
CHACRA	3782	2434	☐			
UPPER CLIFF HOUSE	4206	2010	☐			Est. Top Perf - 4207 (2008)
MASSIVE CLIFF HOUSE	4314	1902	☐			
MENEFEE	4469	1747	☐			
Intermediate Casing	4619	1597	☐			8-3/4" hole. 7" 23 ppf, J-55, LTC Casing. Cement with 1193 cuft. Circulate cement to surface.
POINT LOOKOUT	5003	1213	☐	478		GAS; Est. BtmPerf - 5152 (1063) TD - 100' below Btm Perf
Total Depth	5253	963	☐			6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80 LTC casing. Cement with 100 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	Chokecherry Canyon 1	31N 12W 9 SE SE
Production	Newberry-A 2	31N 12W 9 NE SW
Production	Newberry 8-A	31N 12W 9 NE SW SE
Production	Chokecherry Canyon 1M	31N 12W 9 S2 SE NE

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

NEWBERRY 8B

DEVELOPMENT

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

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 Newberry #8B
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6216.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6216.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Newberry #8B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,167.1	5,003.0	Point Lookout		0.00		
4,633.0	4,469.0	Menefee		0.00		
2,867.7	2,794.0	Lewis		0.00		
3,492.2	3,380.0	Huerfano Bentonite		0.00		
3,920.6	3,782.0	Chacra		0.00		
4,366.8	4,206.0	Upper Cliffhouse		0.00		
2,017.2	1,996.0	Fruitland		0.00		
4,476.8	4,314.0	Mass Cliffhouse		0.00		
2,710.0	2,646.0	Pictured Cliffs		0.00		

REFERENCE INFORMATION

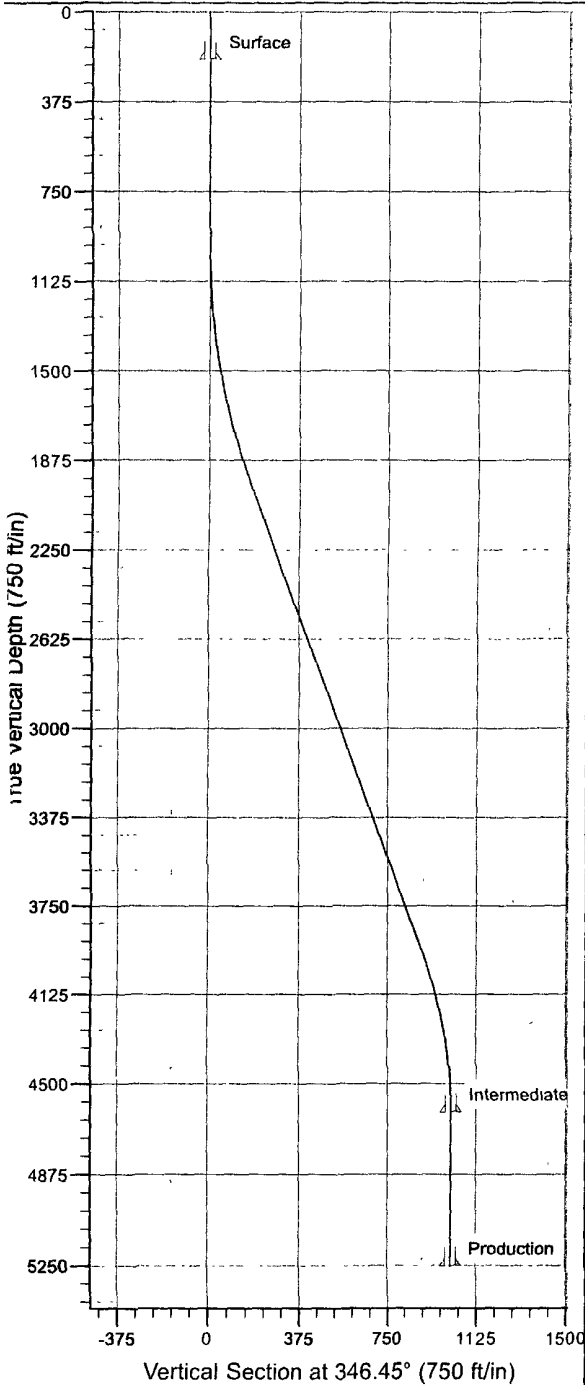
RKB @ 6216.0ft (Original Well Elev)
 Ground Elevation 6201.0
 Reference Lat: 36° 54' 32.007 N
 Reference Long: 108° 5' 50.098 W

Project: San Juan Basin - New Mexico Wells
 Site: Other Named Wells
 Well: Newberry #8B
 Wellbore: Principal Wellbore
 Design: Plan #1



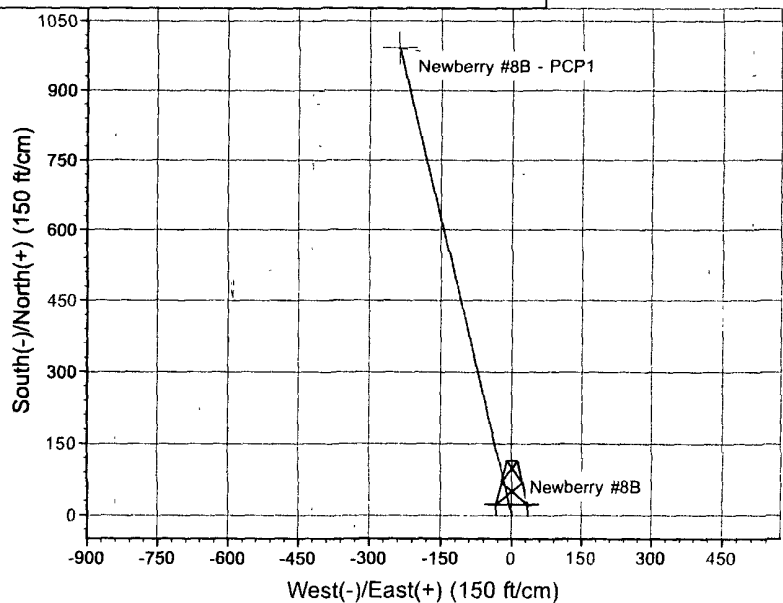
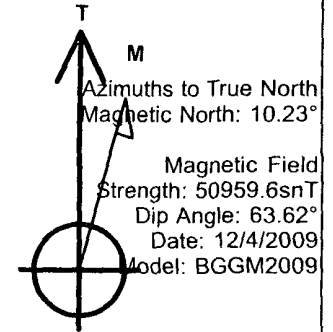
SECTION DETAILS

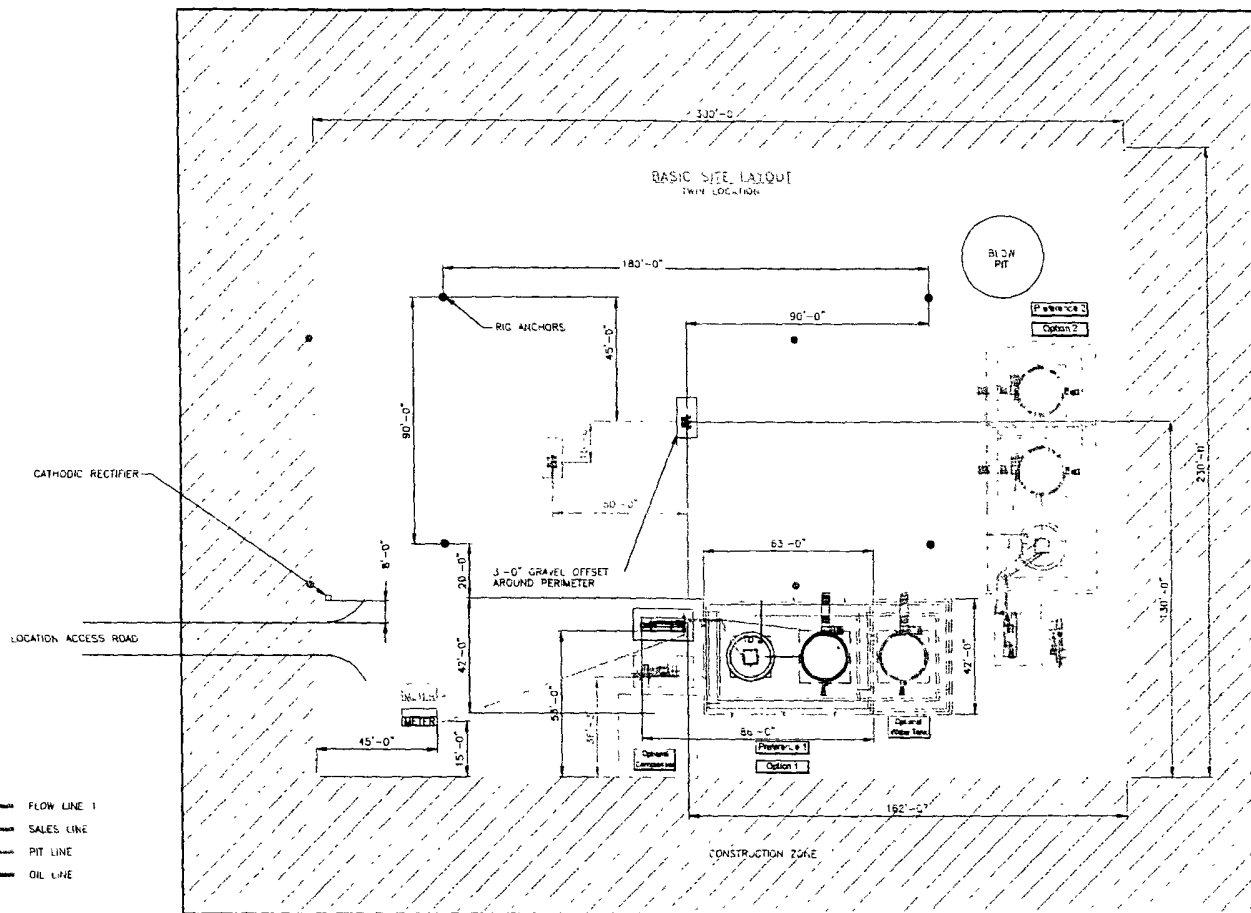
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	2011.3	20.23	346.45	1990.4	171.7	-41.4	2.00	346.45	176.6	
4	4109.0	20.23	346.45	3958.7	876.7	-211.2	0.00	0.00	901.8	
5	4783.1	0.00	0.00	4619.0	991.2	-238.8	3.00	180.00	1019.6	Newberry #8B - ICP1
6	5417.1	0.00	0.00	5253.0	991.2	-238.8	0.00	0.00	1019.6	Newberry #8B - PCP1



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
1996.0	2017.2	Fruitland
2646.0	2710.0	Pictured Cliffs
2794.0	2867.7	Lewis
3380.0	3492.2	Huerfano Bentonite
3782.0	3920.6	Chacra
4206.0	4366.8	Upper Cliffhouse
4314.0	4476.8	Mass. Cliffhouse
4469.0	4633.0	Menefee
5003.0	5167.1	Point Lookout





SEE SHEET 3 & 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPE IS TO BE BURIED A MIN. OF 2'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		CONOCO PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										DISCIPLINE	REVIEWED	DATE	NO.	DESCRIPTION				
										PROCESS								
										MECHANICAL								
										PAVING								
										ELECTRICAL								
										I & C								
										CIVIL/STRUCTURAL								
										PRODUCT								
DESCRIPTION										DATE	BY	CHK'D	ENG	DISC	PLN	SAN JUAN BUSINESS UNIT		
																CLIENT AREA	ISSUE DATE	
																SCALE: NONE	CREATION DATE 8/24/07	
																DWG NO.		SHEET NO.
																HP3PHASE-REV1		1 OF 5

BURLINGTON RESOURCES OIL & GAS COMPANY LP

NEWBERRY 8B

995' FSL & 1667' FEL (SURFACE LOCATION)

1975' FSL & 1930' FEL (BOTTOM HOLE LOCATION)

LATITUDE: 36.9088928° N

LONGITUDE: 108.0978770° W

NAD 83

SECTION 9, T-31-N, R-12-W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

FROM THE INTERSECTION OF N.M. HIGHWAY 516 AND
NORTH LIGHT PLANT ROAD IN AZTEC, NEW MEXICO.

TRAVEL NORTHERLY 9.7 MILES ON NORTH LIGHT PLANT ROAD.
TURN LEFT ONTO DIRT ROAD WITH UNLOCKED GATE AND TRAVEL
SOUTHERLY 1.0 MILE.
TURN LEFT AT A "Y" INTERSECTION AND TRAVEL EASTERLY 0.4 MILE
TOWARD NEWBERRY LS 4 WELL LOCATION.
KEEP TO THE RIGHT AT THE "Y" INTERSECTION WITHIN THE WELL
LOCATION AND CONTINUE EASTERLY 0.6 MILE ON DIRT ROAD
UNTIL REACHING PROPOSED NEWBERRY 8B WELL LOCATION.