

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUN 24 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management
Farmington Field Office

1a. Type of Work DRILL	5. Lease Number NM-03195-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 JUL 15 '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 Sullivan 9. Well Number 1N
4. Location of Well Surf: Unit G(SWNE), 1650' FNL & 2597' FEL BHL: Unit B(NWNE), 710' FNL & 2065' FEL Surface: Latitude: 36.828873° N (NAD83) Longitude: 107.924458° W Bottomhole: Latitude: 36.831425° N (NAD83) Longitude: 107.922558° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 7, T30N, R10W API # 30-045-35177
14. Distance in Miles from Nearest Town 6.6 miles from Aztec, NM	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	
16. Acres in Lease 2.980	17. Acres Assigned to Well 319.67
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 71.6' from Sullivan 1B - MV/DK	
19. Proposed Depth 7344'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6186' GL This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	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>Dollie L. Busse</u> Dollie L. Busse (Staff Regulatory Tech)	<u>June 22, 2010</u> Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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. THIS NOTICE DOES NOT RELIEVE THE LESSEE AND ANY OTHER

Example Master Plan Type 3

Bond Numbers NMB-000015 and NMB-000089

AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

JUL 19 2010

Hold C104
for Directional Survey
and "As Drilled" plat

NMOCD

NOTIFY AZTEC OGD 24 HRS.
PRIOR TO CASING & CEMENT

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

RECEIVED

JUN 24 2010

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

Bureau of Land Management
Farmington Field Office
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35177		² Pool Code 72319 / 71599		³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA					
⁴ Property Code 7555		⁵ Property Name SULLIVAN						⁶ Well Number 1N	
⁷ OGRID No. 14538		⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP						⁹ Elevation 6186	
¹⁰ SURFACE LOCATION									
UL or lot no. G	Section 7	Township 30-N	Range 10-W	Lot Idn	Feet from the 1650	North/South line NORTH	Feet from the 2597	East/West line EAST	County SAN JUAN
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. B	Section 7	Township 30-N	Range 10-W	Lot Idn	Feet from the 710	North/South line NORTH	Feet from the 2065	East/West line EAST	County SAN JUAN
¹² Dedicated Acres 319.67 N/2		¹³ Joint or Infill - MV/DK		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 BOTTOM HOLE NAD 83 LAT: 36.831425° N LONG: 107.922558° W LOT 8 NAD 27 LAT: 36°49.885240' N LONG: 107°55.316200' W LOT 7 WELL FLAG NAD 83 LAT: 36.828873° N LONG: 107.924458° W LOT 9 NAD 27 LAT: 36°49.732132' N LONG: 107°55.430203' W LOT 10				BLM 1967 (TYP.) 710' 1650' N 30°57'28" E 1082.7'				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 Dollie L. Busse Printed Name Dollie L. Busse Title and E-mail Address Date 9/22/10			
LOT 16 LOT 15 LOT 14 LOT 13				SECTION 7, T-30-N, R-10-W LOT 11 N/2 DEDICATED USA NM-03195-A LOT 12				2639.3' (M) 2638.7' (R) 2065' 2664.6' (M) 2665.7' (R) N 01°30'32" E N 01°27' E			
BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION. LOT 17 LOT 18				LOT 19 LOT 20				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: 12/09/09 Signature and Seal of Professional Surveyor: HENRY P. BROWNHURST NEW MEXICO PROFESSIONAL SURV. 2/19/10 Certificate Number: NM 11393			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SULLIVAN 1N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9388		AFE \$: 972,459.13	
Field Name: SAN JUAN		Rig: Aztec Rig 711		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)				
FRR	BASIN DAKOTA (PRORATED GAS)				
Location: Surface Datum Code: NAD 27 Directional					
Latitude: 36.828869	Longitude: -107.923837	X:	Y:	Section: 07	Range: 010W
Footage X: 2597 FEL	Footage Y: 1650 FNL	Elevation: 6186	(FT)	Township: 030N	
Tolerance:					
Location: Bottom Hole Datum Code: NAD 27 Directional					
Latitude: 36.831421	Longitude: -107.921937	X:	Y:	Section: 07	Range: 010W
Footage X: 2065 FEL	Footage Y: 710 FNL	Elevation:	(FT)	Township: 030N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2012		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 6202 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
NACIMIENTO	14	6188		☐	
Surface Casing	200	6002		☐	12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
OJO ALAMO	1364	4838		☐	
KIRTLAND	1474	4728		☐	
FRUITLAND	2204	3998		☐	Possible Gas
PICTURED CLIFFS	2780	3422		☐	
LEWIS	2932	3270		☐	
Intermediate Casing	3032	3170		☐	112 8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 744 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3520	2682		☐	
CHACRA	3834	2368		☐	
UPPER CLIFF HOUSE	4331	1871		☐	Gas; Est. Top Perf - 4332 (1869)
MASSIVE CLIFF HOUSE	4405	1797		☐	597 Gas; Cliffhouse is wet
MENEFEE	4586	1616		☐	
POINT LOOKOUT	5056	1146		☐	
MANCOS	5376	826		☐	
UPPER GALLUP	6302	-100		☐	
GREENHORN	7049	-847		☐	
GRANEROS	7102	-900		☐	
TWO WELLS	7156	-954		☐	2328 Gas
PAGUATE	7244	-1042		☐	
UPPER CUBERO	7282	-1080		☐	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SULLIVAN 1N

DEVELOPMENT

LOWER CUBERO	7303	-1101	☐	Est. Btm Perf - 7322 (- 1121) based on offset wells
ENCINAL	7324	-1122	☐	TD - 20" below T/ENCN
Total Depth	7344	-1142	☐	203 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 587 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	Atlantic C 101E	30N 10W 6 NW SE SE
Production	Sunray J 1B	30N 10W 7 SE NW SE
Production	Sullivan 1E	30N 10W 7 SW NE NE
Production	Sullivan 1B	30N 10W 7 NE SE NW

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 from 100' above top of GLLP to TD - mudlogger will call 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 Sullivan #1N
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6202 0ft (H&P ngs)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6202 0ft (H&P ngs)
Site:	Other Named Wells	North Reference:	True
Well:	Sullivan #1N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,207.9	2,932.0	Lewis		0.00		
3,796.0	3,520.0	Huerf Bent		0.00		
7,325.0	7,049.0	Greenhorn		0.00		
2,019.7	1,839.0	Stage Tool		0.00		
2,451.6	2,204.0	Fruitland		0.00		
7,558.0	7,282.0	Upper Cubero		0.00		
4,110.0	3,834.0	Chacra		0.00		
4,862.0	4,586.0	Menefee		0.00		
7,378.0	7,102.0	Graneros		0.00		
3,055.3	2,780.0	Pictured Cliffs		0.00		
7,600.0	7,324.0	Encinal		0.00		
4,607.0	4,331.0	Upper Cliffhouse		0.00		
5,332.0	5,056.0	Pt. Lookout		0.00		
4,681.0	4,405.0	Massive Cliffhouse		0.00		
7,520.0	7,244.0	Paguate		0.00		
1,424.6	1,364.0	Ojo Alamo		0.00		
6,578.0	6,302.0	Upper Gallup		0.00		
5,652.0	5,376.0	Mancos Shale		0.00		
7,620.0	7,344.0	Total Depth		0.00		
7,432.0	7,156.0	Two Wells		0.00		
7,579.0	7,303.0	Lower Cubero		0.00		
1,559.1	1,474.0	Kirtland		0.00		

REFERENCE INFORMATION

RKB @ 6202.0ft (H&P rigs)
Ground Elevation 6186.0
Reference Lat: 36° 49' 43.879 N
Reference Long: 107° 55' 25.812 W

Project: San Juan Basin - New Mexico Well
Site: Other Named Wells
Well: Sullivan #1N
Wellbore: Principal Wellbore
Design: Plan #1

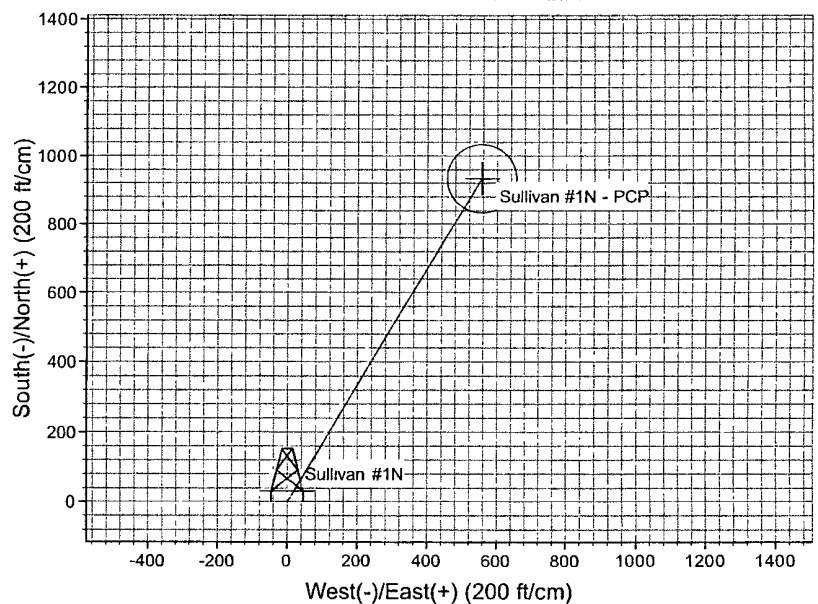
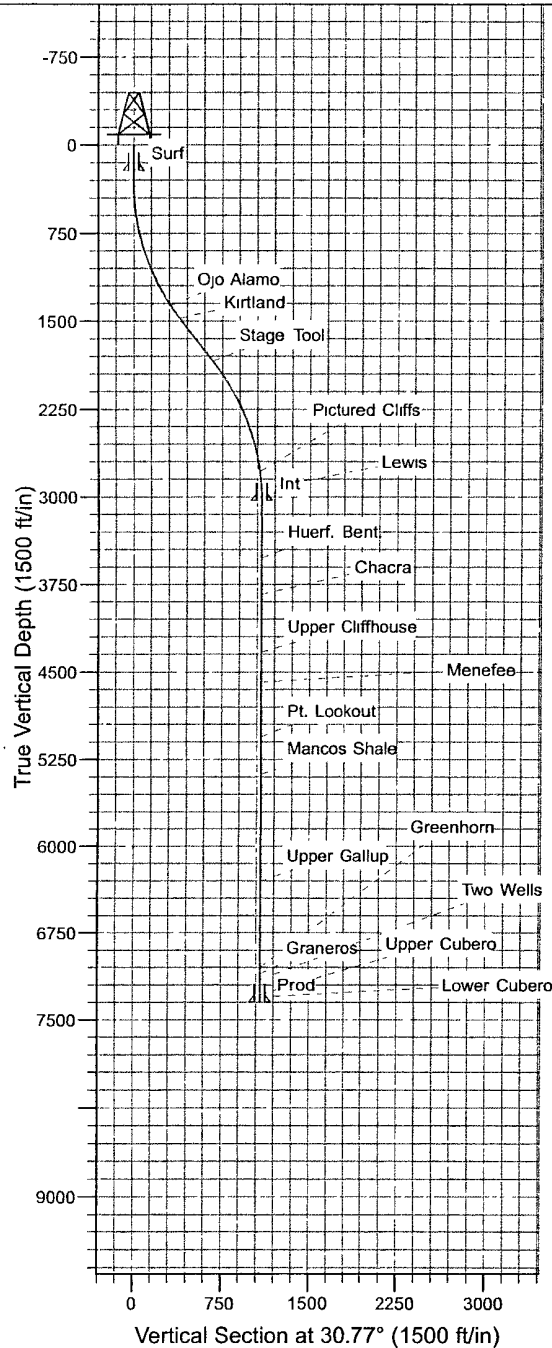
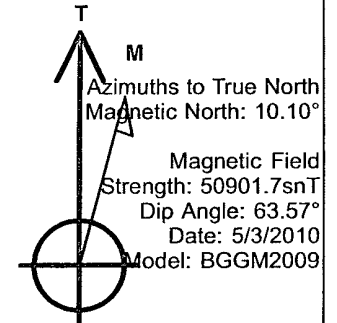


SECTION DETAILS

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	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1572.9	37.59	30.77	1485.0	340.6	202.8	3.00	30.77	396.4	
4	2055.1	37.59	30.77	1867.0	593.3	353.3	0.00	0.00	690.6	
5	3308.0	0.00	0.00	3032.0	934.0	556.1	3.00	180.00	1087.0	Sullivan #1N - ICP
6	7620.0	0.00	0.00	7344.0	934.0	556.1	0.00	0.00	1087.0	Sullivan #1N - PCP

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1364.0	1424.6	Ojo Alamo
1474.0	1559.1	Kirtland
1839.0	2019.7	Stage Tool
2204.0	2451.6	Fruitland
2780.0	3055.3	Pictured Cliffs
2932.0	3207.9	Lewis
3520.0	3796.0	Huerf. Bent.
3834.0	4110.0	Chacra
4331.0	4607.0	Upper Cliffhouse
4405.0	4681.0	Massive Cliffhouse
4586.0	4862.0	Menefee
5056.0	5332.0	Pt. Lookout
5376.0	5652.0	Mancos Shale
6302.0	6578.0	Upper Gallup
7049.0	7325.0	Greenhorn
7102.0	7378.0	Graneros
7156.0	7432.0	Two Wells
7244.0	7520.0	Paguate
7282.0	7558.0	Upper Cubero
7303.0	7579.0	Lower Cubero
7324.0	7600.0	Encinal
7344.0	7620.0	Total Depth



BURLINGTON RESOURCES OIL & GAS COMPANY LP

**SULLIVAN 1N
1650' FNL, 2597' FEL
SECTION 7, T-30-N, R-10-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
NAD 83 LAT.: 36.828873° N LONG.: 107.924458° W
ELEV.: 6186 NAVD88
NO NEW ACCESS / TWIN WITH SULLIVAN 1B**

FROM THE INTERSECTION OF HIGHWAY 550 AND AZTEC BOULEVARD
IN AZTEC, N.M.:

- GO 1.1 MILES NORTH ON HIGHWAY 550 TOWARDS DURANGO.
TURN RIGHT ON STATE HIGHWAY 173.(TO NAVAJO LAKE)
- GO 4.0 MILES EAST ON HIGHWAY 173. TURN LEFT ONTO
C.R.#2575.
- GO 0.9 MILES NORTH ON C.R.#2575. TURN LEFT.
- GO 0.3 MILES WEST. STAY LEFT AT -Y- IN THE ROAD.
- GO 0.3 MILES WEST. TURN RIGHT (NORTH) INTO SULLIVAN 1B
LOCATION. NEW WELL IS STAKED AS TWIN HERE.