

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 08 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 SF-079383 Unit Reporting Number NMNM-78420A-MV
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 30-6 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name RCVD AUG 16 '10 9. Well Number 97M OIL CONS. DIV. DIST. 3
4. Location of Well Surf: Unit J(NWSE), 1491' FSL & 1559' FEL Bottomhole: Unit H(ENE), 2550' FNL & 710' FEL Surf: Latitude: 36.78045° N (NAD83) Longitude: 107.55459° W Bottomhole: Latitude: 36.78384° N (NAD83) Longitude: 107.55170° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) + Sec. 27, T30N, R7W API # 30-039-30944
14. Distance in Miles from Nearest Town 22 miles / Blanco	12. County Rio Arriba
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	
16. Acres in Lease 2,240.00	17. Acres Assigned to Well 320.00 E/2 - MV/DK
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 72' from San Juan 30-6 Unit 97A (MV)	
19. Proposed Depth 8310'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6872' 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)	Date <u>3/8/2010</u>

PERMIT NO. APPROVAL DATE
APPROVED BY [Signature] TITLE AFM DATE 8/1/2010

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 3 Bond Numbers NMB-000015 and NMB-000089

AUG 27 2010

NMOC

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

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

NOTIFY AZTEC OCD 24 HRS
PRIOR TO CASING & CEMENT

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 68240

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 68210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87605

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

RECEIVED

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

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

Bureau of Land Management
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-30944		Pool Code 72319 / 71599		Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
Property Code 7469		Property Name SAN JUAN 30-6 UNIT			Well Number 97 M
OGRUD No. 14538		Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			Elevation 6872'

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
J	27	30N	7W		1491'	SOUTH	1559'	EAST	RIO ARriba

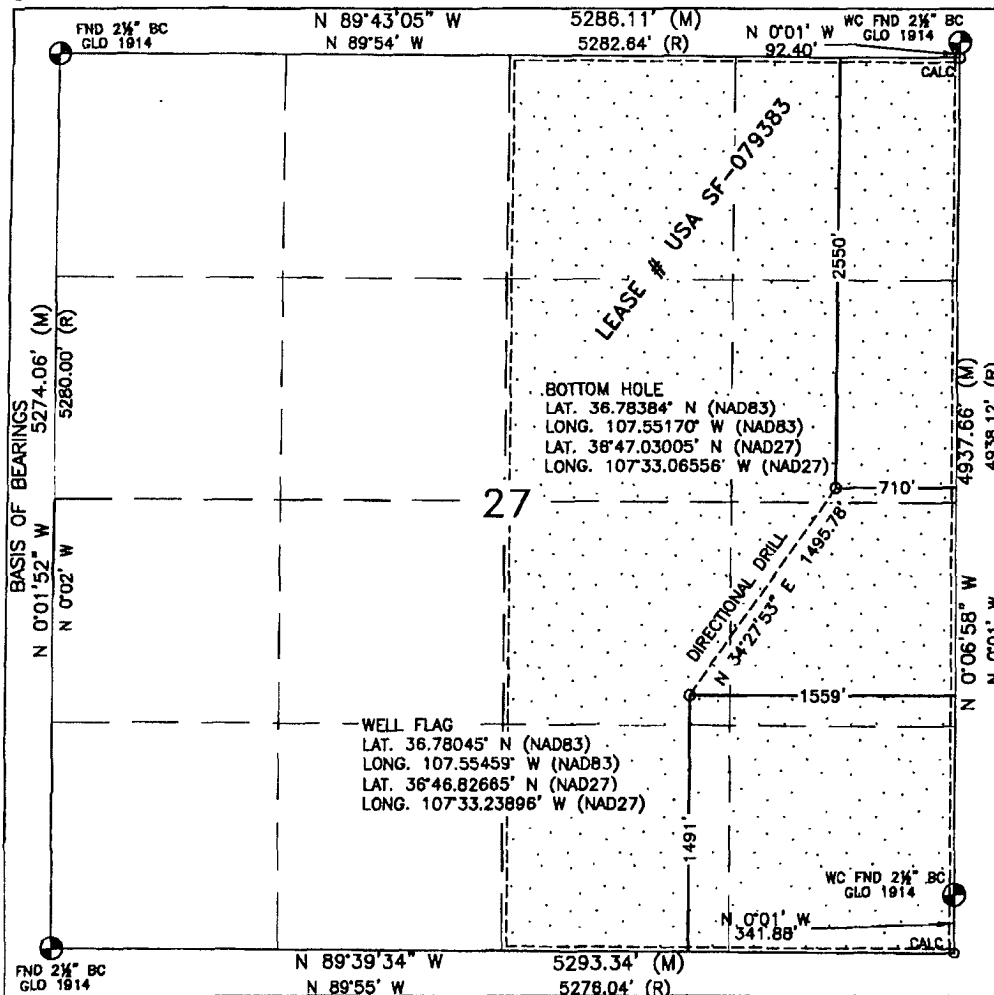
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	27	30N	7W		2550'	NORTH	710'	EAST	RIO ARriba

Dedicated Acres 320.00 ACRES - E/2		Joint or Infill		Consolidation Code		Order No.			
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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

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 or a compulsory pooling order heretofore entered by the division.

Signature
Crystal Tafoya 11/6/09

Printed Name
Crystal Tafoya 11/6/09

18 SURVEYOR CERTIFICATION

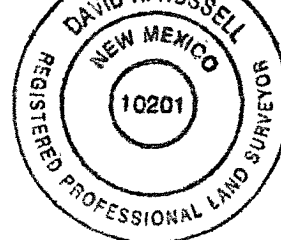
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

OCTOBER 19, 2009

Date of Survey

Signature and Seal of Professional Surveyor:

Signature



DAVID RUSSELL

Certificate Number 10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-6 UNIT 97M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9340				AFE \$: 1,216,899.52	
Field Name: SAN JUAN		Rig: H&P Rig 282		State: NM	County: RIO ARRIBA		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				Directional	
Latitude: 36.780444	Longitude: -107.553983	X:	Y:	Section: 27	Range: 007W		
Footage X: 1559 FEL	Footage Y: 1491 FSL	Elevation: 6872	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional	
Latitude: 36.783834	Longitude: -107.551093	X:	Y:	Section: 27	Range: 007W		
Footage X: 710 FEL	Footage Y: 2550 FNL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2010		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6888 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6688	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.	
VACIMIENTO	1482	5406	☐				
OJO ALAMO	2842	4046	☐				
QRTLAND	2950	3938	☐				
RUITLAND	3329	3559	☐			Possible Gas	
ICTURED CLIFFS	3786	3102	☐				
EWIS	3897	2991	☐				
Intermediate Casing	3997	2891	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 977 cuft. Circulate cement to surface.	
UERFANITO BENTONITE	4468	2420	☐				
HACRA	4796	2092	☐			Est. Top Perf - 4797 (2090)	
PPER CLIFF HOUSE	5362	1526	☐			Gas; Cliffhouse is dry	
ASSIVE CLIFF HOUSE	5578	1310	☐	356		Gas	
ENELEE	5648	1240	☐				
INT LOOKOUT	5974	914	☐				
ANCOS	6330	558	☐				
PPER GALLUP	7242	-354	☐				
EENHORN	7968	-1080	☐				
ANEROS	8021	-1133	☐				
IO WELLS	8089	-1201	☐	3418		Gas	
GUATE	8139	-1251	☐				
PER CUBERO	8168	-1280	☐				
WER CUBERO	8200	-1312	☐			Est. Btm Perf - 8269 (-1382) based on offset wells	

Printed on: 3/4/2010 9:19:29 AM

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-6 UNIT 97M

DEVELOPMENT

ENCINAL	8280	-1392	☐	TD - 30' below T/ENCN
Total Depth	8310	-1422	☐	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	SJ 30-6 91R	30N 7W 28 NW SW SE
Production	SJ 30-6 99B	30N 7W 34 NW SW NW
Production	SJ 30-6 96B	30N 7W 26 SE SE NE
Production	SJ 30-6 93B	30N 7W 33 W2 SE NW

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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Cased Hole GR / CBL

Mudlog from 100' above top of GRHN 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 SJ 30-6 #97M
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6888.0ft (H&P Rigs)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6888.0ft (H&P Rigs)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-6 #97M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
230.0	230.0	Surf	9-5/8	12-1/4	
8,656.0	8,310.0	Prod	4-1/2	6-1/4	
4,343.0	3,997.0	Int	7	8-3/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,588.0	7,242.0	Upper Gallup		0.00		
8,485.0	8,139.0	Paguate		0.00		
	8,310.0	Total Depth		0.00		
8,314.0	7,968.0	Greenhorn		0.00		
8,626.0	8,280.0	Encinal		0.00		
8,514.0	8,168.0	Upper Cubero		0.00		
4,243.0	3,897.0	Lewis		0.00		
8,367.0	8,021.0	Graneros		0.00		
4,131.6	3,786.0	Pictured Cliffs		0.00		
3,660.6	3,329.0	Fruitland		0.00		
6,676.0	6,330.0	Mancos Shale		0.00		
1,557.0	1,482.0	Nacimiento		0.00		
5,708.0	5,362.0	Upper Cliffhouse		0.00		
6,320.0	5,974.0	Pt. Lookout		0.00		
3,114.1	2,842.0	Ojo Alamo		0.00		
5,142.0	4,796.0	Chacra		0.00		
8,546.0	8,200.0	Lower Cubero		0.00		
5,994.0	5,648.0	Menefee		0.00		
5,924.0	5,578.0	Massive Cliffhouse		0.00		
4,814.0	4,468.0	Huerf. Bent.		0.00		
3,237.7	2,950.0	Kirtland		0.00		
8,435.0	8,089.0	Two Wells		0.00		

REFERENCE INFORMATION

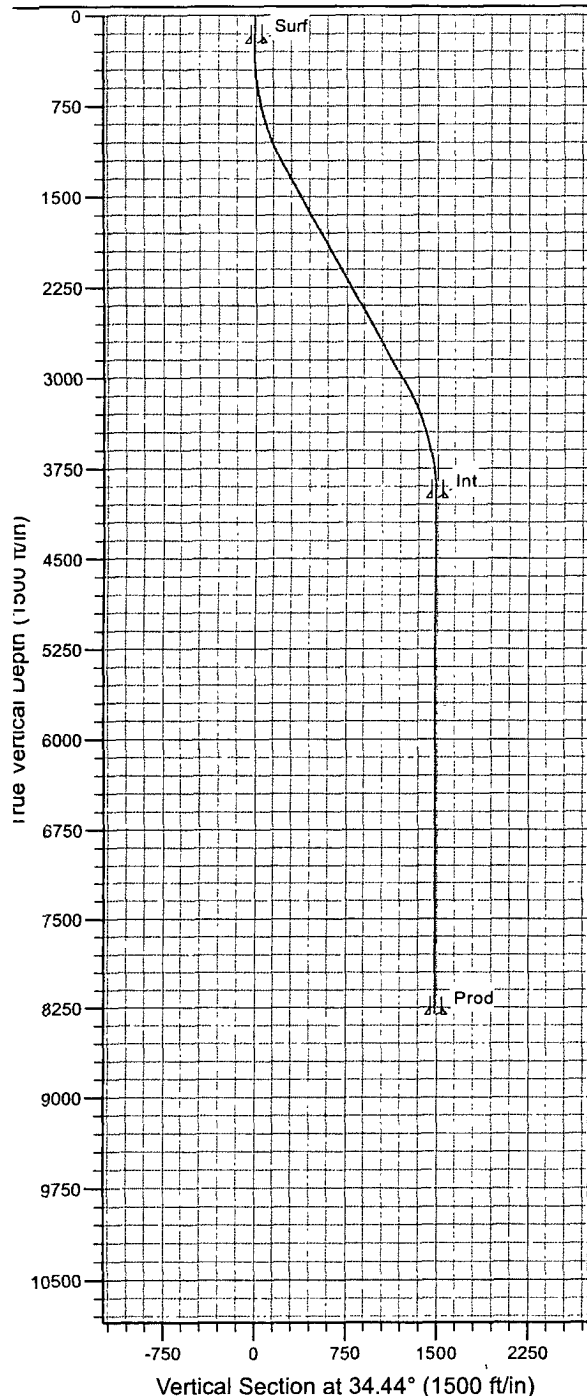
RKB @ 6888.0ft (H&P Rigs)
Ground Elevation 6872.0
Reference Lat: 36° 46' 49.599 N
Reference Long: 107° 33' 14.338 W

Project: San Juan Basin - New Mexico Wells
Site: San Juan 30 Wells
Well: SJ 30-6 #97M
Wellbore: Principal Wellbore
Design: Plan #1



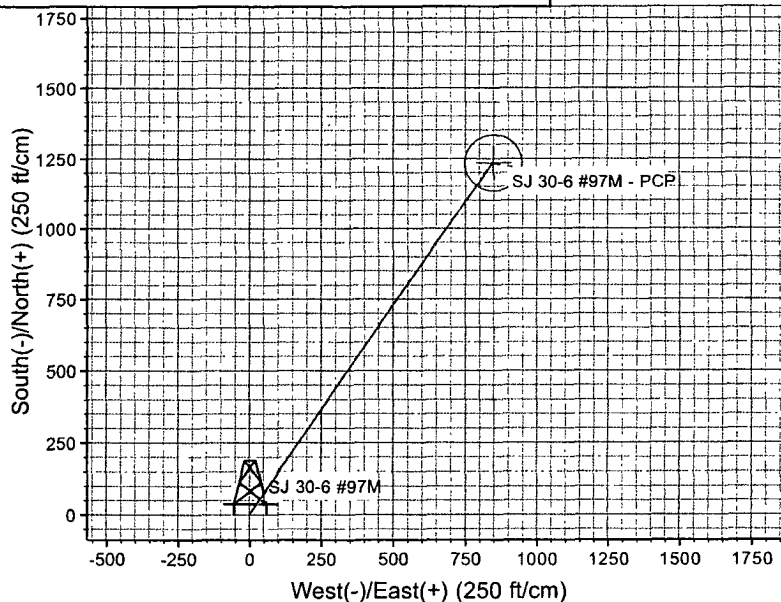
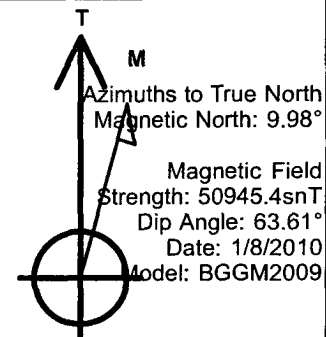
SECTION DETAILS

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	1291.4	29.14	34.44	1250.1	199.4	136.7	3.00	34.44	241.8	
4	3371.6	29.14	34.44	3066.9	1034.8	709.6	0.00	0.00	1254.8	
5	4343.0	0.00	0.00	3997.0	1234.2	846.4	3.00	180.00	1496.6	SJ 30-6 #97M - ICP
6	8656.0	0.00	0.00	8310.0	1234.2	846.4	0.00	0.00	1496.6	SJ 30-6 #97M - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1482.0	1557.0	Total Depth
2842.0	3114.1	Nacimiento
2950.0	3237.7	Ojo Alamo
3329.0	3660.6	Kirtland
3786.0	4131.6	Fruitland
3897.0	4243.0	Pictured Cliffs
4468.0	4814.0	Lewis
4796.0	5142.0	Huerf. Bent.
5362.0	5708.0	Chacra
5578.0	5924.0	Upper Cliffhouse
5648.0	5994.0	Massive Cliffhouse
5974.0	6320.0	Menefee
6330.0	6676.0	Pt. Lookout
7242.0	7588.0	Mancos Shale
7968.0	8314.0	Upper Gallup
8021.0	8367.0	Greenhorn
8089.0	8435.0	Graneros
8139.0	8485.0	Two Wells
8168.0	8514.0	Paguate
8200.0	8546.0	Upper Cubero
8280.0	8626.0	Lower Cubero
		Encinal



BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 30-6 UNIT #97 M
1491' FSL & 1559' FEL
LOCATED IN THE NW/4 SE/4 OF SECTION 27,
T30N, R7W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN BLANCO, TRAVEL EASTERLY ON HWY 64 FOR 15 MILES
- 2) TURN LEFT ONTO HWY 539 AND GO 2.3 MILES.
- 3) TURN RIGHT AT WASH & GO 2.3 MILES TO "Y" INTERSECTION
- 4) CONTINUE LEFT AND GO 1.1 MILES TO "Y" INTERSECTION.
- 5) TURN RIGHT AND GO 1.6 MILES.
- 6) TURN LEFT AND GO 300'.
- 7) TURN LEFT INTO EXISTING LOCATION WHERE PAD IS TWINNED.

WELL FLAG LOCATED AT LAT 36.78045° N, LONG 107.55459° W (NAD 83).

