

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

AUG 26 2009

1a. Type of Work DRILL	5. Lease Number SF-080430 Bureau of Land Management Unit Reporting Number 31 Farmington Field Office	
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 28-6 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name RCVD SEP 9 '09 OIL CONS. DIV. DIST. 3	
4. Location of Well Surf: Unit K(NESW), 1025' FNL & 1330' FWL Bottomhole: Unit L(NWSW), 710' FNL & 710' FWL Surf: Latitude: 36.672146° N (NAD83) Longitude: 107.511330° W Bottomhole: Latitude: 36.673008° N (NAD83) Longitude: 107.513448° W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) K Sec. 7, T28N, R6W API # 30-039-30807	
14. Distance in Miles from Nearest Town 34 miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	17. Acres Assigned to Well MV 260.40 All DK 326.18 (All) of Sec.7 & Sec. 18 - Lot 1 & C) R-2948	
16. Acres in Lease 986.040		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 50' from SSan Juan 28-6 Unit 408		
19. Proposed Depth 8090'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6827' GL	22. Approx. Date Work will Start 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 8/26/2009	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	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

This action is subject to technical and procedural review pursuant to 43 CFR 3162.3 and appeal pursuant to 43 CFR 3162.4

SEP 14 2009

NMOC

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT I
1825 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

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

Bureau of Land Management
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30807	² Pool Code 71599 / 72319	³ Pool Name BLANCO BASIN DAKOTA/MESAVERDE
⁴ Property Code 7462	⁵ Property Name SAN JUAN 28 - 6 UNIT	⁶ Well Number 184N
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6827'

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
K	7	28-N	6-W		1025'	NORTH	1330'	WEST	RIO ARRIBA

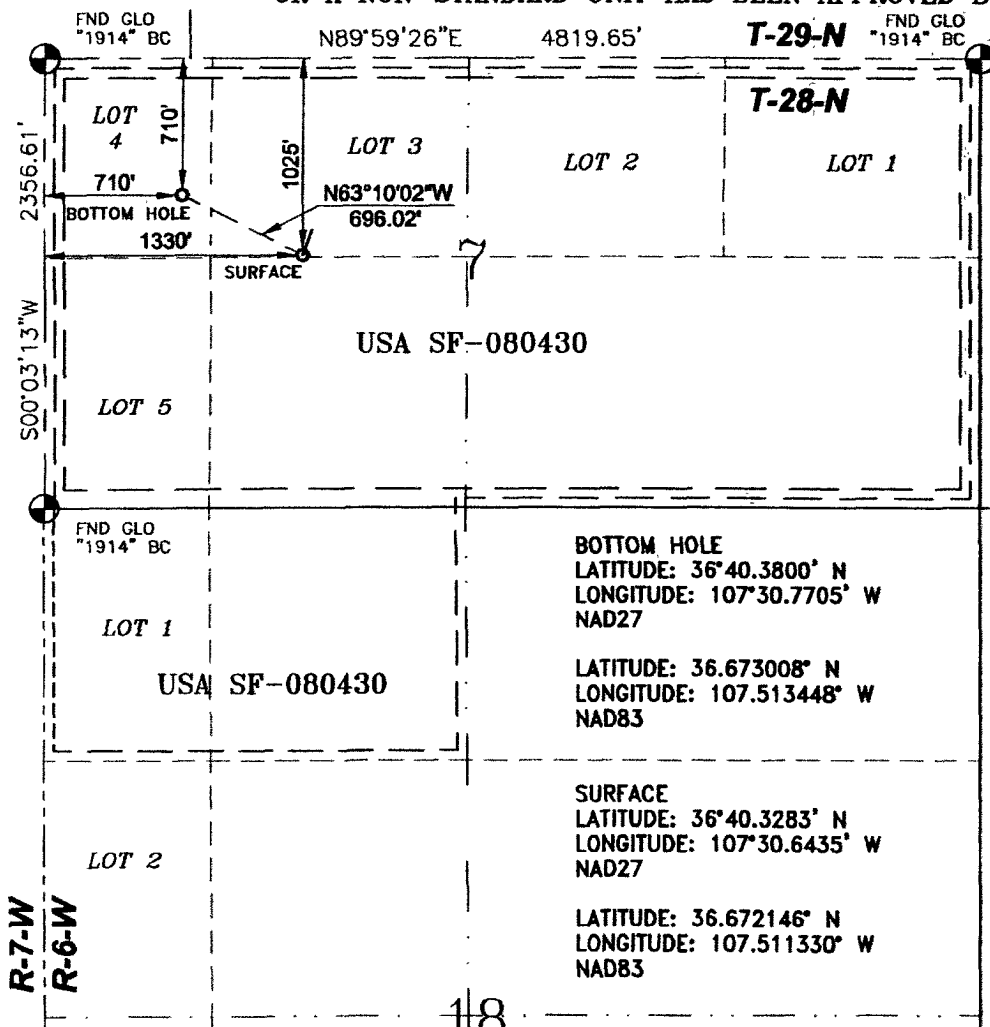
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	7	28-N	6-W		710	NORTH	710	WEST	RIO ARRIBA

¹² Dedicated Acres MV 260.40 ACRES SAV DK 326.18 ACRES S/2 of Sec. 7 & Sec. 18 - Lot 1 & C)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-2948 DK
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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

18



17 OPERATOR CERTIFICATION

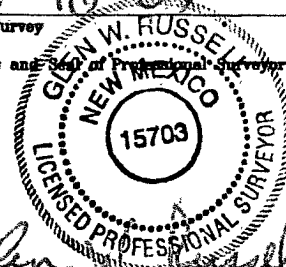
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this 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.

Crystal Tafoya 4/21/09
Signature
Crystal Tafoya 4-21-09
Printed Name

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.

4-16-09
Date of Survey
Signature and Seal of Professional Surveyor



Certificate Number 15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 184N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8292		AFE \$: 1,748,196.17	
Field Name: SAN JUAN 28-6 UNIT		Rig: H&P Rig 283		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer: Hester, Colton		Phone: +1 505-326-9779		Proj. Field Lead:	
				Phone:	

Primary Objective (Zones):

Zone	Zone Name
R20002	MESAVERDE(R20002)
R20076	DAKOTA(R20076)

Location: Surface Datum Code: NAD 27

Latitude: 36.672139	Longitude: -107.510725	X:	Y:	Section: 07	Range: 006W
Footage X: 1330 FWL	Footage Y: 1025 FNL	Elevation: 6827	(FT)	Township: 028N	
Tolerance:					

Location: Bottom Hole Datum Code: NAD 27

Latitude: 36.673001	Longitude: -107.512843	X:	Y:	Section: 07	Range: 006W
Footage X: 710 FWL	Footage Y: 710 FNL	Elevation:	(FT)	Township: 028N	
Tolerance:					

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

Formation Data: Assume KB = 6842 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	201	6641	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 160 cuft. Circulate cement to surface.
NACIMIENTO	1390	5452	☐			
OJO ALAMO	2809	4033	☐			
KIRTLAND	2919	3923	☐			
FRUITLAND	3239	3603	☐			Possible Gas
PICTURED CLIFFS	3644	3198	☐			
LEWIS	3792	3050	☐			
Intermediate Casing	3892	2950	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 900 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4255	2587	☐			
CHACRA	4594	2248	☐			Est. Top Perf - 4595 (2246)
UPPER CLIFF HOUSE	5193	1649	☐			Gas
MASSIVE CLIFF HOUSE	5296	1546	☐	490		Gas
MENEFEE	5476	1366	☐			
POINT LOOKOUT	5818	1024	☐			
MANCOS	6312	530	☐			
UPPER GALLUP	7044	-202	☐			
GREENHORN	7772	-930	☐			
GRANEROS	7832	-990	☐			
TWO WELLS	7874	-1032	☐	2608		Gas
PAGUATE	7965	-1123	☐			
UPPER CUBERO	7984	-1142	☐			
LOWER CUBERO	8018	-1176	☐			Est. Btm Perf - 8074 (-1233) based on offset wells

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-6 UNIT 184N

DEVELOPMENT

OAK CANYON	8071	-1229	☐	TD - T/ENCN 6-1/4" hole, 4-1/2" 11.6 ppf, J-55 & L-80, LTC casing. Cement w/ 572 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	8090	-1248	☐	
Total Depth	8090	-1248	☐	
BURRO CANYON	8192	-1350	☐	
MORRISON	8213	-1371	☐	

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 28-6 184	28N 6W 7 NE SW SW
Production	SJ 28-6 12	28N 6W 7 NW 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 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 28-6 #184N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6842.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6842.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-6 #184N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-6 #184N Wellbore #1		
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)
7,200.0	0.00	0.00	7,096.8	313.7	-620.8	695.6	0.00	0.00	0.00
7,300.0	0.00	0.00	7,196.8	313.7	-620.8	695.6	0.00	0.00	0.00
7,400.0	0.00	0.00	7,296.8	313.7	-620.8	695.6	0.00	0.00	0.00
7,500.0	0.00	0.00	7,396.8	313.7	-620.8	695.6	0.00	0.00	0.00
7,600.0	0.00	0.00	7,496.8	313.7	-620.8	695.6	0.00	0.00	0.00
7,700.0	0.00	0.00	7,596.8	313.7	-620.8	695.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,696.8	313.7	-620.8	695.6	0.00	0.00	0.00
7,875.2	0.00	0.00	7,772.0	313.7	-620.8	695.6	0.00	0.00	0.00
Greenhorn									
7,900.0	0.00	0.00	7,796.8	313.7	-620.8	695.6	0.00	0.00	0.00
7,935.2	0.00	0.00	7,832.0	313.7	-620.8	695.6	0.00	0.00	0.00
Graneros									
7,977.2	0.00	0.00	7,874.0	313.7	-620.8	695.6	0.00	0.00	0.00
Two Wells									
8,000.0	0.00	0.00	7,896.8	313.7	-620.8	695.6	0.00	0.00	0.00
8,068.2	0.00	0.00	7,965.0	313.7	-620.8	695.6	0.00	0.00	0.00
Paguate									
8,087.2	0.00	0.00	7,984.0	313.7	-620.8	695.6	0.00	0.00	0.00
Upper cubero									
8,100.0	0.00	0.00	7,996.8	313.7	-620.8	695.6	0.00	0.00	0.00
8,121.2	0.00	0.00	8,018.0	313.7	-620.8	695.6	0.00	0.00	0.00
Lower Cubero									
8,174.2	0.00	0.00	8,071.0	313.7	-620.8	695.6	0.00	0.00	0.00
Oak Canyon									
8,193.2	0.00	0.00	8,090.0	313.7	-620.8	695.6	0.00	0.00	0.00
Encinal - Production Shoe - SJ 28-6 #184N TD									

Targets

Target Name	hit/miss target	Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
SJ 28-6 #184N ICP	- plan hits target center	- Point	0.00	0.00	3,892.0	313.7	-620.8	2,064,382.28	593,987.82	36° 40' 22.800 N	107° 30' 46.230 W
SJ 28-6 #184N TD	- plan hits target center	- Point	0.00	0.00	8,090.0	313.7	-620.8	2,064,382.28	593,987.82	36° 40' 22.800 N	107° 30' 46.230 W

Casing Points

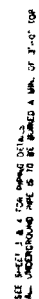
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
201.0	201.0	Surface Shoe	9-5/8	12-1/4
8,193.2	8,090.0	Production Shoe	4-1/2	6-1/4
3,995.2	3,892.0	Intermediate Shoe	7	8-3/4

ConocoPhillips or its affiliates

Planning Report

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Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-6 #184N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-6 #184N Wellbore #1		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,921.2	5,818.0	Point Lookout		0.00		
7,935.2	7,832.0	Graneros		0.00		
2,989.6	2,919.0	Kirtland		0.00		
8,121.2	8,018.0	Lower Cubero		0.00		
8,174.2	8,071.0	Oak Canyon		0.00		
1,390.5	1,390.0	Nacimiento		0.00		
4,697.2	4,594.0	Chacra		0.00		
7,977.2	7,874.0	Two Wells		0.00		
8,068.2	7,965.0	Paguate		0.00		
3,746.5	3,644.0	Pictured Cliffs		0.00		
8,087.2	7,984.0	Upper cubero		0.00		
3,895.2	3,792.0	Lewis		0.00		
2,873.0	2,809.0	Ojo Alamo		0.00		
8,193.2	8,090.0	Encinal		0.00		
7,147.2	7,044.0	Upper Gallup		0.00		
5,399.2	5,296.0	Mass. Cliffhouse		0.00		
6,415.2	6,312.0	Mancos		0.00		
3,328.8	3,239.0	Fruitland		0.00		
4,358.2	4,255.0	Huerfano Bentonite		0.00		
5,579.2	5,476.0	Menefee		0.00		
7,875.2	7,772.0	Greenhorn		0.00		
5,296.2	5,193.0	Upper Cliffhouse		0.00		



9 3C 12345

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
										ENGINEERING RELEASE PROJECT: _____ DRAWING: _____ SHEET: _____ DATE: _____ BY: _____ FOR: _____ APPROVED: _____ CHECKED: _____ ELECTRONIC: _____ I & C: _____ CIVIL/STRUCTURAL: _____ MECHANICAL: _____										REFERENCE STANDARDS: _____ SPECIFICATIONS: _____ NOTES: _____										CONTRACTOR'S HIGH PRESSURE UNIT PHASE FACILITY DIAGRAM - SITE LAYOUT SAN JUAN BUSINESS UNIT HP PHASE - REV1 SCALE: _____ DATE: _____ DRAWN BY: _____ CHECKED BY: _____ IN CHARGE: _____ 1 OF 3																																																																					

**Directions from the Post Office
In Blanco, NM to
Burlington Resources Oil & Gas Company LP
SAN JUAN 28-6 UNIT #184N
1025' FNL 1330' FWL,
Section 7, T28N, R6W, N.M.P.M., Rio Arriba County,
New Mexico**

**Latitude: 36° 40' 19.72" N
Longitude: 107° 30' 40.79" W
Nad 83**

**From the Post Office in Blanco, NM
Take Hwy 64 east for 22.8 miles**

**Turn right (southerly) for 1.96 miles,
Turn right (southwesterly) for 1.30 miles,
To the top of snake hill,
Turn right (westerly) for 3.0 miles,
Turn left (southerly) 0.2 miles,
Turn right (westerly) 0.1 miles,
Turn right (northerly) 0.1 miles
to the new well location
twinned with the San Juan 28-6 unit # 408.**