

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 27 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK ^{Farmington Field Office}
Bureau of Land Management

1a. Type of Work DRILL	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	5. Lease Number SF-079365 Unit Reporting Number NMNM-784124-MV 6. If Indian, All. or Tribe NMNM-78412C-1
1b. Type of Well GAS		
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	9. Well Number 181P
4. Location of Well Surface: Unit E (SWNW), 1813' FNL & 961' FWL BHL : Unit C (NENW), 715' FNL & 1810' FWL Surface: Latitude: 36.5764168° N (NAD83) Longitude: 107.4421653° W BHL : Latitude: 36.5794492° N (NAD83) Longitude: 107.4392265° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 14, T27N, R6W API# 30-039- 31090	
14. Distance in Miles from Nearest Town 41 miles to Blanco	12. County Rio Arriba	13. State NM RCVD NOV 15 '11
15. Distance from Proposed Location to Nearest Property or Lease Line 715'	16. Acres in Lease 1720.000	17. Acres Assigned to Well 320 (N/2) DK 320 (W/2) MV
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 72' SJ 28-6 Unit 181M (MV/DK)	19. Proposed Depth 7669'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6482' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Arleen Kellywood</u> Arleen Kellywood (Staff Regulatory Tech)	<u>9/27/11</u> Date	

PERMIT NO. APPROVAL DATE
APPROVED BY [Signature] TITLE AFM DATE 11/9/11

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.9 and appeal pursuant to 43 CFR 3165.4

NMOCD NOV 21 2011
Ar ca

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

Hold C104 for Directional Survey
Hold C104 for Directional Survey and "As Drilled" plat
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

OIL CONSERVATION DIVISION

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

Form C-102
Revised July 16, 2010
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31090	² Pool Code 71599 / 72319	³ Pool Name BLANCO BASIN DAKOTA / MESA VERDE
⁴ Property Code 7462	⁵ Property Name SAN JUAN 28-6 UNIT	⁶ Well Number 181P
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6482

¹⁰ Surface Location

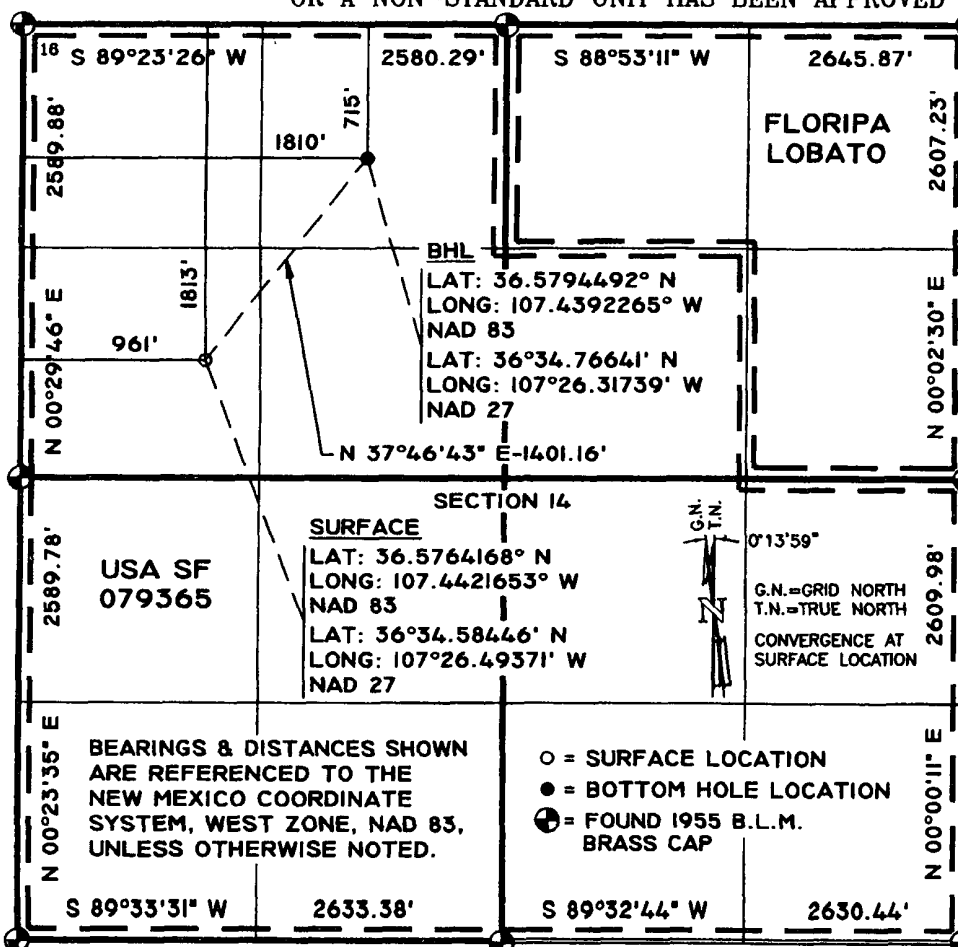
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	14	27 N	6 W		1813	NORTH	961	WEST	RIO ARriba

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
C	14	27 N	6 W		715	NORTH	1810	WEST	RIO ARriba

¹² Dedicated Acres 320 (N/2) DK 320 (W/2) MV	¹³ Joint or Infill	¹⁴ 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



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 Date: 4/16/11
Printed Name: Dollie L. Busse
E-mail Address: _____

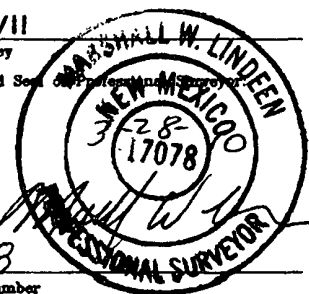
¹⁸ SURVEYOR CERTIFICATION

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.

03/17/11

Date of Survey

Signature and Seal of Registered Surveyor



17078
Certificate Number

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 181P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.1014				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 711		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: 36.576408		Longitude: -107.441562		X:	Y:	Section: 14	Range: 006W
Footage X: 961 FWL		Footage Y: 1813 FNL		Elevation: 6482	(FT)	Township: 027N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.579440		Longitude: -107.438623		X:	Y:	Section: 14	Range: 006W
Footage X: 1810 FWL		Footage Y: 715 FNL		Elevation:	(FT)	Township: 027N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6497 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6297	200	☐			12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 144 cuft. Circulate cement to surface.
NACIMIENTO	1022	5475		☐			
OJO ALAMO	2490	4007		☐			
KIRTLAND	2672	3825		☐			
FRUITLAND	2879	3618		☐			Possible Gas
PICTURED CLIFFS	3230	3267		☐			
LEWIS	3342	3155		☐			
HUERFANITO BENTONITE	3715	2782		☐			
Intermediate Casing	4000	2497	4323	☐	109		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 963 cuft. Circulate cement to surface.
CHACRA	4170	2327		☐			
UPPER CLIFF HOUSE	4794	1703		☐			Gas; Est. Top Perf - 4796 (1701)
MASSIVE CLIFF HOUSE	4885	1612		☐	617		Gas; Cliffhouse is dry
MENEFEE	5024	1473		☐			
POINT LOOKOUT	5389	1108		☐			
MANCOS	5879	618		☐			
UPPER GALLUP	6578	-81		☐			
GREENHORN	7335	-838		☐			
GRANEROS	7400	-903		☐			
TWO WELLS	7437	-940		☐	2395		Gas
PAGUATE	7492	-995		☐			
UPPER CUBERO	7548	-1051		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 181P

DEVELOPMENT

LOWER CUBERO	7586	-1089	☐	Est. Btm Perf - 7654 (- 1157) based on offset wells
OAK CANYON	7660	-1163	☐	
Total Depth	7669	-1172	7992	☐ 191 6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 501 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	7669	-1172	☐	TD - T/ENCN

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 28-6 UNIT-181M	27N 6W 14 SW NW
Production	SJ 28-6 UNIT-209	27N 6W 15 NW SE NE
Production	SJ 28-6 UNIT-181N	27N 6W 14 NW SW NE

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 SJB

San Juan Basin - New Mexico West Wells

San Juan 28 Wells

SJ 28-6 #181P

SJ 28-6 #181P

Plan: Plan #1

Standard Planning Report

13 September, 2011

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-6 #181P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6497.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6497.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-6 #181P	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-6 #181P		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site:	San Juan 28 Wells		
Site Position:		Northing:	2,042,566.26 ft
From:	Lat/Long	Easting:	563,690.29 ft
Position Uncertainty:	15.0 ft	Slot Radius:	"
		Latitude:	36° 36' 47.901 N
		Longitude:	107° 36' 58.757 W
		Grid Convergence:	0.13 °

Well:	SJ 28-6 #181P; S-Shaped MV/DK - Long Reach		
Well Position	+N/-S	0.0 ft	Northing: 2,029,296.46 ft
	+E/-W	0.0 ft	Easting: 615,034.96 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Ground Level:	6,482.0 ft

Wellbore:	SJ 28-6 #181P		
Magnetics	Model Name	Sample Date	Declination
	BGGM2011	9/13/2011	9.71
			Dip Angle
			63.38
			Field Strength
			50,637

Design:	Plan #1		
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Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			38.09

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,902.4	31.05	38.09	1,827.5	323.0	253.2	2.00	2.00	0.00	38.09	
3,288.4	31.05	38.09	3,015.0	885.7	694.1	0.00	0.00	0.00	0.00	
4,323.3	0.00	0.00	4,000.0	1,101.0	862.9	3.00	-3.00	0.00	180.00	SJ 28-6 #181P - IC
7,992.3	0.00	0.00	7,669.0	1,101.0	862.9	0.00	0.00	0.00	0.00	SJ 28-6 #181P - PC

ConocoPhillips or its affiliates

Planning Report

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Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6497.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-6 #181P	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-6 #181P		
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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
230.0	0.00	0.00	230.0	0.0	0.0	0.0	0.00	0.00	0.00
Surf Csg:									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.00	38.09	400.0	0.3	0.3	0.4	2.00	2.00	0.00
500.0	3.00	38.09	499.9	3.1	2.4	3.9	2.00	2.00	0.00
600.0	5.00	38.09	599.7	8.6	6.7	10.9	2.00	2.00	0.00
700.0	7.00	38.09	699.1	16.8	13.2	21.4	2.00	2.00	0.00
800.0	9.00	38.09	798.2	27.8	21.8	35.3	2.00	2.00	0.00
900.0	11.00	38.09	896.6	41.4	32.5	52.6	2.00	2.00	0.00
1,000.0	13.00	38.09	994.4	57.8	45.3	73.4	2.00	2.00	0.00
1,028.3	13.57	38.09	1,022.0	62.9	49.3	79.9	2.00	2.00	0.00
Nacimiento									
1,100.0	15.00	38.09	1,091.5	76.8	60.2	97.6	2.00	2.00	0.00
1,200.0	17.00	38.09	1,187.6	98.5	77.2	125.2	2.00	2.00	0.00
1,300.0	19.00	38.09	1,282.7	122.8	96.3	156.1	2.00	2.00	0.00
1,400.0	21.00	38.09	1,376.6	149.8	117.4	190.3	2.00	2.00	0.00
1,500.0	23.00	38.09	1,469.4	179.2	140.5	227.7	2.00	2.00	0.00
1,600.0	25.00	38.09	1,560.7	211.3	165.6	268.4	2.00	2.00	0.00
1,700.0	27.00	38.09	1,650.6	245.8	192.6	312.2	2.00	2.00	0.00
1,800.0	29.00	38.09	1,738.9	282.7	221.6	359.2	2.00	2.00	0.00
1,900.0	31.00	38.09	1,825.5	322.1	252.4	409.2	2.00	2.00	0.00
1,902.4	31.05	38.09	1,827.5	323.0	253.2	410.4	2.00	2.00	0.00
2,000.0	31.05	38.09	1,911.1	362.6	284.2	460.8	0.00	0.00	0.00
2,100.0	31.05	38.09	1,996.8	403.2	316.0	512.3	0.00	0.00	0.00
2,200.0	31.05	38.09	2,082.5	443.8	347.9	563.9	0.00	0.00	0.00
2,300.0	31.05	38.09	2,168.2	484.4	379.7	615.5	0.00	0.00	0.00
2,400.0	31.05	38.09	2,253.8	525.0	411.5	667.1	0.00	0.00	0.00
2,500.0	31.05	38.09	2,339.5	565.6	443.3	718.6	0.00	0.00	0.00
2,600.0	31.05	38.09	2,425.2	606.2	475.1	770.2	0.00	0.00	0.00
2,675.6	31.05	38.09	2,490.0	636.9	499.2	809.2	0.00	0.00	0.00
Ojo Alamo									
2,700.0	31.05	38.09	2,510.9	646.8	506.9	821.8	0.00	0.00	0.00
2,800.0	31.05	38.09	2,596.5	687.4	538.7	873.4	0.00	0.00	0.00
2,888.1	31.05	38.09	2,672.0	723.1	566.8	918.8	0.00	0.00	0.00
Kirtland									
2,900.0	31.05	38.09	2,682.2	728.0	570.6	924.9	0.00	0.00	0.00
3,000.0	31.05	38.09	2,767.9	768.6	602.4	976.5	0.00	0.00	0.00
3,100.0	31.05	38.09	2,853.6	809.2	634.2	1,028.1	0.00	0.00	0.00
3,129.7	31.05	38.09	2,879.0	821.2	643.6	1,043.4	0.00	0.00	0.00
Fruitland									
3,200.0	31.05	38.09	2,939.2	849.8	666.0	1,079.7	0.00	0.00	0.00
3,288.4	31.05	38.09	3,015.0	885.7	694.1	1,125.3	0.00	0.00	0.00
3,300.0	30.70	38.09	3,024.9	890.3	697.8	1,131.2	3.00	-3.00	0.00
3,400.0	27.70	38.09	3,112.2	928.7	727.9	1,180.0	3.00	-3.00	0.00
3,500.0	24.70	38.09	3,201.9	963.5	755.1	1,224.1	3.00	-3.00	0.00
3,530.8	23.78	38.09	3,230.0	973.4	762.9	1,236.8	3.00	-3.00	0.00
Pictured Cliffs									
3,600.0	21.70	38.09	3,293.8	994.5	779.4	1,263.5	3.00	-3.00	0.00
3,651.6	20.15	38.09	3,342.0	1,009.0	790.8	1,281.9	3.00	-3.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local/Co-ordinate Reference:	Well SJ 28-6 #181P
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6497.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6497.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-6 #181P	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-6 #181P		
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)
Lewis									
3,700.0	18.70	38.09	3,387.7	1,021.7	800.7	1,298.0	3.00	-3.00	0.00
3,800.0	15.70	38.09	3,483.2	1,044.9	819.0	1,327.6	3.00	-3.00	0.00
3,900.0	12.70	38.09	3,580.1	1,064.2	834.1	1,352.1	3.00	-3.00	0.00
4,000.0	9.70	38.09	3,678.2	1,079.5	846.1	1,371.6	3.00	-3.00	0.00
4,037.3	8.58	38.09	3,715.0	1,084.2	849.7	1,377.5	3.00	-3.00	0.00
Huerfano Bentonite									
4,100.0	6.70	38.09	3,777.2	1,090.7	854.9	1,385.8	3.00	-3.00	0.00
4,200.0	3.70	38.09	3,876.7	1,097.9	860.5	1,394.9	3.00	-3.00	0.00
4,300.0	0.70	38.09	3,976.7	1,100.9	862.8	1,398.7	3.00	-3.00	0.00
4,323.3	0.00	0.00	4,000.0	1,101.0	862.9	1,398.9	3.00	-3.00	0.00
Int Csg - SJ 28-6 #181P - ICP									
4,400.0	0.00	0.00	4,076.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
4,493.3	0.00	0.00	4,170.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Chacra									
4,500.0	0.00	0.00	4,176.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
4,600.0	0.00	0.00	4,276.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
4,700.0	0.00	0.00	4,376.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
4,800.0	0.00	0.00	4,476.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
4,900.0	0.00	0.00	4,576.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
5,000.0	0.00	0.00	4,676.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
5,100.0	0.00	0.00	4,776.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
5,117.3	0.00	0.00	4,794.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Upper Cliffhouse									
5,200.0	0.00	0.00	4,876.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
5,208.3	0.00	0.00	4,885.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Massive Cliffhouse									
5,300.0	0.00	0.00	4,976.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
5,347.3	0.00	0.00	5,024.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Menefee									
5,400.0	0.00	0.00	5,076.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
5,500.0	0.00	0.00	5,176.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
5,600.0	0.00	0.00	5,276.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,376.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
5,712.3	0.00	0.00	5,389.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Pt. Lookout									
5,800.0	0.00	0.00	5,476.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
5,900.0	0.00	0.00	5,576.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,676.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
6,100.0	0.00	0.00	5,776.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
6,200.0	0.00	0.00	5,876.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
6,202.3	0.00	0.00	5,879.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Mancos Shale									
6,300.0	0.00	0.00	5,976.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
6,400.0	0.00	0.00	6,076.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
6,500.0	0.00	0.00	6,176.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
6,600.0	0.00	0.00	6,276.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
6,700.0	0.00	0.00	6,376.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
6,800.0	0.00	0.00	6,476.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
6,900.0	0.00	0.00	6,576.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
6,901.3	0.00	0.00	6,578.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Gallup									

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-6 #181P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6497.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6497.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-6 #181P	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	SJ 28-6 #181P 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)
7,000.0	0.00	0.00	6,676.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
7,100.0	0.00	0.00	6,776.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
7,200.0	0.00	0.00	6,876.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
7,300.0	0.00	0.00	6,976.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
7,400.0	0.00	0.00	7,076.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
7,500.0	0.00	0.00	7,176.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,276.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
7,658.3	0.00	0.00	7,335.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Greenhorn									
7,700.0	0.00	0.00	7,376.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
7,723.3	0.00	0.00	7,400.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Grangeros									
7,760.3	0.00	0.00	7,437.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Two Wells									
7,800.0	0.00	0.00	7,476.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
7,815.3	0.00	0.00	7,492.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Paguate									
7,871.3	0.00	0.00	7,548.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Upper Cubero									
7,900.0	0.00	0.00	7,576.7	1,101.0	862.9	1,398.9	0.00	0.00	0.00
7,909.3	0.00	0.00	7,586.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Lower Cubero									
7,983.3	0.00	0.00	7,660.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Oak Canyon									
7,992.2	0.00	0.00	7,668.9	1,101.0	862.9	1,398.9	0.00	0.00	0.00
Total Depth									
7,992.3	0.00	0.00	7,669.0	1,101.0	862.9	1,398.9	0.00	0.00	0.00
SJ 28-6 #181P - 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
SJ 28-6 #181P - ICP	- plan hits target center	0.00	0.00	4,000.0	1,101.0	862.9	2,030,400.90	615,893.32	36° 34' 45.955 N	107° 26' 19.043 W
- Point										
SJ 28-6 #181P - PCP	- plan misses target center by 3.0ft at 7992.3ft MD (7669.0 TVD, 1101.0 N, 862.9 E)	0.00	0.00	7,669.0	1,104.0	862.9	2,030,403.93	615,893.31	36° 34' 45.985 N	107° 26' 19.043 W
- Point										

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,992.3	7,669.0	Prod Csg	4-1/2	6-1/4
4,323.3	4,000.0	Int Csg	7	8-3/4
230.0	230.0	Surf Csg	9-5/8	12-1/4

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-6 #181P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6497.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6497 0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-6 #181P	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	SJ-28-6 #181P Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Direction (°)	
5,117.3	4,794.0	Upper Cliffhouse		0.00		
5,712.3	5,389.0	Pt. Lookout		0.00		
7,909.3	7,586.0	Lower Cubero		0.00		
6,202.3	5,879.0	Mancos Shale		0.00		
3,129.7	2,879.0	Fruitland		0.00		
7,658.3	7,335.0	Greenhorn		0.00		
7,871.3	7,548.0	Upper Cubero		0.00		
5,347.3	5,024.0	Menefee		0.00		
3,651.6	3,342.0	Lewis		0.00		
6,901.3	6,578.0	Gallup		0.00		
7,760.3	7,437.0	Two Wells		0.00		
3,530.8	3,230.0	Pictured Cliffs		0.00		
7,723.3	7,400.0	Graneros		0.00		
5,208.3	4,885.0	Massive Cliffhouse		0.00		
2,888.1	2,672.0	Kirtland		0.00		
7,983.3	7,660.0	Oak Canyon		0.00		
7,815.3	7,492.0	Paguate		0.00		
7,992.2	7,668.9	Total Depth		0.00		
4,037.3	3,715.0	Huerfanito Bentonite		0.00		
1,028.3	1,022.0	Nacimiento		0.00		
2,675.6	2,490.0	Ojo Alamo		0.00		
4,493.3	4,170.0	Chacra		0.00		

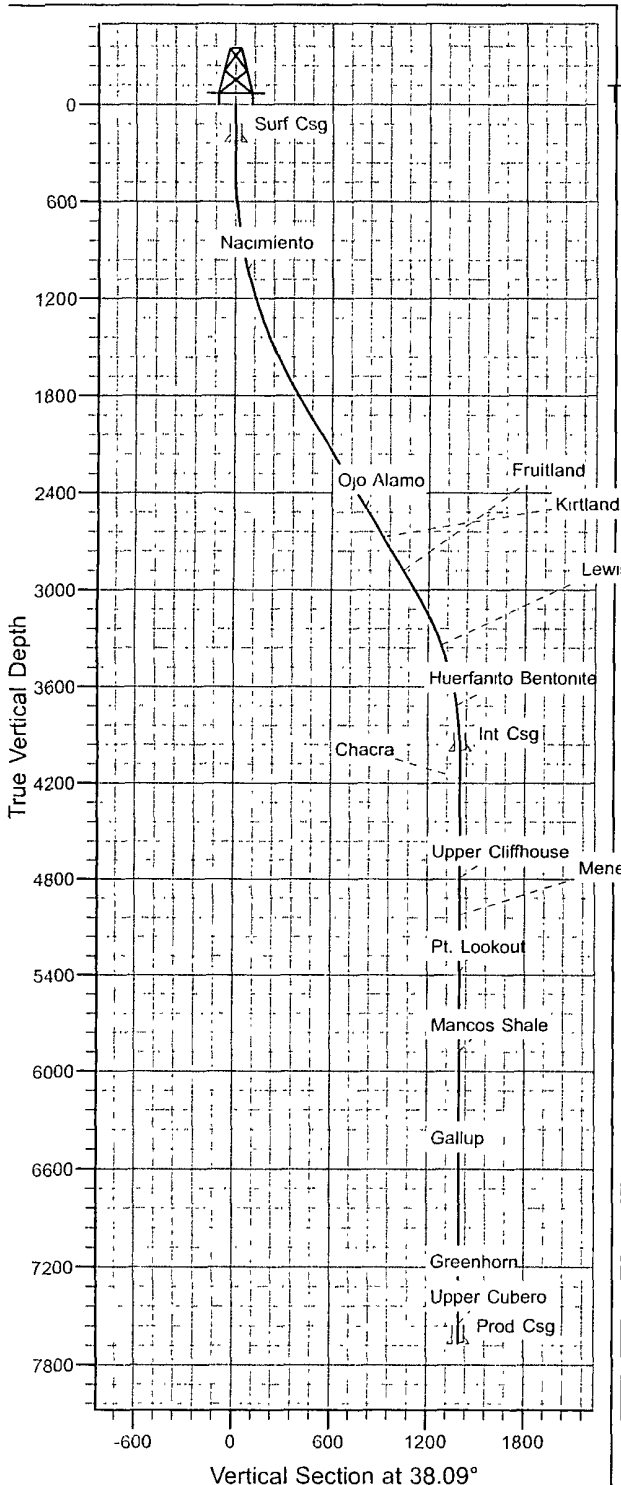
WELL @ 6497.0ft (Original Well Elev)
Ground Elevation 6482.0
Reference Lat: 36° 34' 35.068 N
Reference Long: 107° 26' 29.623 W

Project: San Juan Basin - New Mexico West
Site: San Juan 28 Wells
Well: SJ 28-6 #181P
Wellbore: SJ 28-6 #181P
Design: Plan #1

ConocoPhillips

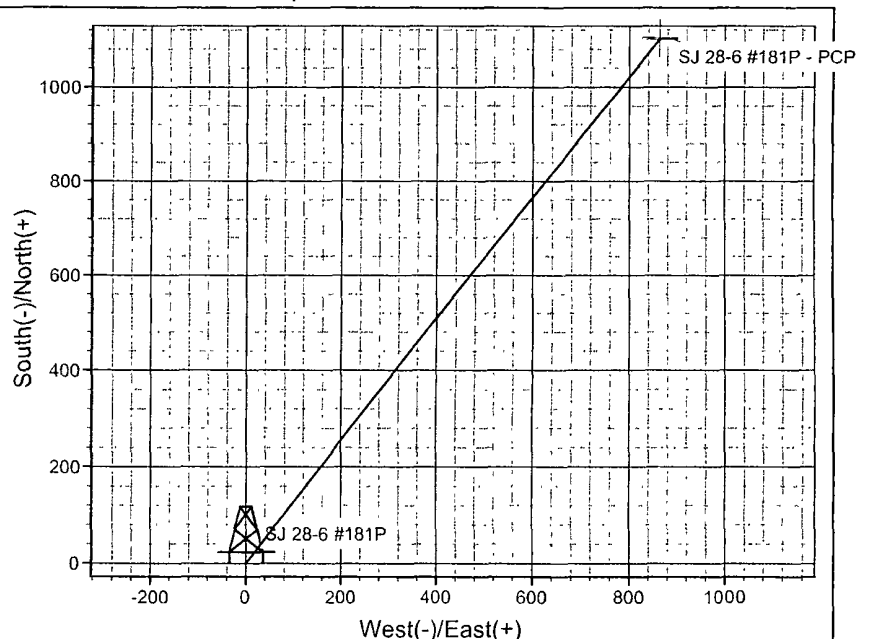
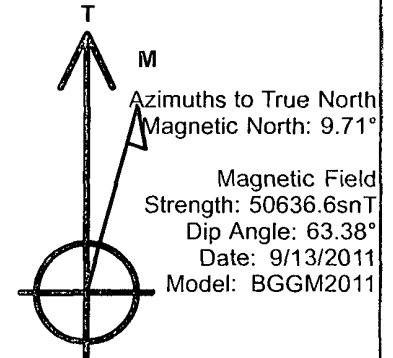
SECTION DETAILS

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	350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	
3	1902.4	31.05	38.09	1827.5	323.0	253.2	2.00	38.09	410.4	
4	3288.4	31.05	38.09	3015.0	885.7	694.1	0.00	0.00	1125.3	
5	4323.3	0.00	0.00	4000.0	1101.0	862.9	3.00	180.00	1398.9	SJ 28-6 #181P - ICP
6	7992.3	0.00	0.00	7669.0	1101.0	862.9	0.00	0.00	1398.9	SJ 28-6 #181P - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1022.0	1028.3	Nacimiento
2490.0	2675.6	Ojo Alamo
2672.0	2888.1	Kirtland
2879.0	3129.7	Fruitland
3230.0	3530.8	Pictured Cliffs
3342.0	3651.6	Lewis
3715.0	4037.3	Huerfano Bentonite
4170.0	4493.3	Chacra
4794.0	5117.3	Upper Cliffhouse
4885.0	5208.3	Massive Cliffhouse
5024.0	5347.3	Menefee
5389.0	5712.3	Pt. Lookout
5879.0	6202.3	Mancos Shale
6578.0	6901.3	Gallup
7335.0	7658.3	Greenhorn
7400.0	7723.3	Graneros
7437.0	7760.3	Two Wells
7492.0	7815.3	Paguate
7548.0	7871.3	Upper Cubero
7586.0	7909.3	Lower Cubero
7660.0	7983.3	Oak Canyon
7668.9	7992.2	Total Depth



BURLINGTON RESOURCES OIL & GAS COMPANY LP
SAN JUAN 28-6 UNIT 181P - 1813' FNL & 961' FWL (SURFACE)
715' FNL & 1810' FWL (BOTTOM HOLE)
SECTION 14, T-27-N, R-6-W, N.M.P.M., RIO ARriba COUNTY, N.M.
ELEVATION: 6482 - DATE: MARCH 17, 2011

SAN JUAN 28-6 UNIT 181P
 LATITUDE: 36.5764168° N
 LONGITUDE: 107.4421653° W
 NAD 83
 LATITUDE: 36°34.58446' N
 LONGITUDE: 107°26.49371' W
 NAD 27

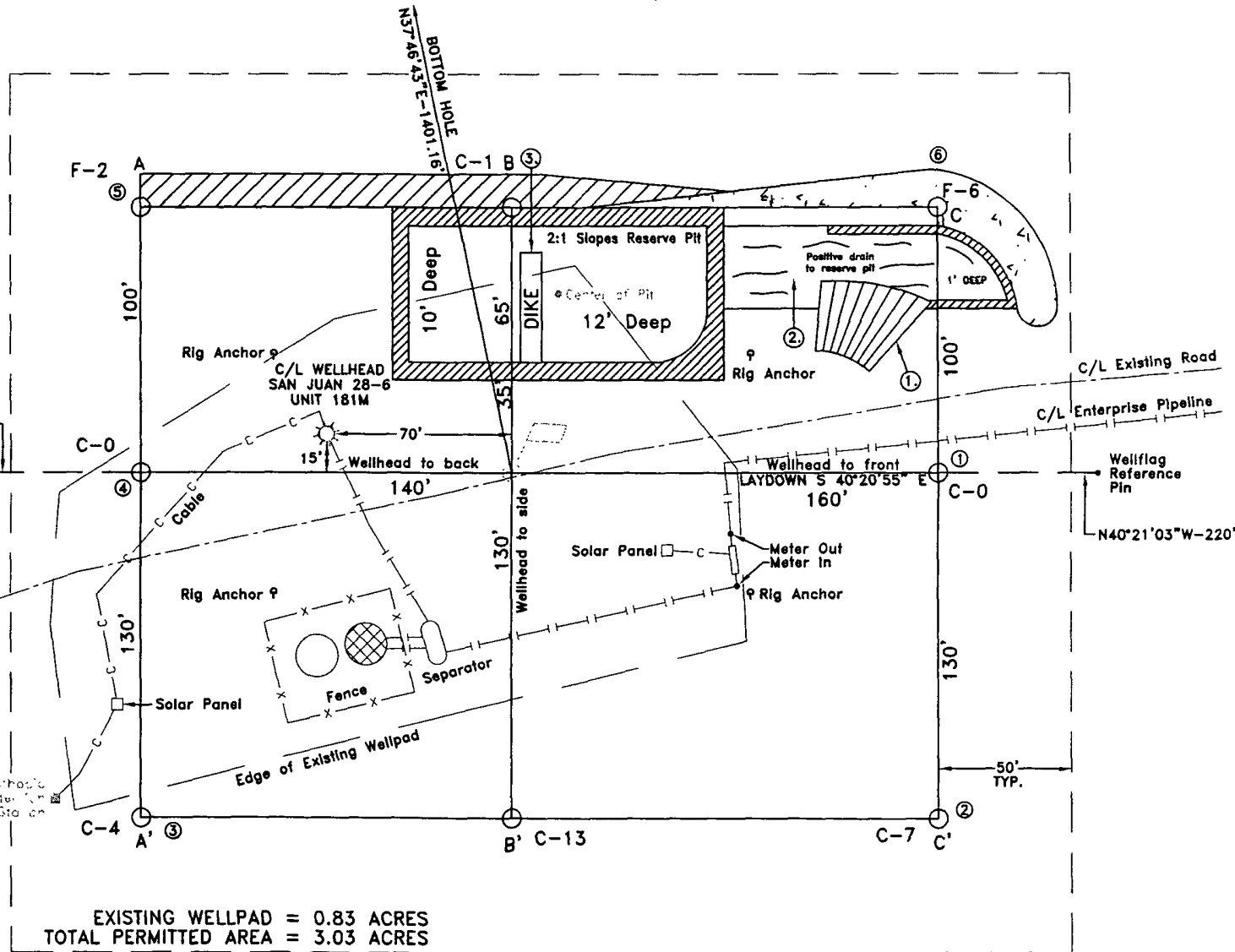
SAN JUAN 28-6 UNIT 181M
 LATITUDE: 36.5765898° N
 LONGITUDE: 107.4422811° W
 NAD 83
 LATITUDE: 36°34.59484' N
 LONGITUDE: 107°26.50066' W
 NAD 27

CENTER OF P.I.
 LATITUDE: 36.5764994° N
 LONGITUDE: 107.4419510° W
 NAD 83
 LATITUDE: 36°34.58942' N
 LONGITUDE: 107°26.48086' W
 NAD 27
 ELEVATION: 6470

CATHODIC PROTECTION STATION
 LATITUDE: 36.5765626° N
 LONGITUDE: 107.4428643° W
 NAD 83
 LATITUDE: 36°34.59321' N
 LONGITUDE: 107°26.53566' W
 NAD 27

T.N. 0°13'59"
 G.N.
 G.N.=GRID NORTH
 T.N.=TRUE NORTH
 CONVERGENCE AT
 SURFACE LOCATION

0 30 60
 SCALE: 1"=60'



EXISTING WELLPAD = 0.83 ACRES
 TOTAL PERMITTED AREA = 3.03 ACRES

NOTES:

- 1.) BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83.
- 2.) CONTRACTOR SHOULD CONTACT "ONE-CALL" FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.
- 3.) UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

UNITED FIELD SERVICES INC.		P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505) 334-0408	
DWG. NO. : 9941101		REVISION: 1	
DRAWN BY: C.B.	DATE DRAWN: 03/22/11	REV. DATE:	
SURVEYED: 03/17/11	APP. BY: M.W.L.	SHEET: 1	

PAD CONSTRUCTION SPECS:

1. RAMP INTO PIT CONSTRUCTED FROM PAD GRADE INTO FLARE AREA AT 5% SLOPE.
2. APPROXIMATE 13'x75' PIT AREA LINED WITH 12 MIL POLYLINER.
3. RESERVE PIT DIKE TO BE 6' ABOVE DEEP SIDE (OVERFLOW- 3' WIDE AND 1' ABOVE SHALLOW SIDE).

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-6 UNIT 181P

1813' FNL & 961' FWL (SURFACE)

715' FNL & 1810' FWL (BOTTOM HOLE)

LATITUDE: 36.5764168° N

LONGITUDE: 107.4421653° W

NAD 83

SECTION 14, T-27-N, R-6-W, N.M.P.M.

RIO ARriba COUNTY, NEW MEXICO

FROM THE INTERSECTION OF U.S. HIGHWAY 64 AND NORTH FIRST STREET
(US HIGHWAY 550) IN BLOOMFIELD, NEW MEXICO.

TRAVEL EASTERLY ON U.S. HIGHWAY 64 FOR 36.5 MILES.

TURN RIGHT ONTO GENERAL AMERICAN ROAD & TRAVEL
SOUTHERLY 5.7 MILES.

TURN RIGHT & TRAVEL SOUTHWESTERLY 4.3 MILES
THROUGH MUNOZ CANYON.

AT A FOUR WAY INTERSECTION, CONTINUE SOUTHWESTERLY 0.3 MILE,
CROSSING CARRIZO WASH, BEAR LEFT & TRAVEL SOUTHEASTERLY ON
COUNTY ROAD 492, 0.4 MILE TO "Y" INTERSECTION.

TURN RIGHT & TRAVEL 1.4 MILES THROUGH MARTINEZ CANYON.

TURN LEFT & TRAVEL NORTHEASTERLY 0.2 MILE UP MESA.

TURN RIGHT & TRAVEL SOUTHERLY, THEN EASTERLY 0.7 MILE.

TURN LEFT & TRAVEL NORTHERLY, THEN WESTERLY 0.6 MILE.

BEAR RIGHT AT "Y" INTERSECTION & TRAVEL NORTHEASTERLY 0.3 MILE
TO "Y" INTERSECTION. TURN RIGHT & TRAVEL EASTERLY 0.3 MILE TO
EXISTING SAN JUAN 28-6 UNIT 181M WELL LOCATION & PROPOSED
SAN JUAN 28-6 UNIT 181P WELL LOCATION.