

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 27 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number SF-080711-A 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 9. Well Number 57M
4. Location of Well Surface: Unit D (NWNW), 645' FNL & 835' FWL BHL : Unit E (SWNW), 2165' FNL & 710' FWL Surface: Latitude: 36.78909° N (NAD83) Longitude: 107.51044° W BHL : Latitude: 36.78492° N (NAD83) Longitude: 107.51087° W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 30, T30N, R6W API # 30-039-31092
14. Distance in Miles from Nearest Town 13 miles to Gobernador	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 645'	13. State NM
16. Acres in Lease 924.530	17. Acres Assigned to Well NOV 23 '11 320.00 acres (W/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 780' SJ 30-6 #481S (FC)	20. Rotary or Cable Tools Rotary
19. Proposed Depth 7656'	21. Elevations (DF, FT, GR, Etc.) 6228' GL
23. Proposed Casing and Cementing Program See Operations Plan attached	22. Approx. Date Work will Start DIGT 3
24. Authorized by: <u>Arleen Kellywood</u> Arleen Kellywood (Staff Regulatory Tech)	Date 9/27/11

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENTHold C104
for Directional Survey
and "As Drilled" plat

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.

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 3165.4
and appeal pursuant to 43 CFR 3165.4NMOOD
AVDRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".Hold C104
for Directional Survey
and "As Drilled" plat

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

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039- 31092	*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 7469	*Property Name SAN JUAN 30-6 UNIT	*Well Number 57M
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	*Elevation 6228'

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
D	30	30N	6W		645	NORTH	835	WEST	RIO ARriba

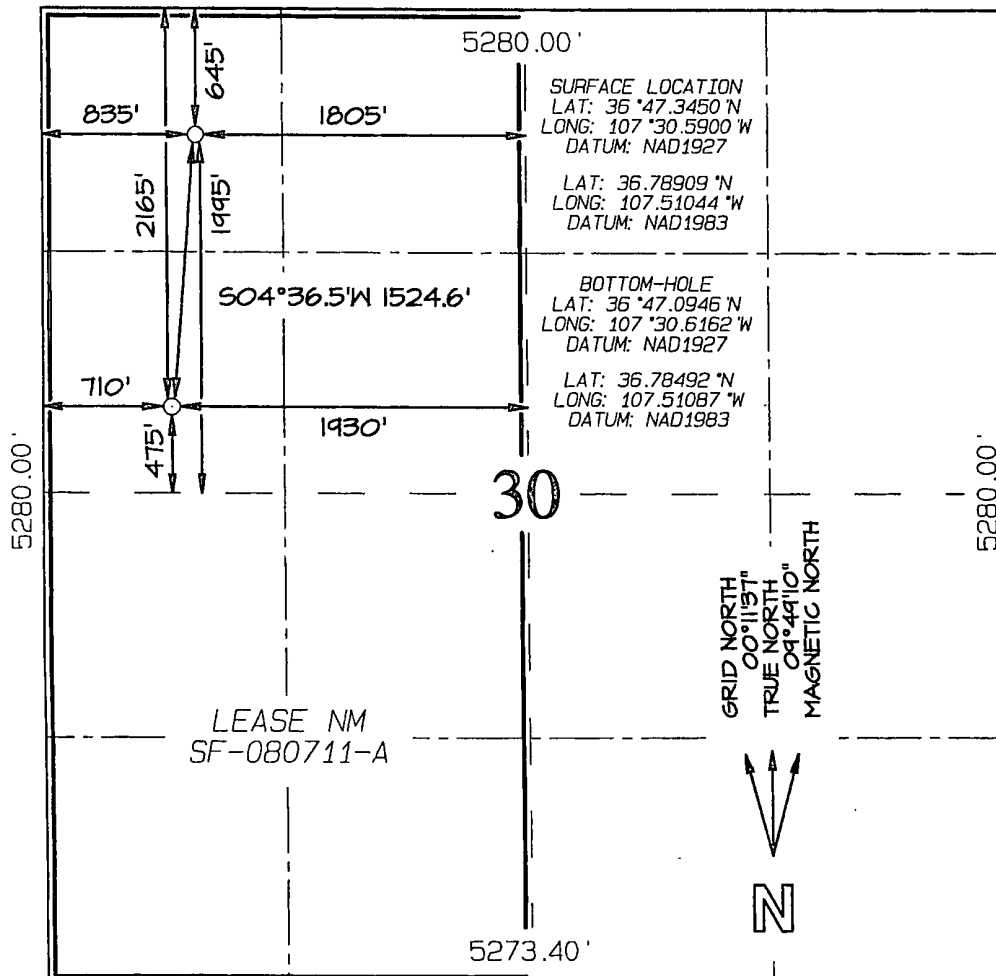
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	30	30N	6W		2165	NORTH	710	WEST	RIO ARriba

¹² Dedicated Acres 320.0 Acres - (W/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

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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.

Arleen R. Kellywood 4/28/11
Signature Date
Arleen R. Kellywood
Printed Name

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: APRIL 19, 2011
Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-6 UNIT 57M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9396				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 920		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: 36.789084	Longitude: -107.509834	X:	Y:	Section: 30		Range: 006W	
Footage X: 835 FWL	Footage Y: 645 FNL	Elevation: 6228	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional:							
Latitude: 36.784914	Longitude: -107.510264	X:	Y:	Section: 30		Range: 06W	
Footage X: 850 FWL	Footage Y: 680 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 = 6243 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6043	200	☐		56	12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	942	5301		☐			
OJO ALAMO	2255	3988		☐			
KIRTLAND	2347	3896		☐			
FRUITLAND	2713	3530		☐	68		Possible Gas
PICTURED CLIFFS	3161	3082		☐	1058		
LEWIS	3264	2979		☐			
HUERFANITO BENTONITE	3857	2386		☐			
Intermediate Casing	4050	2193	4407	☐		126	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1003 cuft. Circulate cement to surface.
CHACRA	4198	2045		☐			
UPPER CLIFF HOUSE	4779	1464		☐			Gas
MASSIVE CLIFF HOUSE	5002	1241		☐	367		Gas
MENEFEE	5060	1183		☐		166	
POINT LOOKOUT	5367	876		☐			
MANCOS	5737	506		☐			
UPPER GALLUP	6617	-374		☐			
GREENHORN	7358	-1115		☐			
GRANEROS	7411	-1168		☐			
TWO WELLS	7496	-1253		☐	3300	222	Gas
PAGUATE	7540	-1297		☐			Gas
UPPER CUBERO	7543	-1300		☐			Gas

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-6 UNIT 57M

DEVELOPMENT

LOWER CUBERO	7578	-1335	☐	Gas
ENCINAL	7620	-1377	☐	Gas - Bottom perf -1393 base on offset well San Juan 30-6 76A
Total Depth	7656	-1413	8013 ☐	227 6-1/4" hole, 4-1/2" 11.6 ppf, L80 LTC/BTC casing. Cement w/ 454 cuft. Circulate cement a minimum of 100' inside the previous casing string.
BURRO CANYON	7699	-1456	☐	
MORRISON	7744	-1501	☐	

Reference Wells:

Reference Type	Well Name	Comments
Production	SAN JUAN 30-6 UNIT 76A	
Production	SAN JUAN 30-6 129	

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

GR CBL.
Mud log ~100' above Gallup down to TD.
Mudlogger will call TD.
Bottom perf ~20' above TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips SJB

San Juan Basin - New Mexico Central Wells

San Juan 30 Wells

SJ 30-6 #57M

SJ 30-6 #57M

Plan: Plan #1

Standard Planning Report

15 September, 2011

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-6 #57M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6243.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6243.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-6 #57M	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-6 #57M		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico Central 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 Central 3002		Using geodetic scale factor

Site:	San Juan 30 Wells, Township 30		
Site Position:		Northing:	2,105,283.49 ft
From:	Lat/Long	Easting:	113,791.42 ft
Position Uncertainty:	3.5 ft	Slot Radius:	6-1/8"
		Latitude:	36° 46' 42.851 N
		Longitude:	107° 30' 35.400 W
		Grid Convergence:	-0.79 °

Well:	SJ 30-6 #57M, Directional S Curve - Long		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	3.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 47' 20.700 N
		Longitude:	107° 30' 35.400 W
		Ground Level:	6,228.0 ft

Wellbore:	SJ 30-6 #57M		
Magnetics:	Model Name	Sample Date	Declination
			(°)
	BGGM2010	9/14/2011	9.74
			Dip/Angle
			(°)
			Field Strength
			(nT)
			63.58
			50,763

Design:	Plan #1		
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
			(°)
			184.81

Plan Sections:										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(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	
1,333.6	29.51	184.81	1,290.7	-246.9	-20.8	3.00	3.00	0.00	184.81	
3,423.3	29.51	184.81	3,109.3	-1,272.5	-107.1	0.00	0.00	0.00	0.00	
4,406.9	0.00	0.00	4,050.0	-1,519.4	-127.9	3.00	-3.00	0.00	180.00	SJ 30-6 57M ICP
8,012.9	0.00	0.00	7,656.0	-1,519.4	-127.9	0.00	0.00	0.00	0.00	SJ 30-6 57M PCP

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-6 #57M
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6243.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6243.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-6 #57M	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-6 #57M		
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	
Surface										
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 50	184.81	400 0	-0.7	-0.1	0 7	3 00	3 00	0 00	
500 0	4 50	184.81	499.8	-5.9	-0.5	5 9	3 00	3 00	0 00	
600 0	7.50	184.81	599.3	-16.3	-1.4	16 3	3 00	3 00	0 00	
700 0	10.50	184.81	698 0	-31.9	-2.7	32 0	3 00	3 00	0 00	
800 0	13.50	184.81	795.8	-52.6	-4.4	52 8	3 00	3.00	0 00	
900 0	16.50	184.81	892.4	-78.4	-6.6	78 6	3 00	3.00	0 00	
951.9	18.06	184.81	942.0	-93.7	-7.9	94 1	3 00	3.00	0 00	
Nacimiento										
1,000 0	19.50	184.81	987.5	-109.2	-9.2	109 5	3 00	3.00	0 00	
1,100 0	22.50	184.81	1,080.9	-144.9	-12.2	145 4	3 00	3 00	0 00	
1,200.0	25.50	184.81	1,172.2	-185.4	-15.6	186 0	3.00	3 00	0 00	
1,300.0	28.50	184.81	1,261.3	-230.6	-19.4	231 4	3 00	3 00	0 00	
1,333.6	29.51	184.81	1,290.7	-246.9	-20.8	247 8	3 00	3 00	0 00	
1,400.0	29.51	184.81	1,348.5	-279.5	-23.5	280.4	0 00	0 00	0 00	
1,500 0	29.51	184.81	1,435.5	-328.5	-27.7	329 7	0 00	0 00	0 00	
1,600 0	29.51	184.81	1,522.5	-377.6	-31.8	379 0	0 00	0 00	0 00	
1,700 0	29.51	184.81	1,609.6	-426.7	-35.9	428 2	0 00	0 00	0 00	
1,800.0	29.51	184.81	1,696.6	-475.8	-40.0	477.5	0 00	0 00	0 00	
1,900 0	29.51	184.81	1,783.6	-524.9	-44.2	526.7	0 00	0 00	0 00	
2,000 0	29.51	184.81	1,870.6	-574.0	-48.3	576.0	0 00	0 00	0 00	
2,100 0	29.51	184.81	1,957.7	-623.0	-52.4	625.2	0 00	0 00	0 00	
2,200.0	29.51	184.81	2,044.7	-672.1	-56.6	674.5	0 00	0 00	0 00	
2,300 0	29.51	184.81	2,131.7	-721.2	-60.7	723.8	0 00	0 00	0 00	
2,400 0	29.51	184.81	2,218.8	-770.3	-64.8	773.0	0 00	0 00	0 00	
2,441.7	29.51	184.81	2,255.0	-790.7	-66.6	793.5	0 00	0 00	0 00	
Ojo Alamo										
2,500.0	29.51	184.81	2,305.8	-819.4	-69.0	822.3	0 00	0 00	0 00	
2,547.4	29.51	184.81	2,347.0	-842.6	-70.9	845.6	0 00	0 00	0 00	
Kirtland										
2,600 0	29.51	184.81	2,392.8	-868.5	-73.1	871.5	0 00	0 00	0 00	
2,700 0	29.51	184.81	2,479.8	-917.5	-77.2	920.8	0 00	0 00	0 00	
2,800 0	29.51	184.81	2,566.9	-966.6	-81.4	970.0	0 00	0 00	0 00	
2,900 0	29.51	184.81	2,653.9	-1,015.7	-85.5	1,019.3	0 00	0 00	0 00	
2,967.9	29.51	184.81	2,713.0	-1,049.0	-88.3	1,052.7	0 00	0 00	0 00	
Fruitland										
3,000 0	29.51	184.81	2,740.9	-1,064.8	-89.6	1,068.5	0 00	0 00	0 00	
3,100 0	29.51	184.81	2,827.9	-1,113.9	-93.7	1,117.8	0 00	0 00	0 00	
3,200 0	29.51	184.81	2,915.0	-1,163.0	-97.9	1,167.1	0 00	0 00	0 00	
3,300 0	29.51	184.81	3,002.0	-1,212.0	-102.0	1,216.3	0 00	0 00	0 00	
3,400 0	29.51	184.81	3,089.0	-1,261.1	-106.1	1,265.6	0 00	0 00	0 00	
3,423.3	29.51	184.81	3,109.3	-1,272.5	-107.1	1,277.0	0 00	0 00	0 00	
3,482.2	27.74	184.81	3,161.0	-1,300.7	-109.5	1,305.3	3 00	-3.00	0 00	
PC										
3,500 0	27.21	184.81	3,176.8	-1,308.9	-110.2	1,313.5	3 00	-3.00	0 00	
3,596.8	24.30	184.81	3,264.0	-1,350.8	-113.7	1,355.6	3 00	-3.00	0 00	
Lewis										
3,600.0	24.21	184.81	3,266.9	-1,352.1	-113.8	1,356.9	3.00	-3.00	0 00	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-6 #57M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6243.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6243.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-6 #57M	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-6 #57M		
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)	
3,700.0	21.21	184.81	3,359.1	-1,390.5	-117.0	1,395.5	3.00	-3.00	0.00	
3,800.0	18.21	184.81	3,453.3	-1,424.1	-119.9	1,429.2	3.00	-3.00	0.00	
3,900.0	15.21	184.81	3,549.0	-1,452.8	-122.3	1,457.9	3.00	-3.00	0.00	
4,000.0	12.21	184.81	3,646.2	-1,476.4	-124.3	1,481.6	3.00	-3.00	0.00	
4,100.0	9.21	184.81	3,744.4	-1,494.9	-125.8	1,500.2	3.00	-3.00	0.00	
4,200.0	6.21	184.81	3,843.5	-1,508.3	-126.9	1,513.6	3.00	-3.00	0.00	
4,213.6	5.80	184.81	3,857.0	-1,509.7	-127.1	1,515.0	3.00	-3.00	0.00	
Huerfano Bentonite										
4,300.0	3.21	184.81	3,943.2	-1,516.4	-127.6	1,521.8	3.00	-3.00	0.00	
4,400.0	0.21	184.81	4,043.1	-1,519.4	-127.9	1,524.8	3.00	-3.00	0.00	
4,406.9	0.00	0.00	4,050.0	-1,519.4	-127.9	1,524.8	3.00	-3.00	0.00	
Intermediate - SJ 30-6 57M ICP										
4,500.0	0.00	0.00	4,143.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
4,554.9	0.00	0.00	4,198.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Chacra										
4,600.0	0.00	0.00	4,243.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,343.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,443.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,543.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,643.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
5,100.0	0.00	0.00	4,743.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
5,135.9	0.00	0.00	4,779.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Upper Cliff House										
5,200.0	0.00	0.00	4,843.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
5,300.0	0.00	0.00	4,943.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
5,358.9	0.00	0.00	5,002.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Massive Cliff House										
5,400.0	0.00	0.00	5,043.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
5,416.9	0.00	0.00	5,060.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Menefee										
5,500.0	0.00	0.00	5,143.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,243.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,343.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
5,723.9	0.00	0.00	5,367.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Point Lookout										
5,800.0	0.00	0.00	5,443.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,543.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,643.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
6,093.9	0.00	0.00	5,737.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Mancos										
6,100.0	0.00	0.00	5,743.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
6,200.0	0.00	0.00	5,843.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
6,300.0	0.00	0.00	5,943.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,043.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,143.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,243.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,343.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,443.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,543.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
6,973.9	0.00	0.00	6,617.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Gallup										
7,000.0	0.00	0.00	6,643.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,743.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-6 #57M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6243.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6243.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-6 #57M	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-6 #57M		
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	6,843.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
7,300.0	0.00	0.00	6,943.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,043.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,143.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,243.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,343.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
7,714.9	0.00	0.00	7,358.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Greenhorn										
7,767.9	0.00	0.00	7,411.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Graneros										
7,800.0	0.00	0.00	7,443.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
7,852.9	0.00	0.00	7,496.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Two Wells										
7,896.9	0.00	0.00	7,540.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Paguate										
7,899.9	0.00	0.00	7,543.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Upper Cubero										
7,900.0	0.00	0.00	7,543.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
7,934.9	0.00	0.00	7,578.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Lower Cubero										
7,976.9	0.00	0.00	7,620.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Encinal										
8,000.0	0.00	0.00	7,643.1	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
8,012.9	0.00	0.00	7,656.0	-1,519.4	-127.9	1,524.8	0.00	0.00	0.00	
Production - SJ 30-6 57M 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 30-6 57M PCP		0.00	0.00	7,656.0	-1,519.4	-127.9	2,107,361.02	130,945.63	36° 47' 5.676 N	107° 30' 36.972 W
- plan hits target center										
- Point										
SJ 30-6 57M ICP		0.00	0.00	4,050.0	-1,519.4	-127.9	2,107,361.00	130,945.65	36° 47' 5.676 N	107° 30' 36.972 W
- plan hits target center										
- Point										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
200.0	200.0	Surface	9-5/8	12-1/4		
4,406.9	4,050.0	Intermediate	7	8-3/4		
8,012.9	7,656.0	Production	4-1/2	6-1/4		

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Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-6 #57M
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6243 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6243 0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-6 #57M	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-6 #57M		
Design:	Plan #1		

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	2,967.9	2,713.0	Fruitland		0.00	
	7,896.9	7,540.0	Paguate		0.00	
	4,554.9	4,198.0	Chacra		0.00	
	5,416.9	5,060.0	Menefee		0.00	
	5,723.9	5,367.0	Point Lookout		0.00	
	2,441.7	2,255.0	Ojo Alamo		0.00	
	7,934.9	7,578.0	Lower Cubero		0.00	
	3,596.8	3,264.0	Lewis		0.00	
	3,482.2	3,161.0	PC		0.00	
	7,714.9	7,358.0	Greenhorn		0.00	
	6,093.9	5,737.0	Mancos		0.00	
	7,767.9	7,411.0	Graneros		0.00	
	2,547.4	2,347.0	Kirtland		0.00	
	7,976.9	7,620.0	Encinal		0.00	
	7,899.9	7,543.0	Upper Cubero		0.00	
	7,852.9	7,496.0	Two Wells		0.00	
	6,973.9	6,617.0	Gallup		0.00	
	4,213.6	3,857.0	Huerfano Bentonite		0.00	
	951.9	942.0	Nacimiento		0.00	
	5,135.9	4,779.0	Upper Cliff House		0.00	
	5,358.9	5,002.0	Massive Cliff House		0.00	

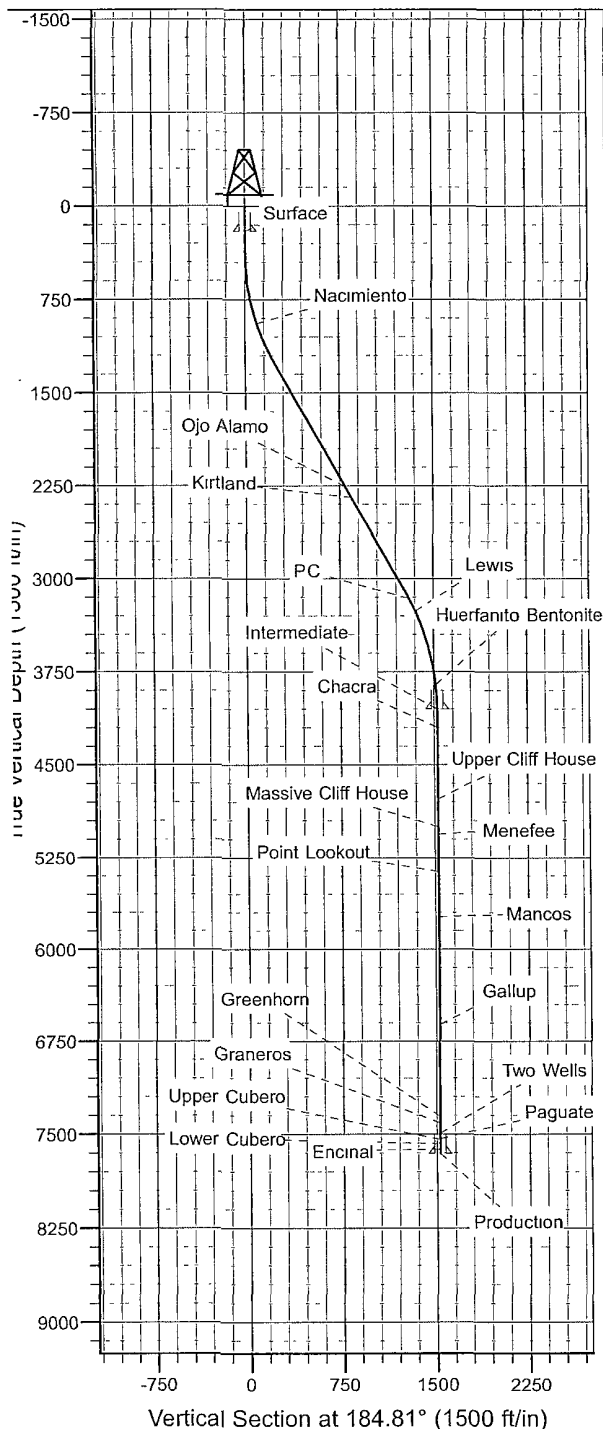
ELL @ 6243.0ft (Original Well Elev)
 round Elevation 6228.0
 Reference Lat: 36° 47' 20.700 N
 Reference Long: 107° 30' 35.400 W

Site: San Juan 30 Wells
 Well: SJ 30-6 #57M
 Wellbore: SJ 30-6 #57M
 Design: Plan #1



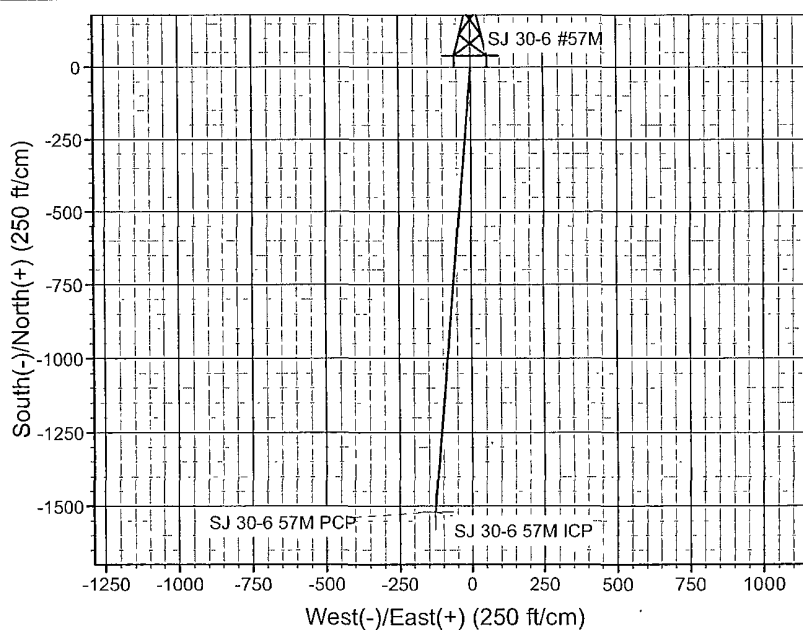
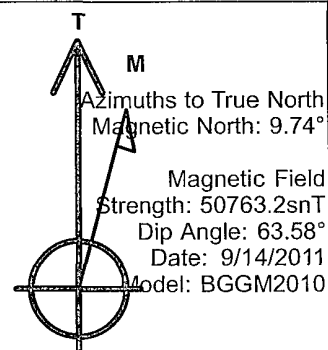
SECTION DETAILS

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	350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	
3	1333.6	29.51	184.81	1290.7	-246.9	-20.8	3.00	184.81	247.8	
4	3423.3	29.51	184.81	3109.3	-1272.5	-107.1	0.00	0.00	1277.0	
5	4406.9	0.00	0.00	4050.0	-1519.4	-127.9	3.00	180.00	1524.8	SJ 30-6 57M ICP
6	8012.9	0.00	0.00	7656.0	-1519.4	-127.9	0.00	0.00	1524.8	SJ 30-6 57M PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
942.0	951.9	Nacimiento
2255.0	2441.7	Ojo Alamo
2347.0	2547.4	Kirtland
2713.0	2967.9	Fruitland
3161.0	3482.2	PC
3264.0	3596.8	Lewis
3857.0	4213.6	Huerfano Bentonite
4198.0	4554.9	Chacra
4779.0	5135.9	Upper Cliff House
5002.0	5358.9	Massive Cliff House
5060.0	5416.9	Menefee
5367.0	5723.9	Point Lookout
5737.0	6093.9	Mancos
6617.0	6973.9	Gallup
7358.0	7714.9	Greenhorn
7411.0	7767.9	Graneros
7496.0	7852.9	Two Wells
7540.0	7896.9	Pagate
7543.0	7899.9	Upper Cubero
7578.0	7934.9	Lower Cubero
7620.0	7976.9	Encinal



Directions from the Intersection of US Hwy 64 & US Hwy 550 in Bloomfield, NM
to Burlington Resources Oil & Gas Company San Juan 30-6 Unit #57M
645' FNL & 835' FWL, Section 30, T30N, R6W, NMPM, Rio Arriba County, NM

Latitude : 36.78909°N Longitude : 107.51044°W Datum : NAD1983

From the intersection of US Hwy 64 & US Hwy 550 in Bloomfield, NM, travel Easterly on US Hwy 64 for 38.0 miles to State Hwy 527 (Simms Hwy);

Go left (North-westerly) on State Hwy 527 (Simms Hwy) for 11.0 miles to Werner Grade;

Go left (South-westerly) on Werner Grade for 0.1 miles to staked location on left-hand side of existing roadway.