

RCVD FEB 10 '12

OIL CONS. DIV.

DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED JAN 03 2012		5. Lease Number SF-080674 Unit Reporting Number
1b. Type of Well GAS			6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	Farmington Field Office Bureau of Land Management		7. Unit Agreement Name San Juan 27-4 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700			8. Farm or Lease Name 9. Well Number 56N
4. Location of Well Surface: Unit K(NESW), 1791' FSL & 1360' FWL BHL : Unit F(SENW), 1810' FNL & 1410' FWL Surface: Latitude: 36.556561° N (NAD83) Longitude: 107.260541° W BHL : Latitude: 36.561096° N (NAD83) Longitude: 107.260426° W	10. Field, Pool, Wildcat Blanco MV/Basin DK/Basin MC 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 21, T27N, R4W API # 30-039- 31105		
14. Distance in Miles from Nearest Town 55 miles from Bloomfield	12. County Rio Arriba	13. State NM	
15. Distance from Proposed Location to Nearest Property or Lease Line 1360'			
16. Acres in Lease 2560.000	17. Acres Assigned to Well 320.00		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 71.7' from SJ 27-4 Unit 78/PC			
19. Proposed Depth 8107'	20. Rotary or Cable Tools Rotary		
21. Elevations (DF, FT, GR, Etc.) 6799' GL	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>Arleen Kellywood</u> Arleen Kellywood (Staff Regulatory Tech)	1/3/12 Date		

Held C104
for Directional Survey
and "As Drilled" plat

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 2/8/12

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

FEB 20 2012 *ca*

n NMOCD

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, 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

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31105	² Pool Code 71599/72319/97232	³ Pool Name BLANCO BASIN DAKOTA / MESAVERDE / BASIN MANCOS
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	⁶ Well Number 56N
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6799

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	21	27-N	4-W		1791	SOUTH	1360	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
F	21	27-N	4-W		1810	NORTH	1410	WEST	RIO ARRIBA

¹² Dedicated Acres 320.00	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

¹⁶ CALC. COR. N 89°53'17" W WEST 5248.9' (CALC) 5280.0' (R)	2647.1' (CALC) 2629.1' (R)	CALC. 1/4 COR. BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION.
1410'	1810'	BOTTOM HOLE NAD 83 LAT: 36.561096° N LONG: 107.260426° W NAD 27 LAT: 36°33.665218' N LONG: 107°15.589673' W
N 0°49'41" E 1651.3'	W/2 DEDICATED ACREAGE USA SF-080674	WELL FLAG NAD 83 LAT: 36.556561° N LONG: 107.260541° W NAD 27 LAT: 36°33.393117' N LONG: 107°15.596557' W
1360'	1791'	SURVEYOR NOTE: THE SECTION CORNERS SHOWN ON THIS PLAT HAVE BEEN PROTRACTED USING EXISTING PLSS CORNERS ON THE EXTERIOR OF THE TOWNSHIP AND CERTAIN COMMONLY ACCEPTED INTERIOR SECTION CORNER POSITIONS AND BY DOUBLE PROPORTIONATE MEASUREMENTS.
N 0°54'01" W NORTH	CALC. WEST N 89°43'16" W	CALC. 1/4 COR.

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 Kellywood
Signature

Arleen Kellywood
Printed Name

arleen.r.kellywood@conocophillips.com
Title and E-mail Address

11/28/11
Date

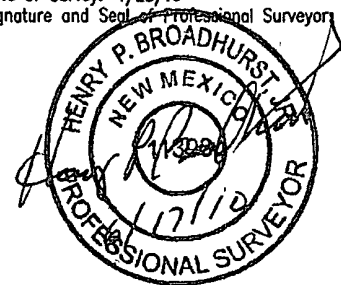
Date

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: 4/28/10

Signature and Seal of Professional Surveyor



Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 56N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8224				AFE \$:	
Field Name: SAN JUAN 27-4 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA	API #:	
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RCO085	MANCOS(RCO085)						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface		Datum Code: NAD 27				Directional	
Latitude: 36.556551	Longitude: -107.259942	X:	Y:	Section: 21	Range: 004W		
Footage X: 1360 FWL	Footage Y: 1791 FSL	Elevation: 6799	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional	
Latitude: 36.561086	Longitude: -107.259827	X:	Y:	Section: 21	Range: 004W		
Footage X: 1410 FWL	Footage Y: 1810 FNL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6814 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	230	6584	230	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1904	4910		☐			
OJO ALAMO	3100	3714		☐			
KIRTLAND	3220	3594		☐			
FRUITLAND	3301	3513		☐			Possible Gas
PICTURED CLIFFS	3694	3120		☐			
LEWIS	3759	3055		☐			
HUERFANITO BENTONITE	4092	2722		☐			
Intermediate Casing	4209	2605	4631	☐	120		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1038 cuft. Circulate cement to surface.
CHACRA	4639	2175		☐			Est. Top Perf - 4641 (2173)
UPPER CLIFF HOUSE	5193	1621		☐			Gas
MASSIVE CLIFF HOUSE	5385	1429		☐	816		Gas; Cliffhouse is dry
MENEFEE	5511	1303		☐			
POINT LOOKOUT	5838	976		☐			
MANCOS	6356	458		☐			
UPPER GALLUP	6994	-180		☐			
GREENHORN	7780	-966		☐			
GRANEROS	7842	-1028		☐			
TWO WELLS	7871	-1057		☐	2547		Gas
PAGUATE	7975	-1161		☐			
UPPER CUBERO	7991	-1177		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 56N

DEVELOPMENT

LOWER CUBERO	8042	-1228	☐	
OAK CANYON	8094	-1280	☐	Est. Btm Perf - 8092 (- 1278) based on offset wells
Total Depth	8107	-1293	8529	☐ 198 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 499 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	8112	-1298	☐	TD - 5' Above T/ENCN

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 27-4 UNIT-47P	27N 4W 20 SE SE NE
Production	SJ 27-4 UNIT-60M	27N 4W 21 SW NW NE
Production	SJ 27-4 UNIT-56	27N 4W 21 SE NW 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 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 SJ 27-4 #56N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6814.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6814.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #56N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #56N		
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 27 Wells
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Site Position:		Northing:	2,032,945.19ft	Latitude:	36° 35' 7.965 N
From:	Lat/Long	Easting:	677,235.72ft	Longitude:	107° 13' 46.766 W
Position Uncertainty:	15 0 ft	Slot Radius:	"	Grid Convergence:	0.36 °

Well:	SJ 27-4 #56N				
Well Position	+N/-S	0.0 ft	Northing:	2,022,335.87 ft	Latitude: 36° 33' 23.587 N
	+E/-W	0.0 ft	Easting:	668,406.96 ft	Longitude: 107° 15' 35.793 W
Position Uncertainty		3.5 ft	Wellhead Elevation:	ft	Ground Level: 6,799.0 ft

Wellbore:	SJ 27-4 #56N
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	12/19/2011	9.60	63.39	50,615

Design:	Plan #1
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Audit Notes:	
Version:	Phase: PROTOTYPE Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	1.17

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,040.9	34.42	1.17	1,939.2	501.4	10.2	2.00	2.00	0.00	1.17	
3,483.7	34.42	1.17	3,129.5	1,316.8	26.8	0.00	0.00	0.00	0.00	
4,631.0	0.00	0.00	4,209.0	1,651.0	33.7	3.00	-3.00	0.00	180.00	SJ 27-4 #56N ICP
8,529.0	0.00	0.00	8,107.0	1,651.0	33.7	0.00	0.00	0.00	0.00	SJ 27-4 #56N PCP

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #56N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6814.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6814.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #56N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #56N		
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
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.60	1.17	400.0	1.1	0.0	1.1	2.00	2.00	0.00
500.0	3.60	1.17	499.9	5.7	0.1	5.7	2.00	2.00	0.00
600.0	5.60	1.17	599.6	13.7	0.3	13.7	2.00	2.00	0.00
700.0	7.60	1.17	698.9	25.2	0.5	25.2	2.00	2.00	0.00
800.0	9.60	1.17	797.8	40.1	0.8	40.1	2.00	2.00	0.00
900.0	11.60	1.17	896.0	58.5	1.2	58.5	2.00	2.00	0.00
1,000.0	13.60	1.17	993.6	80.3	1.6	80.3	2.00	2.00	0.00
1,100.0	15.60	1.17	1,090.4	105.5	2.2	105.5	2.00	2.00	0.00
1,200.0	17.60	1.17	1,186.2	134.1	2.7	134.1	2.00	2.00	0.00
1,300.0	19.60	1.17	1,281.0	166.0	3.4	166.0	2.00	2.00	0.00
1,400.0	21.60	1.17	1,374.6	201.1	4.1	201.2	2.00	2.00	0.00
1,500.0	23.60	1.17	1,466.9	239.6	4.9	239.6	2.00	2.00	0.00
1,600.0	25.60	1.17	1,557.8	281.2	5.7	281.2	2.00	2.00	0.00
1,700.0	27.60	1.17	1,647.2	325.9	6.6	326.0	2.00	2.00	0.00
1,800.0	29.60	1.17	1,735.0	373.8	7.6	373.9	2.00	2.00	0.00
1,900.0	31.60	1.17	1,821.1	424.7	8.7	424.8	2.00	2.00	0.00
1,998.4	33.57	1.17	1,904.0	477.6	9.7	477.7	2.00	2.00	0.00
Nacimiento									
2,000.0	33.60	1.17	1,905.4	478.5	9.8	478.6	2.00	2.00	0.00
2,040.9	34.42	1.17	1,939.2	501.4	10.2	501.5	2.00	2.00	0.00
2,100.0	34.42	1.17	1,988.0	534.8	10.9	534.9	0.00	0.00	0.00
2,200.0	34.42	1.17	2,070.5	591.3	12.1	591.4	0.00	0.00	0.00
2,300.0	34.42	1.17	2,153.0	647.8	13.2	648.0	0.00	0.00	0.00
2,400.0	34.42	1.17	2,235.5	704.3	14.4	704.5	0.00	0.00	0.00
2,500.0	34.42	1.17	2,318.0	760.9	15.5	761.0	0.00	0.00	0.00
2,600.0	34.42	1.17	2,400.5	817.4	16.7	817.5	0.00	0.00	0.00
2,700.0	34.42	1.17	2,483.0	873.9	17.8	874.1	0.00	0.00	0.00
2,800.0	34.42	1.17	2,565.5	930.4	19.0	930.6	0.00	0.00	0.00
2,900.0	34.42	1.17	2,648.0	986.9	20.1	987.1	0.00	0.00	0.00
3,000.0	34.42	1.17	2,730.5	1,043.4	21.3	1,043.6	0.00	0.00	0.00
3,100.0	34.42	1.17	2,813.0	1,099.9	22.4	1,100.1	0.00	0.00	0.00
3,200.0	34.42	1.17	2,895.4	1,156.4	23.6	1,156.7	0.00	0.00	0.00
3,300.0	34.42	1.17	2,977.9	1,212.9	24.7	1,213.2	0.00	0.00	0.00
3,400.0	34.42	1.17	3,060.4	1,269.4	25.9	1,269.7	0.00	0.00	0.00
3,448.0	34.42	1.17	3,100.0	1,296.5	26.4	1,296.8	0.00	0.00	0.00
Ojo Alamo									
3,483.7	34.42	1.17	3,129.5	1,316.8	26.8	1,317.0	0.00	0.00	0.00
3,500.0	33.93	1.17	3,143.0	1,325.9	27.0	1,326.2	3.00	-3.00	0.00
3,591.4	31.19	1.17	3,220.0	1,375.1	28.0	1,375.4	3.00	-3.00	0.00
Kirtland									
3,600.0	30.93	1.17	3,227.4	1,379.5	28.1	1,379.8	3.00	-3.00	0.00
3,684.7	28.39	1.17	3,301.0	1,421.4	29.0	1,421.7	3.00	-3.00	0.00
Fruitland									
3,700.0	27.93	1.17	3,314.5	1,428.6	29.1	1,428.9	3.00	-3.00	0.00
3,800.0	24.93	1.17	3,404.0	1,473.1	30.0	1,473.4	3.00	-3.00	0.00
3,900.0	21.93	1.17	3,495.7	1,512.9	30.8	1,513.2	3.00	-3.00	0.00
4,000.0	18.93	1.17	3,589.4	1,547.8	31.6	1,548.1	3.00	-3.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #56N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6814.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6814.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #56N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #56N		
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)
4,100.0	15.93	1.17	3,684.8	1,577.7	32.2	1,578.0	3.00	-3.00	0.00
4,109.5	15.64	1.17	3,694.0	1,580.3	32.2	1,580.6	3.00	-3.00	0.00
Pictured Cliffs									
4,176.7	13.63	1.17	3,759.0	1,597.3	32.6	1,597.6	3.00	-3.00	0.00
Lewis									
4,200.0	12.93	1.17	3,781.7	1,602.6	32.7	1,602.9	3.00	-3.00	0.00
4,300.0	9.93	1.17	3,879.7	1,622.4	33.1	1,622.8	3.00	-3.00	0.00
4,400.0	6.93	1.17	3,978.6	1,637.1	33.4	1,637.4	3.00	-3.00	0.00
4,500.0	3.93	1.17	4,078.1	1,646.5	33.6	1,646.9	3.00	-3.00	0.00
4,513.9	3.51	1.17	4,092.0	1,647.4	33.6	1,647.8	3.00	-3.00	0.00
Huerfano Bentonite									
4,600.0	0.93	1.17	4,178.0	1,650.8	33.7	1,651.1	3.00	-3.00	0.00
4,631.0	0.00	0.00	4,209.0	1,651.0	33.7	1,651.4	3.00	-3.00	0.00
Intermediate - SJ 27-4 #56N ICP									
4,700.0	0.00	0.00	4,278.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
4,800.0	0.00	0.00	4,378.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,478.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,578.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
5,061.0	0.00	0.00	4,639.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
Chacra									
5,100.0	0.00	0.00	4,678.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
5,200.0	0.00	0.00	4,778.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
5,300.0	0.00	0.00	4,878.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
5,400.0	0.00	0.00	4,978.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,078.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,178.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
5,615.0	0.00	0.00	5,193.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
Upper Cliff House									
5,700.0	0.00	0.00	5,278.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,378.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
5,807.0	0.00	0.00	5,385.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
Massive Cliff House									
5,900.0	0.00	0.00	5,478.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
5,933.0	0.00	0.00	5,511.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
Menefee									
6,000.0	0.00	0.00	5,578.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
6,100.0	0.00	0.00	5,678.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
6,200.0	0.00	0.00	5,778.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
6,260.0	0.00	0.00	5,838.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
Pt. Lookout									
6,300.0	0.00	0.00	5,878.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
6,400.0	0.00	0.00	5,978.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,078.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,178.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
6,700.0	0.00	0.00	6,278.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
6,778.0	0.00	0.00	6,356.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
Mancos Shale									
6,800.0	0.00	0.00	6,378.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,478.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,578.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
7,100.0	0.00	0.00	6,678.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00
7,200.0	0.00	0.00	6,778.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #56N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6814.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6814.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #56N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #56N		
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)	
7,300.0	0.00	0.00	6,878.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
7,400.0	0.00	0.00	6,978.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
7,416.0	0.00	0.00	6,994.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
Gallup										
7,500.0	0.00	0.00	7,078.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,178.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,278.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,378.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,478.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,578.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,678.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
8,200.0	0.00	0.00	7,778.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
8,202.0	0.00	0.00	7,780.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
Greenhorn										
8,264.0	0.00	0.00	7,842.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
Graneros										
8,293.0	0.00	0.00	7,871.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
Two Wells										
8,300.0	0.00	0.00	7,878.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
8,397.0	0.00	0.00	7,975.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
Pauguate										
8,400.0	0.00	0.00	7,978.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
8,413.0	0.00	0.00	7,991.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
Upper Cubero										
8,464.0	0.00	0.00	8,042.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
Lower Cubero										
8,500.0	0.00	0.00	8,078.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
8,516.0	0.00	0.00	8,094.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
Oak Canyon										
8,529.0	0.00	0.00	8,107.0	1,651.0	33.7	1,651.4	0.00	0.00	0.00	
Production - SJ 27-4 #56N 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 27-4 #56N ICP		0.00	0.00	4,209.0	1,651.0	33.7	2,023,986.99	668,430.78	36° 33' 39.913 N	107° 15' 35.380 W
- plan hits target center										
- Point										
SJ 27-4 #56N PCP		0.00	0.00	8,107.0	1,651.0	33.7	2,023,986.96	668,430.82	36° 33' 39.913 N	107° 15' 35.380 W
- plan hits target center										
- Point										

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #56N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6814.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6814.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #56N	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #56N		
Design:	Plan #1		

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
200.0	200.0	Surface	9-5/8	12-1/4
4,631.0	4,209.0	Intermediate	7	8-3/4
8,529.0	8,107.0	Production	4-1/2	6-1/4

Formations				
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip Direction (°)
8,464.0	8,042.0	Lower Cubero		
5,615.0	5,193.0	Upper Cliff House		
8,516.0	8,094.0	Oak Canyon		
5,933.0	5,511.0	Menefee		
5,061.0	4,639.0	Chacra		
7,416.0	6,994.0	Gallup		
5,807.0	5,385.0	Massive Cliff House		
8,413.0	7,991.0	Upper Cubero		
3,448.0	3,100.0	Ojo Alamo		
8,264.0	7,842.0	Graneros		
8,202.0	7,780.0	Greenhorn		
3,591.4	3,220.0	Kirtland		
1,998.4	1,904.0	Nacimiento		
4,109.5	3,694.0	Pictured Cliffs		
8,293.0	7,871.0	Two Wells		
4,176.7	3,759.0	Lewis		
8,397.0	7,975.0	Pauguate		
6,778.0	6,356.0	Mancos Shale		
6,260.0	5,838.0	Pt. Lookout		
4,513.9	4,092.0	Huerfanito Bentonite		
3,684.7	3,301.0	Fruitland		

REFERENCE INFORMATION

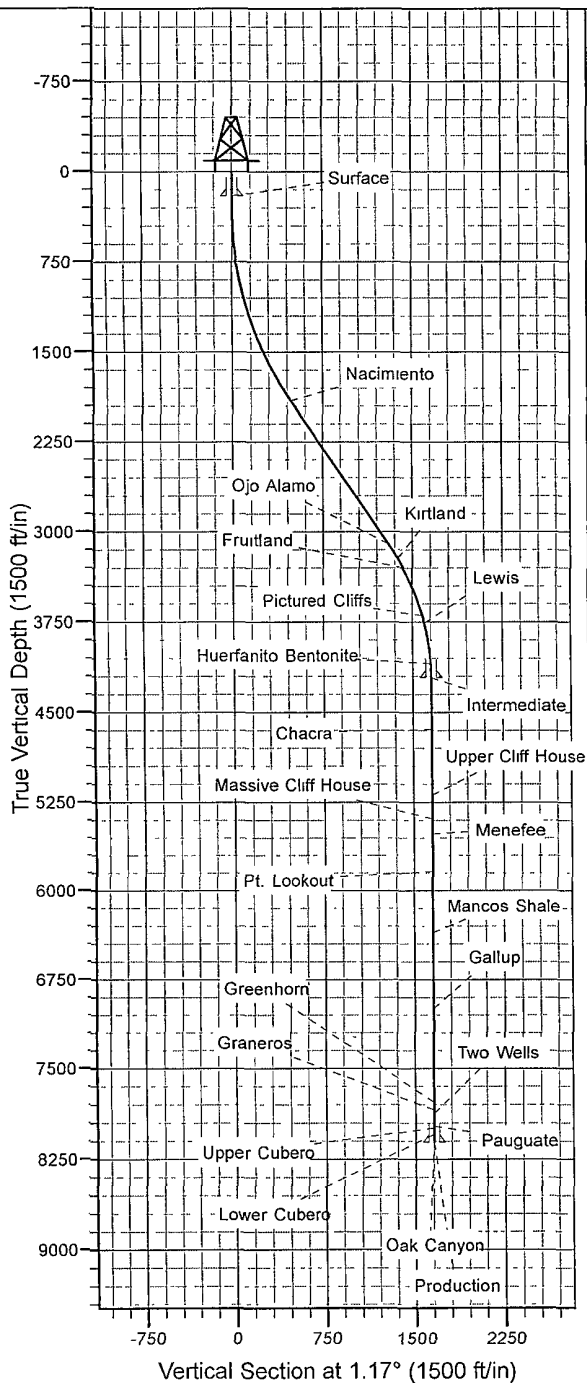
WELL @ 6814.0ft (Original Well Elev)
Ground Elevation 6799.0
Reference Lat: 36° 33' 23.587 N
Reference Long: 107° 15' 35.793 W

Project: San Juan Basin - New Mexico West W
Site: San Juan 27 Wells
Well: SJ 27-4 #56N
Wellbore: SJ 27-4 #56N
Design: Plan #1



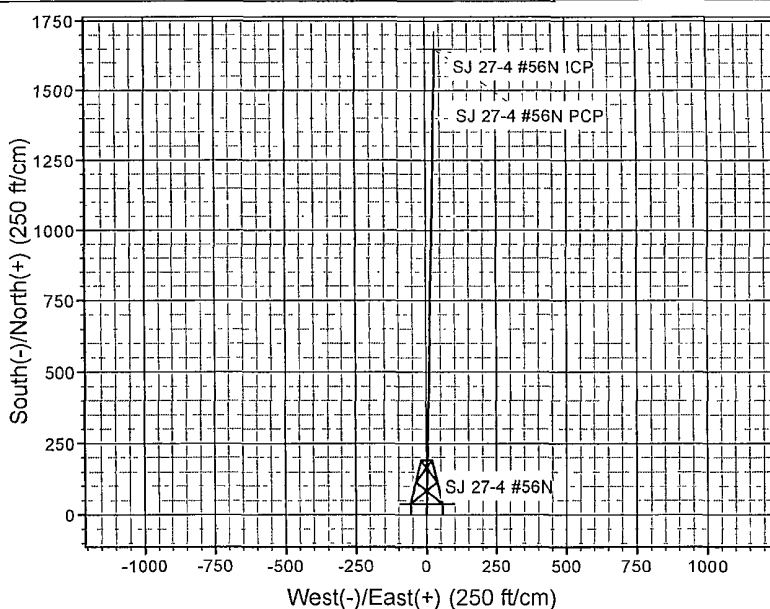
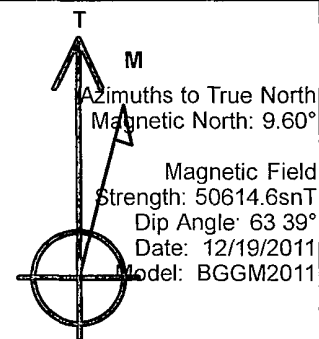
SECTION DETAILS

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	2040.9	34.42	1.17	1939.2	501.4	10.2	2.00	1.17	501.5	
4	3483.7	34.42	1.17	3129.5	1316.8	26.8	0.00	0.00	1317.0	
5	4631.0	0.00	0.00	4209.0	1651.0	33.7	3.00	180.00	1651.4	SJ 27-4 #56N ICP
6	8529.0	0.00	0.00	8107.0	1651.0	33.7	0.00	0.00	1651.4	SJ 27-4 #56N PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1904.0	1998.4	Nacimiento
3100.0	3448.0	Ojo Alamo
3220.0	3591.4	Kirtland
3301.0	3684.7	Fruitland
3694.0	4109.5	Pictured Cliffs
3759.0	4176.7	Lewis
4092.0	4513.9	Huerfanito Bentonite
4639.0	5061.0	Chacra
5193.0	5615.0	Upper Cliff House
5385.0	5807.0	Massive Cliff House
5511.0	5933.0	Menefee
5838.0	6260.0	Pt. Lookout
6356.0	6778.0	Mancos Shale
6994.0	7416.0	Gallup
7780.0	8202.0	Greenhorn
7842.0	8264.0	Graneros
7871.0	8293.0	Two Wells
7975.0	8397.0	Panguate
7991.0	8413.0	Upper Cubero
8042.0	8464.0	Lower Cubero
8094.0	8516.0	Oak Canyon



BURLINGTON RESOURCES OIL & GAS COMPANY LP
SAN JUAN 27-4 UNIT #56N
1791' FSL, 1360' FWL
SECTION 21, T-27-N, R-4-W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
NAD 83 LAT.: 36.556561°N LONG.: 107.260541°W
ELEV.: 6799 NAVD88
NO NEW ACCESS

DRIVING DIRECTIONS FROM BLOOMFIELD, N.M. AT INTERSECTION OF
HWY 550 AND HWY 64.

- TRAVEL EAST ON HWY 64 FOR 36.4 MI. (TO MILE POST 101.1)
TURN RIGHT (BY GOVERNADOR SCHOOL) AND TRAVEL SOUTH
ON C.R. 366.
- GO 1.1 MI. SOUTH. STAY RIGHT ON "AMERICAN GENERAL"
ROAD.
- GO 3.4 MI. SOUTH TO CROSS ROAD INTERSECTION. CONTINUE
STRAIGHT.
- GO 5.2 MI. SOUTH TO Y-INT IN ROAD. STAY LEFT CONTINUE
ON AMERICAN GENERAL.
- GO 2.4 MI. HEADING SOUTH AND EAST INTO CEREZA CANYON.
TURN RIGHT AND HEAD TO COTTONWOOD CROSSING.
- GO 1.1 MI. SOUTH CROSSING CEREZA WASH AT COTTONWOOD
CROSSING TURN LEFT (EAST).
- GO 1.8 MI. EASTERLY. TURN LEFT ON FOREST ROAD 357.
- GO 1.7 MI. EAST (SOUTH OF WATER HOLE 44 CROSSING). TURN
RIGHT ON FOREST ROAD 315.
- GO 0.6 MI. EAST. TURN HARD RIGHT ON FOREST ROAD 315P.
- GO 0.8 MI. TURN LEFT (EAST) INTO CIRUELAS CANYON.
- GO 0.5 MI. EAST AND SOUTH, CROSSING CIRUELAS CANYON
WASH. TURN LEFT (EAST).
- GO 0.3 MI. NORTHEAST TO EXISTING LOCATION FOR BROG SJ
27-4 UNIT #78. NEW WELL TWINNED HERE.