

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 21 2012

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

Farmington Field Office

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	SF-080674
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other		7. If Unit of CA/Agreement, Name and/or No. San Juan 27-4 Unit
2. Name of Operator Burlington Resources Oil & Gas Company LP		8. Well Name and No. San Juan 27-4 Unit 56N
3a. Address PO Box 4289, Farmington, NM 87499	3b. Phone No (include area code) (505) 326-9700	9. API Well No. 30-039-31105
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surface UNIT K (NESW), 1791' FSL & 1360' FWL, Sec. 21, T27N, R4W Bottomhole UNIT F (SESW), 1910' FNL & 1410' FWL, Sec. 21, T27N, R4W		10. Field and Pool or Exploratory Area Blanco MV/Basin Mancos/Basin DK
		11. Country or Parish, State Rio Arriba, New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Bottomhole
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Location Change
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof.
If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones.
Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once Testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Burlington Resources requests permission to move the Bottomhole location from the APD approved location of Unit F (SESW) 1810' FNL & 1410' FWL, Sec. 21, T27N, R4W to Unit F (SESW), 1910' FNL & 1410' FWL, a 100' change to facilitate drilling and reduce the chances of having problems associated with a long step out. In addition, we will deepen our Intermediate casing set depth point to 4,500' TVD in order to reduce the inclination and drag created when trying to get back to vertical. Attached is the new C102, Directional Plan, and Project Proposal.

RCVD JUN 27 '12
OIL CONS. DIV.
DIST. 3

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

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) DENISE JOURNEY	Title REGULATORY TECHNICIAN
Signature <i>Denise Journey</i>	Date 6/18/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <i>Troy L. Salvors</i>	Title <i>Petroleum Engineer</i>	Date <i>6/26/12</i>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office <i>FFO</i>	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction.

RCVD JUN 27 '12

OIL CONS. DIV.

DIST. 3 Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1090 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-039-31105	² Pool Code 71599/72319/97232	³ Pool Name Blanco Mesaverde/Basin Dakota/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 AND 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		1910	NORTH	1410	WEST	RIO ARRIBA

¹² Dedicated Acres W/2(320)	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 N 89°53'17" W 2847.1' (CALC) WEST 2629.1' (R) CALC. COR. 1/4 COR. 1910' 1410' 5248.9' (CALC) 5280.0' (R) N 0°54'01" W NORTH N 00°49'41"E 1551.3' SECTION 21 T-27-N, R-04-W W/2 DEDICATED ACREAGE USA SF-080674 1360' 1791' 0°20'28" 9°48' CALC. COR. WEST 2835.4' (R) N 89°43'16" W 2606.9' (CALC)	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. <i>Denise Journey</i> 6/28/12 Signature Date Denise Journey Printed Name Denise.Journey@conocophillips.com 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. Date of Survey: 04/28/2010 Signature and Seal of Professional Surveyor: <i>Henry P. Broadhurst</i> HENRY P. BROADHURST NEW MEXICO PROFESSIONAL SURVEYOR 06/21/2012 Certificate Number: NM 11393
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PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 56N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8224				AFE \$: 2,391,314.90	
Field Name: SAN JUAN 27-4 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #: 3003931105
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						
R20002	MESAVERDE(R20002)						
RCO085	MANCOS(RCO085)						
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: 36.560812		Longitude: -107.259835		X:	Y:	Section: 21	Range: 004W
Footage X: 1410 FWL		Footage Y: 1910 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. 230' 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	4500	2314	4631	☐	120		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1014 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/BTC casing. Cement w/ 475 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
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Comments: Location/Tops/Logging - MV/DKNM027N004W21NW2 Prefer C, F, E. Wells crowding. Topo could be an issue too.

Zones - MV/DKNM027N004W21NW2 10-3-11 Added Mancos. hdm

General/Work Description - 1/16/12 - Low Burro Canyon potential. Will not test Burro Canyon. - DKH

01-09-2012 Allocation type: Run spinner across all formations Mancos Sample required for Resource Assessment purposes if flow back operations allow to pull the sample at no cost - Dryonis Pertuso

12-15-11 No H2S Plan required. CC

12-04-11.....Mancos 2 stage frac - Slickwater - ARM

10-3-11 Pulled back to add Mancos. hdm

9-29-11 Label "Resource Strategic" added. HDM

9/27/11 This project will be Close Loop JEG

5/5/10- Directional Drill kr

LEWIS INCLUDED

9/10/09 Lewis Reserves Added in PEEP

ConocoPhillips SJB

San Juan Basin - New Mexico West Wells

San Juan 27 Wells

SJ 27-4 #56N

SJ 27-4 #56N

Plan: Plan #2-New BH loc

Standard Planning Report

15 June, 2012

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: San Juan 27 Wells
 Well: SJ 27-4 #56N
 Wellbore: SJ 27-4 #56N
 Design: Plan #2-New BH loc

Local Co-ordinate Reference: Well SJ 27-4 #56N
 TVD Reference: WELL @ 6814.0ft (Original Well Elev)
 MD Reference: WELL @ 6814.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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

Site: San Juan 27 Wells

Site Position: Northing: 2,017,039.09ft Latitude: 36° 32' 32.484 N
 From: Lat/Long Easting: 645,152.17ft Longitude: 107° 20' 21.156 W
 Position Uncertainty: 15.0ft Slot Radius: " Grid Convergence: 0.29 °

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

Wellbore: SJ 27-4 #56N

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	12/19/2011	9.60	63.39	50,667

Design: Plan #2-New BH loc

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	
1,151.5	24.95	1.17	1,125.5	178.1	3.6	3.00	3.00	0.00	1.17	
3,984.9	24.95	1.17	3,694.5	1,372.9	28.0	0.00	0.00	0.00	0.00	
4,816.4	0.00	0.00	4,500.0	1,551.0	31.6	3.00	-3.00	0.00	180.00	SJ 27-4 #56N ICP2
8,423.4	0.00	0.00	8,107.0	1,551.0	31.6	0.00	0.00	0.00	0.00	SJ 27-4 #56N PCP

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: San Juan 27 Wells
 Well: SJ 27-4 #56N
 Wellbore: SJ 27-4 #56N
 Design: Plan #2-New BH loc

Local Co-ordinate Reference: Well SJ 27-4 #56N
 TVD Reference: WELL @ 6814 0ft (Original Well Elev)
 MD Reference: WELL @ 6814 0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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
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	2.40	1.17	400.0	1.7	0.0	1.7	3.00	3.00	0.00
500.0	5.40	1.17	499.7	8.5	0.2	8.5	3.00	3.00	0.00
600.0	8.40	1.17	599.0	20.5	0.4	20.5	3.00	3.00	0.00
700.0	11.40	1.17	697.5	37.7	0.8	37.7	3.00	3.00	0.00
800.0	14.40	1.17	795.0	60.0	1.2	60.0	3.00	3.00	0.00
900.0	17.40	1.17	891.1	87.4	1.8	87.4	3.00	3.00	0.00
1,000.0	20.40	1.17	985.7	119.8	2.4	119.8	3.00	3.00	0.00
1,100.0	23.40	1.17	1,078.5	157.0	3.2	157.1	3.00	3.00	0.00
1,151.5	24.95	1.17	1,125.5	178.1	3.6	178.2	3.00	3.00	0.00
1,200.0	24.95	1.17	1,169.5	198.6	4.0	198.6	0.00	0.00	0.00
1,300.0	24.95	1.17	1,260.1	240.7	4.9	240.8	0.00	0.00	0.00
1,400.0	24.95	1.17	1,350.8	282.9	5.8	283.0	0.00	0.00	0.00
1,500.0	24.95	1.17	1,441.5	325.1	6.6	325.1	0.00	0.00	0.00
1,600.0	24.95	1.17	1,532.1	367.2	7.5	367.3	0.00	0.00	0.00
1,700.0	24.95	1.17	1,622.8	409.4	8.3	409.5	0.00	0.00	0.00
1,800.0	24.95	1.17	1,713.5	451.6	9.2	451.7	0.00	0.00	0.00
1,900.0	24.95	1.17	1,804.2	493.7	10.1	493.8	0.00	0.00	0.00
2,000.0	24.95	1.17	1,894.8	535.9	10.9	536.0	0.00	0.00	0.00
2,010.1	24.95	1.17	1,904.0	540.2	11.0	540.3	0.00	0.00	0.00
NACIEMENTO									
2,100.0	24.95	1.17	1,985.5	578.1	11.8	578.2	0.00	0.00	0.00
2,200.0	24.95	1.17	2,076.2	620.2	12.6	620.4	0.00	0.00	0.00
2,300.0	24.95	1.17	2,166.8	662.4	13.5	662.6	0.00	0.00	0.00
2,400.0	24.95	1.17	2,257.5	704.6	14.4	704.7	0.00	0.00	0.00
2,500.0	24.95	1.17	2,348.2	746.7	15.2	746.9	0.00	0.00	0.00
2,600.0	24.95	1.17	2,438.8	788.9	16.1	789.1	0.00	0.00	0.00
2,700.0	24.95	1.17	2,529.5	831.1	16.9	831.3	0.00	0.00	0.00
2,800.0	24.95	1.17	2,620.2	873.2	17.8	873.4	0.00	0.00	0.00
2,900.0	24.95	1.17	2,710.9	915.4	18.7	915.6	0.00	0.00	0.00
3,000.0	24.95	1.17	2,801.5	957.6	19.5	957.8	0.00	0.00	0.00
3,100.0	24.95	1.17	2,892.2	999.7	20.4	1,000.0	0.00	0.00	0.00
3,200.0	24.95	1.17	2,982.9	1,041.9	21.2	1,042.1	0.00	0.00	0.00
3,300.0	24.95	1.17	3,073.5	1,084.1	22.1	1,084.3	0.00	0.00	0.00
3,329.2	24.95	1.17	3,100.0	1,096.4	22.4	1,096.6	0.00	0.00	0.00
OJO ALAMO									
3,400.0	24.95	1.17	3,164.2	1,126.2	23.0	1,126.5	0.00	0.00	0.00
3,461.5	24.95	1.17	3,220.0	1,152.2	23.5	1,152.4	0.00	0.00	0.00
KIRTLAND									
3,500.0	24.95	1.17	3,254.9	1,168.4	23.8	1,168.7	0.00	0.00	0.00
3,550.9	24.95	1.17	3,301.0	1,189.9	24.3	1,190.1	0.00	0.00	0.00
FRUITLAND									
3,600.0	24.95	1.17	3,345.6	1,210.6	24.7	1,210.8	0.00	0.00	0.00
3,700.0	24.95	1.17	3,436.2	1,252.7	25.5	1,253.0	0.00	0.00	0.00
3,800.0	24.95	1.17	3,526.9	1,294.9	26.4	1,295.2	0.00	0.00	0.00
3,900.0	24.95	1.17	3,617.6	1,337.1	27.3	1,337.4	0.00	0.00	0.00
3,984.3	24.95	1.17	3,694.0	1,372.6	28.0	1,372.9	0.00	0.00	0.00
PICTURED CLIFFS									
3,984.9	24.95	1.17	3,694.5	1,372.9	28.0	1,373.1	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJBU
 Project: San Juan Basin - New Mexico West Wells
 Site: San Juan 27 Wells
 Well: SJ 27-4 #56N
 Wellbore: SJ 27-4 #56N
 Design: Plan #2-New BH loc

Local Co-ordinate Reference: Well SJ 27-4 #56N
 TVD Reference: WELL @ 6814 0ft (Original Well Elev)
 MD Reference: WELL @ 6814 0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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)
4,000.0	24.49	1.17	3,708.3	1,379.2	28.1	1,379.5	3.00	-3.00	0.00
4,055.4	22.83	1.17	3,759.0	1,401.4	28.6	1,401.7	3.00	-3.00	0.00
LEWIS									
4,100.0	21.49	1.17	3,800.3	1,418.2	28.9	1,418.5	3.00	-3.00	0.00
4,200.0	18.49	1.17	3,894.3	1,452.4	29.6	1,452.7	3.00	-3.00	0.00
4,300.0	15.49	1.17	3,989.9	1,481.6	30.2	1,481.9	3.00	-3.00	0.00
4,400.0	12.49	1.17	4,086.9	1,505.8	30.7	1,506.1	3.00	-3.00	0.00
4,405.2	12.34	1.17	4,092.0	1,506.9	30.7	1,507.2	3.00	-3.00	0.00
HUERFANITO BENTONITE									
4,500.0	9.49	1.17	4,185.1	1,524.9	31.1	1,525.2	3.00	-3.00	0.00
4,600.0	6.49	1.17	4,284.1	1,538.8	31.4	1,539.1	3.00	-3.00	0.00
4,700.0	3.49	1.17	4,383.7	1,547.5	31.6	1,547.8	3.00	-3.00	0.00
4,800.0	0.49	1.17	4,483.6	1,550.9	31.6	1,551.2	3.00	-3.00	0.00
4,816.4	0.00	0.00	4,500.0	1,551.0	31.6	1,551.3	3.00	-3.00	-7.14
SJ 27-4 #56N ICP2									
4,900.0	0.00	0.00	4,583.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
4,955.4	0.00	0.00	4,639.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
CHACRA									
5,000.0	0.00	0.00	4,683.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
5,100.0	0.00	0.00	4,783.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
5,200.0	0.00	0.00	4,883.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
5,300.0	0.00	0.00	4,983.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
5,400.0	0.00	0.00	5,083.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
5,500.0	0.00	0.00	5,183.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
5,509.4	0.00	0.00	5,193.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
UPPER CLIFF HOUSE									
5,600.0	0.00	0.00	5,283.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
5,700.0	0.00	0.00	5,383.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
5,701.4	0.00	0.00	5,385.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
MASSIVE CLIFF HOUSE									
5,800.0	0.00	0.00	5,483.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
5,827.4	0.00	0.00	5,511.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
MENEFEE									
5,900.0	0.00	0.00	5,583.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
6,000.0	0.00	0.00	5,683.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
6,100.0	0.00	0.00	5,783.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
6,154.4	0.00	0.00	5,838.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
POINT LOOKOUT									
6,200.0	0.00	0.00	5,883.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
6,300.0	0.00	0.00	5,983.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,083.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
6,500.0	0.00	0.00	6,183.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,283.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
6,672.4	0.00	0.00	6,356.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
MANCOS SHALE									
6,700.0	0.00	0.00	6,383.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
6,800.0	0.00	0.00	6,483.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,583.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
7,000.0	0.00	0.00	6,683.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
7,100.0	0.00	0.00	6,783.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
7,200.0	0.00	0.00	6,883.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
7,300.0	0.00	0.00	6,983.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00

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Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico West Wells
Site: San Juan 27 Wells
Well: SJ 27-4 #56N
Wellbore: SJ 27-4 #56N
Design: Plan #2-New BH loc

Local Co-ordinate Reference: Well SJ 27-4 #56N
TVD Reference: WELL @ 6814.0ft (Original Well Elev)
MD Reference: WELL @ 6814.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
7,310.4	0.00	0.00	6,994.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
GALLUP									
7,400.0	0.00	0.00	7,083.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,183.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
7,600.0	0.00	0.00	7,283.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,383.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,483.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,583.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,683.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
8,096.4	0.00	0.00	7,780.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
GREENHORN									
8,100.0	0.00	0.00	7,783.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
8,158.4	0.00	0.00	7,842.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
GRANEROS									
8,187.4	0.00	0.00	7,871.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
TWO WELLS									
8,200.0	0.00	0.00	7,883.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
8,291.4	0.00	0.00	7,975.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
PAGUATE									
8,300.0	0.00	0.00	7,983.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
8,307.4	0.00	0.00	7,991.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
UPPER CUBERO									
8,358.4	0.00	0.00	8,042.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
LOWER CUBERO									
8,400.0	0.00	0.00	8,083.6	1,551.0	31.6	1,551.3	0.00	0.00	0.00
8,410.4	0.00	0.00	8,094.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
OAK CANYON									
8,423.4	0.00	0.00	8,107.0	1,551.0	31.6	1,551.3	0.00	0.00	0.00
SJ 27-4 #56N PCP2									

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	- plan misses target center by 122.1ft at 4541.4ft MD (4226.0 TVD, 1531.2 N, 31.2 E)	0.00	0.00	4,209.0	1,652.1	31.6	2,023,988.07	668,428.74	36° 33' 39.924 N	107° 15' 35.405 W
- Point										
SJ 27-4 #56N ICP2	- plan hits target center	0.00	0.00	4,500.0	1,551.0	31.6	2,023,886.95	668,429.34	36° 33' 38.924 N	107° 15' 35.405 W
- Point										
SJ 27-4 #56N PCP2	- plan hits target center	0.00	0.00	8,107.0	1,551.0	31.6	2,023,886.96	668,429.34	36° 33' 38.924 N	107° 15' 35.405 W
- Point										

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJBW
Project: San Juan Basin - New Mexico West Wells
Site: San Juan 27 Wells
Well: SJ 27-4 #56N
Wellbore: SJ 27-4 #56N
Design: Plan #2-New BH loc

Local Co-ordinate Reference: Well SJ 27-4 #56N
TVD Reference: WELL @ 6814.0ft (Original Well Elev)
MD Reference: WELL @ 6814 0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,461.5	3,220.0	KIRTLAND		0.00	
4,405.2	4,092.0	HUERFANITO BENTONITE		0.00	
8,158.4	7,842.0	GRANEROS		0.00	
8,187.4	7,871.0	TWO WELLS		0.00	
6,672.4	6,356.0	MANCOS SHALE		0.00	
8,358.4	8,042.0	LOWER CUBERO		0.00	
7,310.4	6,994.0	GALLUP		0.00	
6,154.4	5,838.0	POINT LOOKOUT		0.00	
8,291.4	7,975.0	PAGUATE		0.00	
3,329.2	3,100.0	OJO ALAMO		0.00	
2,010.1	1,904.0	NACIEMENTO		0.00	
3,550.9	3,301.0	FRUITLAND		0.00	
3,984.3	3,694.0	PICTURED CLIFFS		0.00	
4,055.4	3,759.0	LEWIS		0.00	
8,410.4	8,094.0	OAK CANYON		0.00	
8,307.4	7,991.0	UPPER CUBERO		0.00	
4,955.4	4,639.0	CHACRA		0.00	
8,096.4	7,780.0	GREENHORN		0.00	
5,701.4	5,385.0	MASSIVE CLIFF HOUSE		0.00	
5,509.4	5,193.0	UPPER CLIFF HOUSE		0.00	
5,827.4	5,511.0	MENEFEE		0.00	

REFERENCE INFORMATION		Project: San Juan Basin - New Mexico West V									
WELL @ 6814.0ft (Original Well Elev)		Site: San Juan 27 Wells									
Ground Elevation 6799.0		Well: SJ 27-4 #56N									
Reference Lat: 36° 33' 23.587 N		Wellbore: SJ 27-4 #56N									
Reference Long: 107° 15' 35.793 W		Design: Plan #2-New BH loc									
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	1151.5	24.95	1.17	1125.5	178.1	3.6	3.00	1.17	178.2		
4	3984.9	24.95	1.17	3694.5	1372.9	28.0	0.00	0.00	1373.1		
5	4816.4	0.00	0.00	4500.0	1551.0	31.6	3.00	180.00	1551.3	SJ 27-4 #56N ICP2	
6	8423.4	0.00	0.00	8107.0	1551.0	31.6	0.00	0.00	1551.3	SJ 27-4 #56N PCP2	

