

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 11 2012

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office

1a. Type of Work DRILL	5. Lease Number of Land Management SF-080674 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	
DK-NMNM78408B & MV-NMNM78408A 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 SAN JUAN 27-4 UNIT 9. Well Number 143M RCVD FEB 26 '13 OIL CONS. DIV. DIST. 3
4. Location of Well Surface: Unit K(NE/SW), 1930' FSL & 2540' FWL BHL : Unit J(NW/SE), 2325' FSL & 1405' FEL Surface: Latitude: 36.556803° N (NAD83) Longitude: 107.238789° W BHL : Latitude: 36.557907° N (NAD83) Longitude: 107.234475° W	10. Field, Pool, Wildcat BASIN DK / BLANCO MV 11. Sec., Twn, Rge, Mer. (NMPM) SUR: Sec. 22, T27N, R4W BHL: Sec. 22, T27N, R4W API # 30-039- 31162
14. Distance in Miles from Nearest Town 55.0 miles from Bloomfield, NM	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 1405'	13. State NM
16. Acres in Lease 2,560.000	17. Acres Assigned to Well 320.00 (E 1/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 101.8' from San Juan 27-4 Unit 149B (MV)	
19. Proposed Depth 8434' and approved pursuant to 43 CFR 3165.3	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 7162' GL	22. Approx. Date Work will Start 12/10/12
23. Proposed Casing and Cementing Program See Operations Plan attached	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
24. Authorized by: Marie E. Jaramillo (Staff Regulatory Tech)	Date

Hold C104
for Directional Survey
and "As Drilled" plat

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

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 2/25/13

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

NMOCD
FEB 28 2013 ca

for Directional Survey
and "As Drilled" plat

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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
DEC 11 2012

☐ AMENDED REPORT
Farmington Field Office
Bureau of Land Management

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 31162	² Pool Code 71599 / 72319	³ Pool Name Blanco MESAVERDE / DAKOTA Basin
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁶ Well Number 143M
		⁹ Elevation 7162

¹⁰ SURFACE LOCATION

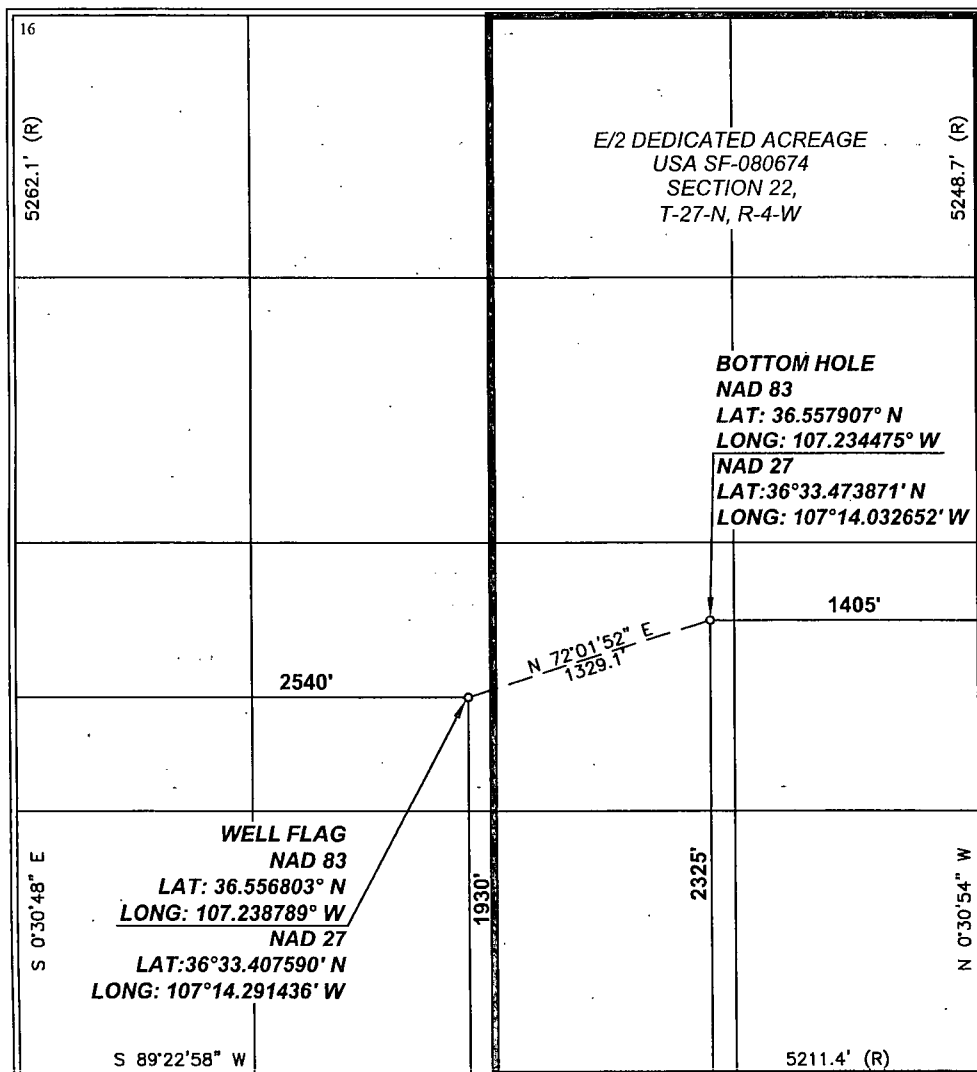
UL or lot no. K	Section 22	Township 27-N	Range 4-W	Lot Idn	Feet from the 1930	North/South line SOUTH	Feet from the 2540	East/West line WEST	County RIO ARRIBA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. J	Section 22	Township 27-N	Range 4-W	Lot Idn	Feet from the 2325	North/South line SOUTH	Feet from the 1405	East/West line EAST	County RIO ARRIBA
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¹² Dedicated Acres 320.00 (E1/2)	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



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>James Gardenhire</i> Signature	
James Gardenhire Printed Name	
Regulatory Technician Title and E-mail Address	
12/22/08 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: 10/31/08 Signature and Seal of Professional Surveyor:	
Certificate Number: NM 11393	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 143M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7067				AFE \$: 1,315,737.94	
Field Name: SAN JUAN 27-4 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F (Charles)		Phone: +1-505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD.27 Directional							
Latitude: 36.556793	Longitude: -107.238190	X:	Y:	Section: 22	Range: 004W		
Footage X: 2540 FWL	Footage Y: 1930 FSL	Elevation: 7162	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD.27 Directional							
Latitude: 36.557897	Longitude: -107.233877	X:	Y:	Section: 22	Range: 004W		
Footage X: 1405 FEL	Footage Y: 2325 FSL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7177 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6977		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	2279	4898		☐			
OJO ALAMO	3449	3728		☐			
KIRTLAND	3586	3591		☐			
FRUITLAND	3690	3487		☐			Possible Gas
PICTURED CLIFFS	4029	3148		☐			
LEWIS	4114	3063		☐			
Intermediate Casing	4262	2915		☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 960 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4480	2697		☐			
CHACRA	4997	2180		☐			
MASSIVE CLIFF HOUSE	5745	1432		☐	868		Gas
MENEFEE	5876	1301		☐			
POINT LOOKOUT	6177	1000		☐			
MANCOS	6731	446		☐			
UPPER GALLUP	7355	-178		☐			
GREENHORN	8134	-957		☐			
GRANEROS	8203	-1026		☐			
TWO WELLS	8238	-1061		☐	3109		Gas
UPPER CUBERO	8347	-1170		☐			
LOWER CUBERO	8391	-1214		☐			
OAK CANYON	8414	-1237		☐			Est bottom perf ~20' from TD.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 143M

DEVELOPMENT

Total Depth	8434	-1257	☐	200	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/BTC casing. Cement w/ 547 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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ENCINAL	8458	-1281	☐		
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Reference Wells:		
Reference Type	Well Name	Comments
Production	27-4 143A	

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Mud log from ~100' above the Upper Gallup to TD. Mud loggers will call final TD.	

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #143M
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7177.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7177.0usft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #143M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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:	2,018,443.76 usft	Latitude:	36° 32' 32.152 N
From:	Lat/Long	Easting:	180,037.82 usft	Longitude:	108° 55' 21.086 W
Position Uncertainty:	15.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	-0.65 °

Well	SJ 27-4 #143M					
Well Position	+N/-S	0.0 usft	Northing:	2,022,462.49 usft	Latitude:	36° 33' 24.455 N
	+E/-W	0.0 usft	Easting:	674,795.10 usft	Longitude:	107° 14' 17.486 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	7,162.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	11/14/2012	9.48	63.35	50,503

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth-From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	72.39

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,678.1	25.56	72.39	1,636.1	84.9	267.3	2.00	2.00	0.00	72.39	
3,675.4	25.56	72.39	3,437.9	345.6	1,088.7	0.00	0.00	0.00	0.00	
4,527.5	0.00	0.00	4,262.0	402.2	1,266.8	3.00	-3.00	0.00	180.00	SJ 27-4 #143M ICP
8,699.5	0.00	0.00	8,434.0	402.2	1,266.8	0.00	0.00	0.00	0.00	SJ 27-4 #143M PCP

ConocoPhillips

Planning Report

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Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7177.0usft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #143M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	2.00	72.39	500.0	0.5	1.7	1.7	2.00	2.00	0.00
600.0	4.00	72.39	599.8	2.1	6.7	7.0	2.00	2.00	0.00
700.0	6.00	72.39	699.5	4.7	15.0	15.7	2.00	2.00	0.00
800.0	8.00	72.39	798.7	8.4	26.6	27.9	2.00	2.00	0.00
900.0	10.00	72.39	897.5	13.2	41.5	43.5	2.00	2.00	0.00
1,000.0	12.00	72.39	995.6	18.9	59.7	62.6	2.00	2.00	0.00
1,100.0	14.00	72.39	1,093.1	25.8	81.1	85.1	2.00	2.00	0.00
1,200.0	16.00	72.39	1,189.6	33.6	105.8	111.0	2.00	2.00	0.00
1,300.0	18.00	72.39	1,285.3	42.4	133.6	140.2	2.00	2.00	0.00
1,400.0	20.00	72.39	1,379.8	52.3	164.7	172.8	2.00	2.00	0.00
1,500.0	22.00	72.39	1,473.2	63.1	198.8	208.6	2.00	2.00	0.00
1,600.0	24.00	72.39	1,565.2	74.9	236.1	247.7	2.00	2.00	0.00
1,678.1	25.56	72.39	1,636.1	84.9	267.3	280.4	2.00	2.00	0.00
1,700.0	25.56	72.39	1,655.9	87.7	276.3	289.9	0.00	0.00	0.00
1,800.0	25.56	72.39	1,746.1	100.8	317.4	333.0	0.00	0.00	0.00
1,900.0	25.56	72.39	1,836.3	113.8	358.5	376.2	0.00	0.00	0.00
2,000.0	25.56	72.39	1,926.5	126.9	399.6	419.3	0.00	0.00	0.00
2,100.0	25.56	72.39	2,016.7	139.9	440.8	462.5	0.00	0.00	0.00
2,200.0	25.56	72.39	2,106.9	153.0	481.9	505.6	0.00	0.00	0.00
2,300.0	25.56	72.39	2,197.1	166.1	523.0	548.8	0.00	0.00	0.00
2,390.7	25.56	72.39	2,279.0	177.9	560.3	587.9	0.00	0.00	0.00
NACIMIENTO									
2,400.0	25.56	72.39	2,287.4	179.1	564.1	591.9	0.00	0.00	0.00
2,500.0	25.56	72.39	2,377.6	192.2	605.3	635.0	0.00	0.00	0.00
2,600.0	25.56	72.39	2,467.8	205.2	646.4	678.2	0.00	0.00	0.00
2,700.0	25.56	72.39	2,558.0	218.3	687.5	721.3	0.00	0.00	0.00
2,800.0	25.56	72.39	2,648.2	231.3	728.7	764.5	0.00	0.00	0.00
2,900.0	25.56	72.39	2,738.4	244.4	769.8	807.6	0.00	0.00	0.00
3,000.0	25.56	72.39	2,828.6	257.4	810.9	850.8	0.00	0.00	0.00
3,100.0	25.56	72.39	2,918.8	270.5	852.0	893.9	0.00	0.00	0.00
3,200.0	25.56	72.39	3,009.1	283.6	893.2	937.1	0.00	0.00	0.00
3,300.0	25.56	72.39	3,099.3	296.6	934.3	980.2	0.00	0.00	0.00
3,400.0	25.56	72.39	3,189.5	309.7	975.4	1,023.4	0.00	0.00	0.00
3,500.0	25.56	72.39	3,279.7	322.7	1,016.5	1,066.5	0.00	0.00	0.00
3,600.0	25.56	72.39	3,369.9	335.8	1,057.7	1,109.7	0.00	0.00	0.00
3,675.4	25.56	72.39	3,437.9	345.6	1,088.7	1,142.2	0.00	0.00	0.00
3,687.7	25.19	72.39	3,449.0	347.2	1,093.7	1,147.5	3.00	-3.00	0.00
OJO ALAMO									
3,700.0	24.82	72.39	3,460.2	348.8	1,098.6	1,152.7	3.00	-3.00	0.00
3,800.0	21.82	72.39	3,552.0	360.8	1,136.4	1,192.3	3.00	-3.00	0.00
3,836.5	20.73	72.39	3,586.0	364.8	1,149.0	1,205.5	3.00	-3.00	0.00
KIRTLAND									
3,900.0	18.82	72.39	3,645.8	371.3	1,169.5	1,227.0	3.00	-3.00	0.00
3,946.5	17.43	72.39	3,690.0	375.7	1,183.3	1,241.5	3.00	-3.00	0.00
FRUITLAND									
4,000.0	15.82	72.39	3,741.2	380.3	1,197.9	1,256.8	3.00	-3.00	0.00
4,100.0	12.82	72.39	3,838.1	387.8	1,221.4	1,281.5	3.00	-3.00	0.00
4,200.0	9.82	72.39	3,936.1	393.7	1,240.1	1,301.2	3.00	-3.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #143M
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7177.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7177.0usft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #143M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,293.9	7.01	72.39	4,029.0	397.9	1,253.2	1,314.9	3.00	-3.00	0.00
PICTURED CLIFFS									
4,300.0	6.82	72.39	4,035.1	398.1	1,253.9	1,315.6	3.00	-3.00	0.00
4,379.3	4.44	72.39	4,114.0	400.5	1,261.4	1,323.4	3.00	-3.00	0.00
LEWIS									
4,400.0	3.82	72.39	4,134.6	400.9	1,262.8	1,324.9	3.00	-3.00	0.00
4,500.0	0.82	72.39	4,234.5	402.1	1,266.7	1,329.0	3.00	-3.00	0.00
4,527.5	0.00	0.00	4,262.0	402.2	1,266.8	1,329.2	3.00	-3.00	0.00
4,600.0	0.00	0.00	4,334.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
4,700.0	0.00	0.00	4,434.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
4,745.5	0.00	0.00	4,480.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00
HUERFANITO BENTONITE									
4,800.0	0.00	0.00	4,534.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
4,900.0	0.00	0.00	4,634.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
5,000.0	0.00	0.00	4,734.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
5,100.0	0.00	0.00	4,834.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
5,200.0	0.00	0.00	4,934.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
5,262.5	0.00	0.00	4,997.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00
CHACRA									
5,300.0	0.00	0.00	5,034.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
5,400.0	0.00	0.00	5,134.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
5,500.0	0.00	0.00	5,234.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
5,600.0	0.00	0.00	5,334.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
5,700.0	0.00	0.00	5,434.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
5,800.0	0.00	0.00	5,534.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
5,900.0	0.00	0.00	5,634.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
6,000.0	0.00	0.00	5,734.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
6,012.5	0.00	0.00	5,747.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00
MASSIVE CLIFF HOUSE									
6,100.0	0.00	0.00	5,834.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
6,141.5	0.00	0.00	5,876.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00
MENELEE									
6,200.0	0.00	0.00	5,934.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
6,300.0	0.00	0.00	6,034.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
6,400.0	0.00	0.00	6,134.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
6,442.5	0.00	0.00	6,177.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00
POINT LOOKOUT									
6,500.0	0.00	0.00	6,234.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,334.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,434.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,534.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
6,900.0	0.00	0.00	6,634.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
6,996.5	0.00	0.00	6,731.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00
MANCOS									
7,000.0	0.00	0.00	6,734.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
7,100.0	0.00	0.00	6,834.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
7,200.0	0.00	0.00	6,934.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,034.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,134.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,234.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,334.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
7,620.5	0.00	0.00	7,355.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00

ConocoPhillips

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 #143M Wellbore: Wellbore #1 Design: Design #1	Local Co-ordinate Reference: Well SJ 27-4 #143M TVD Reference: WELL @ 7177.0usft (Original Well Elev) MD Reference: WELL @ 7177.0usft (Original Well Elev) North Reference: True Survey Calculation Method: Minimum Curvature	
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
UPPER GALLUP									
7,700.0	0.00	0.00	7,434.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,534.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,634.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,734.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
8,100.0	0.00	0.00	7,834.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
8,200.0	0.00	0.00	7,934.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,034.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
8,399.5	0.00	0.00	8,134.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00
GREENHORN									
8,400.0	0.00	0.00	8,134.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
8,468.5	0.00	0.00	8,203.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00
GRANEROS									
8,500.0	0.00	0.00	8,234.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
8,503.5	0.00	0.00	8,238.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00
TWO WELLS									
8,600.0	0.00	0.00	8,334.5	402.2	1,266.8	1,329.2	0.00	0.00	0.00
8,612.5	0.00	0.00	8,347.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00
UPPER CUBERO									
8,656.5	0.00	0.00	8,391.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00
LOWER CUBERO									
8,679.5	0.00	0.00	8,414.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00
OAK CANYON									
8,699.5	0.00	0.00	8,434.0	402.2	1,266.8	1,329.2	0.00	0.00	0.00

Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SJ 27-4 #143M PCP - plan hits target center - Point	0.00	0.00	8,434.0	402.2	1,266.9	2,022,872.48	676,059.37	36° 33' 28.432 N	107° 14' 1.959 W
SJ 27-4 #143M ICP - plan hits target center - Point	0.00	0.00	4,262.0	402.2	1,266.8	2,022,872.50	676,059.36	36° 33' 28.432 N	107° 14' 1.959 W

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #143M
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7177.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7177.0usft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #143M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
8,468.5	8,203.0	GRANEROS		0.00	
8,399.5	8,134.0	GREENHORN		0.00	
7,620.5	7,355.0	UPPER GALLUP		0.00	
6,996.5	6,731.0	MANCOS		0.00	
4,293.9	4,029.0	PICTURED CLIFFS		0.00	
4,379.3	4,114.0	LEWIS		0.00	
3,946.5	3,690.0	FRUITLAND		0.00	
6,012.5	5,747.0	MASSIVE CLIFF HOUSE		0.00	
5,262.5	4,997.0	CHACRA		0.00	
8,503.5	8,238.0	TWO WELLS		0.00	
6,141.5	5,876.0	MENEFEE		0.00	
6,442.5	6,177.0	POINT LOOKOUT		0.00	
3,687.7	3,449.0	OJO ALAMO		0.00	
8,656.5	8,391.0	LOWER CUBERO		0.00	
4,745.5	4,480.0	HUERFANITO BENTONITE		0.00	
8,679.5	8,414.0	OAK CANYON		0.00	
2,390.7	2,279.0	NACIMIENTO		0.00	
3,836.5	3,586.0	KIRTLAND		0.00	
8,612.5	8,347.0	UPPER CUBERO		0.00	

REFERENCE INFORMATION

ELL @ 7177.0usft (Original Well Elev)
Ground Elevation 7162.0

Reference Lat: 36° 33' 24.455 N
Reference Long: 107° 14' 17.486 W

Project: San Juan Basin - New Mexico West V

Site: San Juan 27 Wells

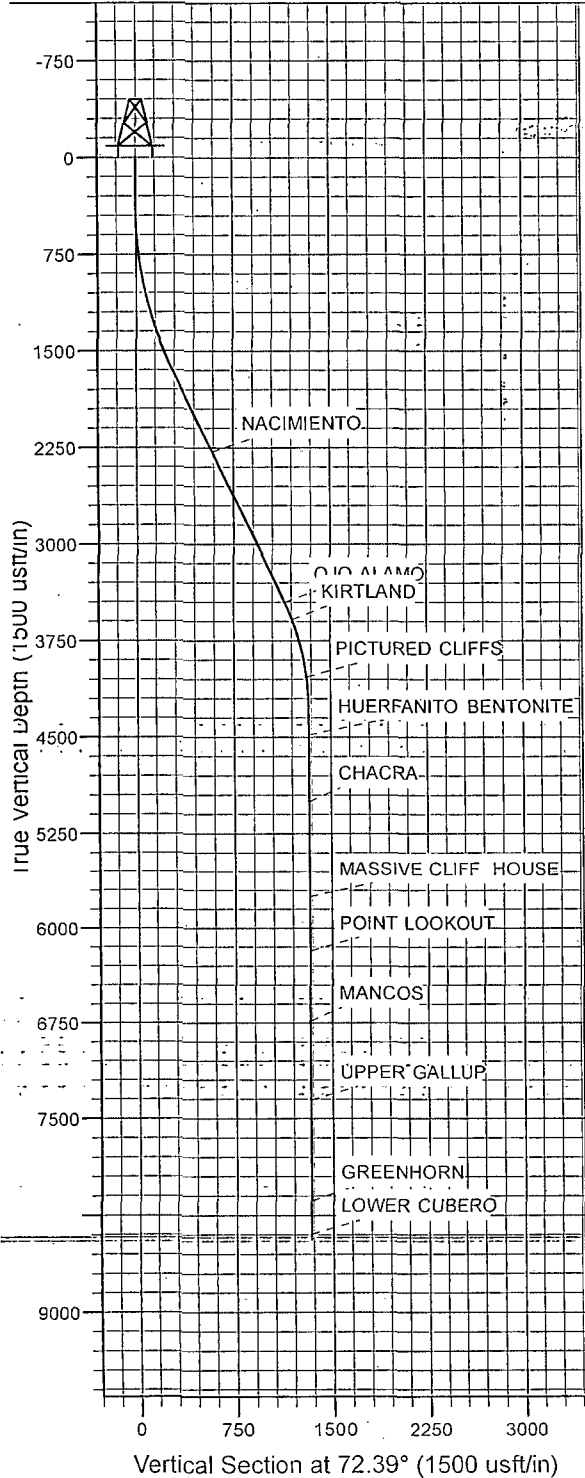
Well: SJ 27-4 #143M

Wellbore: Wellbore #1

Design: Design #1

SECTION DETAILS

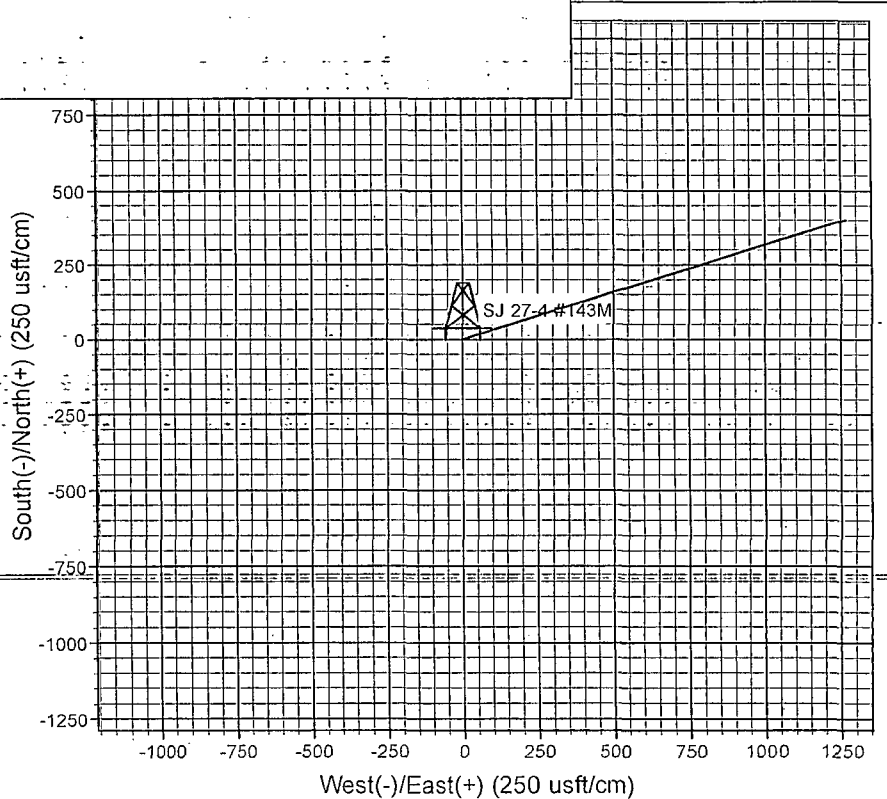
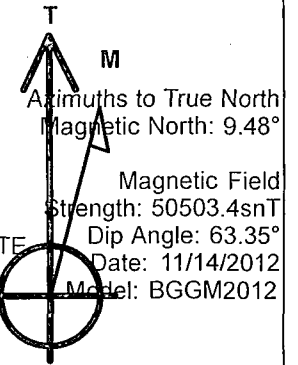
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1678.1	25.56	72.39	1636.1	84.9	267.3	2.00	72.39	280.4	
4	3675.4	25.56	72.39	3437.9	345.6	1088.7	0.00	0.00	1142.2	
5	4527.5	0.00	0.00	4262.0	402.2	1266.8	3.00	180.00	1329.2	SJ 27-4 #143M ICP
6	8699.5	0.00	0.00	8434.0	402.2	1266.8	0.00	0.00	1329.2	SJ 27-4 #143M PCP



FORMATION TOP DETAILS

TVDPath	MDPath
2279.0	2390.7
3449.0	3687.7
3586.0	3836.5
3690.0	3946.5
4029.0	4293.9
4114.0	4379.3
4480.0	4745.5
4997.0	5262.5
5747.0	6012.5
5876.0	6141.5
6177.0	6442.5
6731.0	6996.5
7355.0	7620.5
8134.0	8399.5
8203.0	8468.5
8238.0	8503.5
8347.0	8612.5
8391.0	8656.5
8414.0	8679.5

Formation
NACIMIENTO
OJO ALAMO
KIRTLAND
FRUITLAND
ICTURED CLIFFS
LEWIS
HUERFANITO BENTONITE
CHACRA
MASSIVE CLIFF HOUSE
MENELEE
POINT LOOKOUT
MANCOS
UPPER GALLUP
GREENHORN
GRANEROS
TWO WELLS
UPPER CUBERO
LOWER CUBERO
OAK CANYON



BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT #143M

1930' FSL, 2540' FWL

SECTION 22, T-27-N, R-4-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.556803°N LONG.: 107.238789°W

ELEV.: 7162 NAVD88

TWIN WITH SJ 27-4 #149B. NO NEW ACCESS

FROM BLOOMFIELD N.M. INTERSECTION OF HWY. 550 AND HWY. 64.

GO 36.4 MILES EAST (MILE POST 101.1).

- TURN RIGHT AT GOBERNADOR SCHOOL AND TRAVEL SOUTH ON GENERAL AMERICAN ROAD.
- GO 1.1 MILES SOUTH. TURN RIGHT, STAYING ON GENERAL AMERICAN ROAD.
- GO 6.0 MI. SOUTH. ENTER CARRIZO RANCH AT SANTOS PEAK. (GENERAL AMERICAN CATTLE GUARD #7).
- GO 2.4 MILES SOUTH TO -Y- IN ROAD. STRAY LEFT.
- GO 1.0 MILES SOUTH TO CATTLE GUARD, LEAVING CARRIZO RANCH AT SANTOS PEAK.
- GO 4.2 MILES EAST INTO CEREZA CANYON. TURN RIGHT AT 44 WATER HOLE AND CERZA WASH CROSSING.
- GO 4.2 MILES SOUTH EAST & UP HILL ON FOREST ROAD 315 TO BROG SJ 27-4 UNIT 149B WELL LOCATION. NEW WELL STAKED ON EAST SIDE OF THIS LOCATION.