

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FEDERAL AND INDIAN LANDS

BLM'S APPROVAL OR ACCEPTANCE OF THIS
ACTION DOES NOT RELIEVE THE LESSEE AND
OPERATOR FROM OBTAINING ANY OTHER

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED JAN 03 2012 Farmington Field Office Bureau of Land Management	5. Lease Number SF-080675 Unit Reporting Number NMMN T8408A(MV) NMMN T8408B(DK)
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 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 102P RCVD FEB 9'12 OIL CONS. DIV.
4. Location of Well Surface: Unit D(NWNW), 927' FNL & 985' FWL BHL : Unit F(SENW), 1890' FNL & 1930' FWL Surface: Latitude: 36.534682° N (NAD83) Longitude: 107.261640° W BHL : Latitude: 36.532002° N (NAD83) Longitude: 107.258522° W		10. Field, Pool, Wildcat DIST. 3 Blanco MV/Basin DK/Basin MC 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 33, T27N, R4W API # 30-039-31103
14. Distance in Miles from Nearest Town 58 miles from Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 927'		
16. Acres in Lease 2400.000	17. Acres Assigned to Well MV 320.0 W/2 DK/MC 320.0 N/2	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 101' from SJ 27-4 Unit 102M (MV/DK)		
19. Proposed Depth 8396'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7187' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Arleen Kellywood</u> Arleen Kellywood (Staff Regulatory Tech)	<u>1/3/12</u> Date	

Hold C104
for Directional Survey
and "As Drilled" plat

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 2/7/12

Archaeological Report attached
Threatened and Endangered Species Report attached
NOTE. This format is issued in lieu of U.S. BLM Form 3160-3
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any statement or presentation 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 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD
FEB 20 2012 ca

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

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- 31103	² Pool Code 71599/72319/97232	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE / MANCOS	⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	⁶ Well Number 102P
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			⁹ Elevation 7187	

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	33	27-N	4-W		927	NORTH	985	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	33	27-N	4-W		1890	NORTH	1930	WEST	RIO ARRIBA

¹² Dedicated Acres N/2 -320.0 - DK W/2 -320.0 - MV	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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N/2 - Mancos

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

WEST N 89°33'15" W 927' (R) 985' 5280.0' (R) 5249.8' (M) S 43°31'41" E 1338.3' 1930' 1890'	WELL FLAG NAD 83 LAT: 36.534682° N LONG: 107.261640° W NAD 27 LAT: 36°32.080340' N LONG: 107°15.662484' W	5260.2' (R) 5195.7' (M) CALC COR.
SECTION 33, T-27-N, R-4-W W/2 DEDICATED ACREAGE USA SF-080675	BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION.	
NORTH N 01°23'33" E BLM 1972	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. BLM 1972	

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

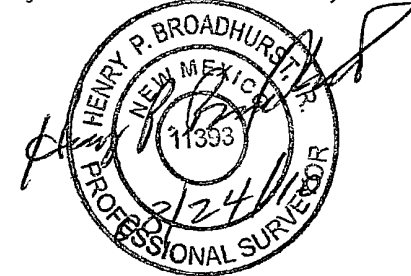
11/28/11
Date

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: 8/11/10

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 102P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0062				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA	API #:	
Geologist:	Phone:	Geophysicist:		Phone:			
Geoscientist:	Phone:	Prod. Engineer:		Phone:			
Res. Engineer:	Phone:	Proj. Field Lead:		Phone:			
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
RCO085	MANCOS(RCO085)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.534672	Longitude: -107.261041	X:	Y:	Section: 33	Range: 004W		
Footage X: 985 FWL	Footage Y: 927 FNL	Elevation: 7187	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.531992	Longitude: -107.257923	X:	Y:	Section: 33	Range: 004W		
Footage X: 1930 FWL	Footage Y: 1890 FNL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7202 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SAN JOSE	15	7187		☐			Ground water - SJ 27-4 Unit 37 (section 33) md: 110' ss:7021'
Surface Casing	200	7002	200	☐		36	12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 116 cuft. Circulate cement to surface.
NACIMIENTO	2269	4933		☐			
OJO ALAMO	3475	3727		☐			
KIRTLAND	3550	3652		☐			
FRUITLAND	3669	3533		☐		104	Possible Gas
PICTURED CLIFFS	4030	3172		☐	924		
LEWIS	4094	3108		☐			
Intermediate Casing	4250	2952	4513	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1012 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4481	2721		☐		119	
CHACRA	4971	2231		☐			
UPPER CLIFF HOUSE	5697	1505		☐			Gas
MASSIVE CLIFF HOUSE	5700	1502		☐	758		Gas
MENEFEE	5832	1370		☐		146	
POINT LOOKOUT	6202	1000		☐			
MANCOS	6675	527		☐			
UPPER GALLUP	7313	-111		☐			
GREENHORN	8123	-921		☐		190	Gas
GRANEROS	8182	-980		☐			
TWO WELLS	8204	-1002		☐	2513		Gas - At the top strong smell of condensate in SJ 27-4 53M (section 30) then started to get wet 27' in.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 102P

DEVELOPMENT

PAGUATE	8333	-1131	☐		
UPPER CUBERO	8356	-1154	☐	194	Gas - Bottom perf ~-1174' (~20' above TD) base on offset well.
LOWER CUBERO	8384	-1182	☐		Gas
Total Depth	8396	-1194	8659	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55, LTC casing. Cement w/ 532 cuft. Circulate cement a minimum of 100' inside the previous casing string.
OAK CANYON	8404	-1202	☐		Gas - Got wet in SJ 27-4 56 (section 21) Perfs & then plugged all cbrl. SJ 27-4 47P (section 20) got wet drilling into okcn, P&A DK.
ENCINAL	8451	-1249	☐	196	
BURRO CANYON	8508	-1306	☐		
MORRISON	8514	-1312	☐		

Reference Wells:		
Reference Type	Well Name	Comments
Production	SAN JUAN 27-4 UNIT 57	

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

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Coordinate Reference:	Well SJ 27-4 #102P
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7202.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7202.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #102P	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #102P		
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 #102P				
Well Position	+N/-S	0.0 ft	Northing:	2,014,368.95 ft	Latitude: 36° 32' 4.820 N
	+E/-W	0.0 ft	Easting:	668,131.59 ft	Longitude: 107° 15' 39.749 W
Position Uncertainty		3.5 ft	Wellhead Elevation:	ft	Ground Level: 7,187.0 ft

Wellbore:	SJ 27-4 #102P
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	12/19/2011	9.60	63.37	50,599

Design:	Plan #1
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Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	136.81

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	
1,569.2	24.98	136.81	1,530.0	-195.5	183.5	2.00	2.00	0.00	136.81	
3,680.1	24.98	136.81	3,443.3	-845.5	793.6	0.00	0.00	0.00	0.00	
4,512.9	0.00	0.00	4,250.0	-975.8	915.9	3.00	-3.00	0.00	180.00	SJ 27-4 #102P ICP
8,658.9	0.00	0.00	8,396.0	-975.8	915.9	0.00	0.00	0.00	0.00	SJ 27-4 #102P PCF

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #102P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7202.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7202.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #102P	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #102P		
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	
15.0	0.00	0.00	15.0	0.0	0.0	0.0	0.00	0.00	0.00	
San Jose										
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	136.81	400.0	-0.8	0.8	1.1	2.00	2.00	0.00	
500.0	3.60	136.81	499.9	-4.1	3.9	5.7	2.00	2.00	0.00	
600.0	5.60	136.81	599.6	-10.0	9.4	13.7	2.00	2.00	0.00	
700.0	7.60	136.81	698.9	-18.3	17.2	25.2	2.00	2.00	0.00	
800.0	9.60	136.81	797.8	-29.3	27.5	40.1	2.00	2.00	0.00	
900.0	11.60	136.81	896.0	-42.7	40.0	58.5	2.00	2.00	0.00	
1,000.0	13.60	136.81	993.6	-58.6	55.0	80.3	2.00	2.00	0.00	
1,100.0	15.60	136.81	1,090.4	-76.9	72.2	105.5	2.00	2.00	0.00	
1,200.0	17.60	136.81	1,186.2	-97.8	91.8	134.1	2.00	2.00	0.00	
1,300.0	19.60	136.81	1,281.0	-121.0	113.6	166.0	2.00	2.00	0.00	
1,400.0	21.60	136.81	1,374.6	-146.7	137.7	201.2	2.00	2.00	0.00	
1,500.0	23.60	136.81	1,466.9	-174.7	164.0	239.6	2.00	2.00	0.00	
1,569.2	24.98	136.81	1,530.0	-195.5	183.5	268.1	2.00	2.00	0.00	
1,600.0	24.98	136.81	1,557.9	-204.9	192.4	281.1	0.00	0.00	0.00	
1,700.0	24.98	136.81	1,648.5	-235.7	221.3	323.3	0.00	0.00	0.00	
1,800.0	24.98	136.81	1,739.2	-266.5	250.2	365.6	0.00	0.00	0.00	
1,900.0	24.98	136.81	1,829.8	-297.3	279.1	407.8	0.00	0.00	0.00	
2,000.0	24.98	136.81	1,920.5	-328.1	308.0	450.0	0.00	0.00	0.00	
2,100.0	24.98	136.81	2,011.1	-358.9	336.9	492.3	0.00	0.00	0.00	
2,200.0	24.98	136.81	2,101.8	-389.7	365.8	534.5	0.00	0.00	0.00	
2,300.0	24.98	136.81	2,192.4	-420.5	394.7	576.7	0.00	0.00	0.00	
2,384.5	24.98	136.81	2,269.0	-446.5	419.1	612.4	0.00	0.00	0.00	
Nacimiento										
2,400.0	24.98	136.81	2,283.0	-451.3	423.6	619.0	0.00	0.00	0.00	
2,500.0	24.98	136.81	2,373.7	-482.1	452.5	661.2	0.00	0.00	0.00	
2,600.0	24.98	136.81	2,464.3	-512.9	481.4	703.4	0.00	0.00	0.00	
2,700.0	24.98	136.81	2,555.0	-543.7	510.3	745.7	0.00	0.00	0.00	
2,800.0	24.98	136.81	2,645.6	-574.5	539.2	787.9	0.00	0.00	0.00	
2,900.0	24.98	136.81	2,736.3	-605.3	568.1	830.2	0.00	0.00	0.00	
3,000.0	24.98	136.81	2,826.9	-636.1	597.0	872.4	0.00	0.00	0.00	
3,100.0	24.98	136.81	2,917.5	-666.9	626.0	914.6	0.00	0.00	0.00	
3,200.0	24.98	136.81	3,008.2	-697.7	654.9	956.9	0.00	0.00	0.00	
3,300.0	24.98	136.81	3,098.8	-728.5	683.8	999.1	0.00	0.00	0.00	
3,400.0	24.98	136.81	3,189.5	-759.3	712.7	1,041.3	0.00	0.00	0.00	
3,500.0	24.98	136.81	3,280.1	-790.1	741.6	1,083.6	0.00	0.00	0.00	
3,600.0	24.98	136.81	3,370.8	-820.8	770.5	1,125.8	0.00	0.00	0.00	
3,680.1	24.98	136.81	3,443.3	-845.5	793.6	1,159.6	0.00	0.00	0.00	
3,700.0	24.39	136.81	3,461.4	-851.6	799.3	1,167.9	3.00	-3.00	0.00	
3,714.9	23.94	136.81	3,475.0	-856.0	803.5	1,174.0	3.00	-3.00	0.00	
Ojo Alamo										
3,796.2	21.50	136.81	3,550.0	-878.9	825.0	1,205.4	3.00	-3.00	0.00	
Kirtland										
3,800.0	21.39	136.81	3,553.6	-879.9	825.9	1,206.8	3.00	-3.00	0.00	
3,900.0	18.39	136.81	3,647.6	-904.7	849.2	1,240.8	3.00	-3.00	0.00	
3,922.5	17.71	136.81	3,669.0	-909.8	854.0	1,247.8	3.00	-3.00	0.00	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #102P
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7202.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7202.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #102P	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #102P		
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)
Fruitland									
4,000.0	15.39	136.81	3,743.3	-925.9	869.1	1,269.9	3.00	-3.00	0.00
4,100.0	12.39	136.81	3,840.3	-943.4	885.5	1,293.9	3.00	-3.00	0.00
4,200.0	9.39	136.81	3,938.5	-957.2	898.4	1,312.8	3.00	-3.00	0.00
4,292.4	6.61	136.81	4,030.0	-966.5	907.2	1,325.6	3.00	-3.00	0.00
Pictured Cliffs									
4,300.0	6.39	136.81	4,037.6	-967.2	907.8	1,326.5	3.00	-3.00	0.00
4,356.7	4.69	136.81	4,094.0	-971.2	911.6	1,332.0	3.00	-3.00	0.00
Lewis									
4,400.0	3.39	136.81	4,137.2	-973.4	913.7	1,335.0	3.00	-3.00	0.00
4,500.0	0.39	136.81	4,237.1	-975.8	915.9	1,338.3	3.00	-3.00	0.00
4,512.9	0.00	0.00	4,250.0	-975.8	915.9	1,338.3	3.00	-3.00	-1,062.44
Intermediate - SJ 27-4 #102P ICP									
4,600.0	0.00	0.00	4,337.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
4,700.0	0.00	0.00	4,437.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
4,743.9	0.00	0.00	4,481.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Huerfano Bentonite									
4,800.0	0.00	0.00	4,537.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
4,900.0	0.00	0.00	4,637.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
5,000.0	0.00	0.00	4,737.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
5,100.0	0.00	0.00	4,837.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
5,200.0	0.00	0.00	4,937.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
5,233.9	0.00	0.00	4,971.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Chacra									
5,300.0	0.00	0.00	5,037.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
5,400.0	0.00	0.00	5,137.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
5,500.0	0.00	0.00	5,237.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
5,600.0	0.00	0.00	5,337.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
5,700.0	0.00	0.00	5,437.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
5,800.0	0.00	0.00	5,537.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
5,900.0	0.00	0.00	5,637.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
5,959.9	0.00	0.00	5,697.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Upper Cliff House									
5,962.9	0.00	0.00	5,700.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Massive Cliff House									
6,000.0	0.00	0.00	5,737.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
6,094.9	0.00	0.00	5,832.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Menefee									
6,100.0	0.00	0.00	5,837.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
6,200.0	0.00	0.00	5,937.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,037.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,137.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
6,464.9	0.00	0.00	6,202.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Pt. Lookout									
6,500.0	0.00	0.00	6,237.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,337.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,437.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
6,800.0	0.00	0.00	6,537.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,637.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
6,937.9	0.00	0.00	6,675.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Mancos Shale									
7,000.0	0.00	0.00	6,737.1	-975.8	915.9	1,338.3	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #102P
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7202.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7202.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #102P	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #102P		
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)
7,100.0	0.00	0.00	6,837.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
7,200.0	0.00	0.00	6,937.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
7,300.0	0.00	0.00	7,037.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
7,400.0	0.00	0.00	7,137.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,237.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
7,575.9	0.00	0.00	7,313.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Gallup									
7,600.0	0.00	0.00	7,337.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,437.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,537.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,637.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,737.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
8,100.0	0.00	0.00	7,837.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
8,200.0	0.00	0.00	7,937.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,037.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
8,385.9	0.00	0.00	8,123.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Greenhorn									
8,400.0	0.00	0.00	8,137.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
8,444.9	0.00	0.00	8,182.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Graneros									
8,466.9	0.00	0.00	8,204.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Two Wells									
8,500.0	0.00	0.00	8,237.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
8,595.9	0.00	0.00	8,333.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Pauguate									
8,600.0	0.00	0.00	8,337.1	-975.8	915.9	1,338.3	0.00	0.00	0.00
8,618.9	0.00	0.00	8,356.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Upper Cubero									
8,646.9	0.00	0.00	8,384.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
Lower Cubero									
8,658.9	0.00	0.00	8,396.0	-975.8	915.9	1,338.3	0.00	0.00	0.00
SJ 27-4 #102P 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 #102P ICP - plan hits target center - Point		0.00	0.00	4,250.0	-975.8	915.9	2,013,398.65	669,053.27	36° 31' 55.171 N 107° 15' 28.527 W
SJ 27-4 #102P PCP - plan hits target center - Point		0.00	0.00	8,396.0	-975.8	915.9	2,013,398.67	669,053.23	36° 31' 55.171 N 107° 15' 28.527 W

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #102P
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7202.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7202.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #102P	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	SJ 27-4 #102P 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	
4,512.9	4,250.0	Intermediate	7	8-3/4	
8,658.9	8,396.0	Production	4-1/2	6-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,743.9	4,481.0	Huerfano Bentonite				
5,959.9	5,697.0	Upper Cliff House				
4,356.7	4,094.0	Lewis				
6,094.9	5,832.0	Menefee				
8,595.9	8,333.0	Paugate				
8,444.9	8,182.0	Graneros				
8,466.9	8,204.0	Two Wells				
8,385.9	8,123.0	Greenhorn				
2,384.5	2,269.0	Nacimiento				
6,464.9	6,202.0	Pt. Lookout				
3,796.2	3,550.0	Kirtland				
5,233.9	4,971.0	Chacra				
8,618.9	8,356.0	Upper Cubero				
7,575.9	7,313.0	Gallup				
3,714.9	3,475.0	Ojo Alamo				
6,937.9	6,675.0	Mancos Shale				
5,962.9	5,700.0	Massive Cliff House				
8,646.9	8,384.0	Lower Cubero				
4,292.4	4,030.0	Pictured Cliffs				
3,922.5	3,669.0	Fruitland				
15.0	15.0	San Jose				

REFERENCE INFORMATION

WELL @ 7202.0ft (Original Well Elev)

Ground Elevation 7187.0

Reference Lat: 36° 32' 4.820 N

Reference Long: 107° 15' 39.749 W

Project: San Juan Basin - New Mexico West W

Site: San Juan 27 Wells

Well: SJ 27-4 #102P

Wellbore: SJ 27-4 #102P

Design: Plan #1

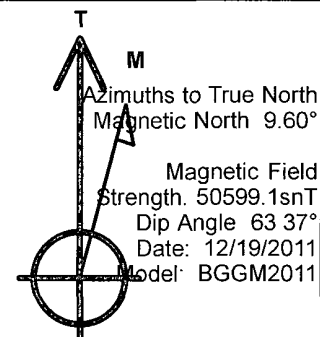
ConocoPhillips

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1569.2	24.98	136.81	1530.0	-195.5	183.5	2.00	136.81	268.1	
4	3680.1	24.98	136.81	3443.3	-845.5	793.6	0.00	0.00	1159.6	
5	4512.9	0.00	0.00	4250.0	-975.8	915.9	3.00	180.00	1338.3	SJ 27-4 #102P ICP
6	8658.9	0.00	0.00	8396.0	-975.8	915.9	0.00	0.00	1338.3	SJ 27-4 #102P PCP

FORMATION TOP DETAILS

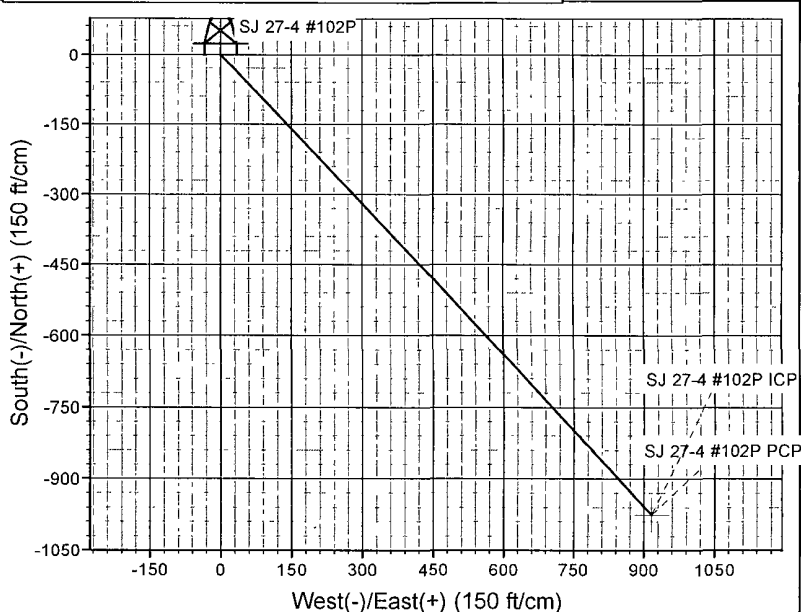
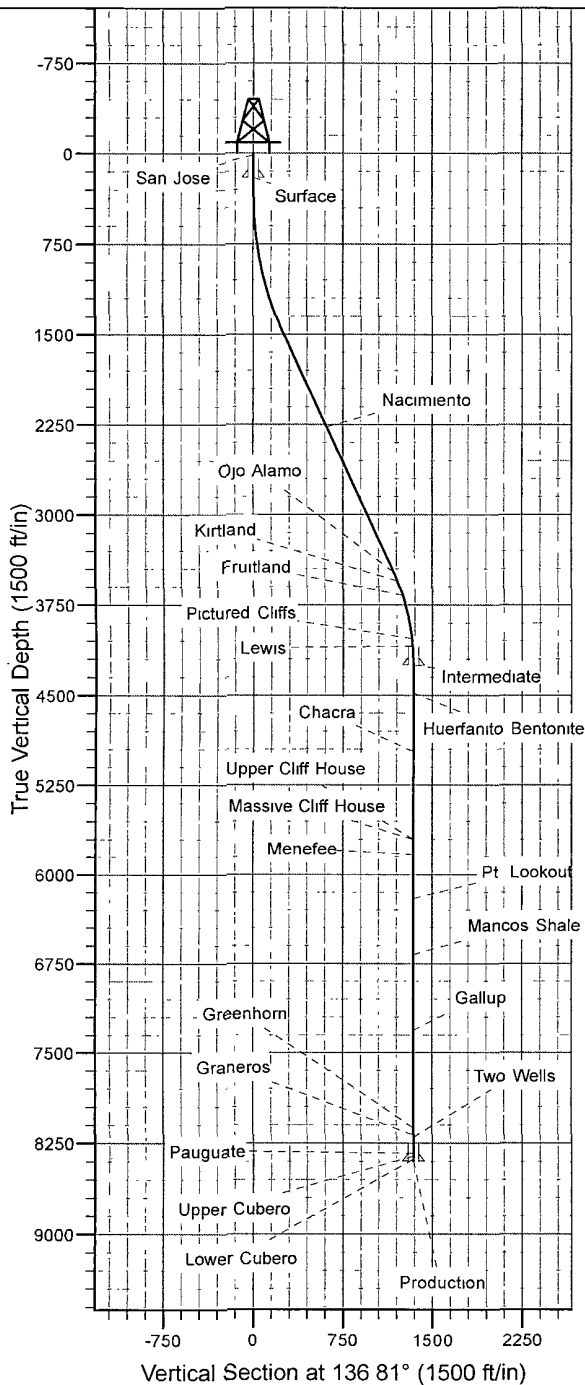
TVDPath	MDPath	Formation
15.0	15.0	San Jose
2269.0	2384.5	Nacimiento
3475.0	3714.9	Ojo Alamo
3550.0	3796.2	Kirtland
3669.0	3922.5	Fruitland
4030.0	4292.4	Pictured Cliffs
4094.0	4356.7	Lewis
4481.0	4743.9	Huerfano Bentonite
4971.0	5233.9	Chacra
5697.0	5959.9	Upper Cliff House
5700.0	5962.9	Massive Cliff House
5832.0	6094.9	Menefee
6202.0	6464.9	Pt. Lookout
6675.0	6937.9	Mancos Shale
7313.0	7575.9	Gallup
8123.0	8385.9	Greenhorn
8182.0	8444.9	Graneros
8204.0	8466.9	Two Wells
8333.0	8595.9	Pauguate
8356.0	8618.9	Upper Cubero
8384.0	8646.9	Lower Cubero



RCVD FEB 17 '12

OIL CONS. DIV.

DIST. 3



BURLINGTON RESOURCES OIL & GAS COMPANY LP
SAN JUAN 27-4 UNIT #102P
927' FNL, 985' FWL
SECTION 33, T-27-N, R-4-W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
NAD 83 LAT.: 36.534682°N LONG.: 107.261640°W
ELEV.: 7187 NAVD88
NO NEW ACCESS

DRIVING DIRECTIONS FROM BLOOMFIELD, N.M. AT THE INTERSECTION OF HWY. 550 AND HWY. 64: TRAVEL EAST ON HWY. 64 FOR 31.7 MILES (TO MILE POST 96.3) TURN RIGHT AT 29-6 WATER HOLE AND HEAD SOUTHEAST.

- STAY ON MAIN ROAD AND TURN LEFT AT 3.4 MI., CONTINUE ON MAIN ROAD.
- COME TO AN INTERSECTION AT 6.7 MI. FROM HWY. TURN RIGHT AND START HEADING SOUTH TOWARDS SANTOS PEAK ON "GENERAL AMERICAN ROAD".
- GO 7.75 MI. ON GENERAL AMERICAN ROAD. TO COTTONWOOD CROSSING. TURN RIGHT.
- GO 1.2 MI. SOUTH, CROSSING CEREZA WASH. TURN LEFT.
- GO 1.9 MI. EAST. STAY RIGHT. ENTER JARAMILLO CANYON AND FOREST ROAD 357.
- GO 4.3 MI. INTO JARAMILLO CANYON AND ON TOP OF CEREZA MESA. TURN LEFT ON FOREST ROAD 316.(LOCKED GATE).
- GO 0.9 MI. NORTH ON FOREST ROAD 316. TURN LEFT.
- GO 0.3 MI. TO WELL LOCATION BROG SAN JUAN 27-4 UNIT 102M. NEW WELL STAKED AT TWIN, SW 101FT. FROM WELL HEAD.