

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		5. Lease Number SF-079527 Unit Reporting Number
1b. Type of Well GAS	FEB 25 2013		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 San Juan 27-4 Unit 9. Well Number 29C
4. Location of Well Surface: Unit J(NW/SE), 1654' FSL & 1629' FEL BHL : Unit I(NE/SE), 1960' FSL & 710' FEL Surface: Latitude: 36.541629° N (NAD83) Longitude: 107.217307° W BHL : Latitude: 36.542468° N (NAD83) Longitude: 107.214183° W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 26, T27N, R4W API # 30-039-31183		
14. Distance in Miles from Nearest Town 93.1 From: Bloomfield	12. County Rio Arriba	13. State NM	
15. Distance from Proposed Location to Nearest Property or Lease Line 710'			
16. Acres in Lease 1,280.000	17. Acres Assigned to Well E/2 (320.00)	RCVD APR 12 '13 OIL CONS. DIV. DIST. 3	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 50.1' from: San Juan 27-4 Unit 83(P&A)/Pictured Cliffs well			
19. Proposed Depth 8573'	20. Rotary or Cable Tools Rotary		
21. Elevations (DF, FT, GR, Etc.) 7303' GL	22. Approx. Date Work will Start		
23. Proposed Casing and Cementing Program See Operations Plan attached			
24. Authorized by:  Kenny Davis (Staff Regulatory Tech)	2/22/2013 Date		

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

A gas recovery unit may or may not be used on this location.

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

Example Master Plan Type 3

Bond Numbers NMB-000015 and NMB-000089

APR 19 2013 ea

NWOCDA

for Directional Survey
and "As Drilled" plat

VERIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

A COMPLETE C-144 MUST BE SUBMITTED TO AND
APPROVED BY THE NWOCDA FOR: A PIT, CLOSED
LOOP SYSTEM, BELOW GRADE TANK, OR
PROPOSED ALTERNATIVE METHOD, PURSUANT
TO NWOCDA PART 19.15.17, PRIOR TO THE USE OR
CONSTRUCTION OF THE ABOVE APPLICATIONS.

Hold C104

for Directional Survey
and "As Drilled" plat

PC

RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1090 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
Farmington Field Office
State Lease - 7 Copies
Bureau of Land Management
Federal Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 31183		² Pool Code 71599 / 72319		³ Pool Name BLANCO BASIN DAKOTA / MESAVERDE	
⁴ Property Code 7452		⁵ Property Name SAN JUAN 27-4 UNIT			⁶ Well Number 29C
⁷ OGRID No. 14538		⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			⁹ Elevation 7303

¹⁰ SURFACE LOCATION

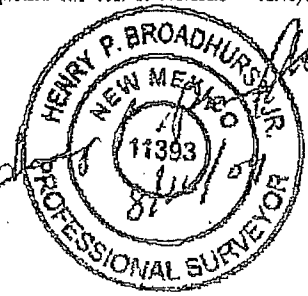
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	26	27-N	4-W		1654	SOUTH	1629	EAST	RIO ARriba

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
I	26	27-N	4-W		1960	SOUTH	710	EAST	RIO ARriba

¹² Dedicated Acres 320.00 (E/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

16 BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION. BOTTOM HOLE NAD 83 LAT: 36.542460° N LONG: 107.214183° W NAD 27 LAT: 36°32.547478' N LONG: 107°12.815116' W WELL FLAG NAD 83 LAT: 36.541629° N LONG: 107.217307° W NAD 27 LAT: 36°32.497157' N LONG: 107°13.002563' W N 69°42'14" E		5252.1' (R) E/2 DEDICATED ACREAGE USA SF-079527 SECTION 26, T-27-N, R-4-W		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. Signature Kenny Davis Printed Name kenny.r.davis@conocophillips.com Title and E-mail Address Date 2/22/2013	
		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: 7/28/09 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 29C

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9134				AFE \$: 0.00	
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:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface		Datum Code: NAD 27				Directional	
Latitude: 36.541619	Longitude: -107.216709	X:	Y:	Section: 26	Range: 004W		
Footage X: 1629 FEL	Footage Y: 1654 FSL	Elevation: 7303	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional	
Latitude: 36.542458	Longitude: -107.213585	X:	Y:	Section: 26	Range: 004W		
Footage X: 710 FEL	Footage Y: 1960 FSL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2014		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7318 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	7118		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	2463	4855		☐			
OJO ALAMO	3593	3725		☐			
KIRTLAND	3704	3614		☐			
FRUITLAND	3824	3494		☐			Possible Gas
PICTURED CLIFFS	4147	3171		☐			
LEWIS	4226	3092		☐			
Intermediate Casing	4376	2942		☐	116		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 986 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4621	2697		☐			
CHACRA	5111	2207		☐			
UPPER CLIFF HOUSE	5685	1633		☐			Gas; Est. Top Perf - 5857 (1461)
MASSIVE CLIFF HOUSE	5855	1463		☐	867		Gas; Cliffhouse is dry
MENEFEE	5973	1345		☐			
POINT LOOKOUT	6307	1011		☐			
MANCOS	6816	502		☐			
UPPER GALLUP	7446	-128		☐			
GREENHORN	8264	-946		☐			
GRANEROS	8323	-1005		☐			
TWO WELLS	8356	-1038		☐	3187		Gas
PAGUATE	8433	-1115		☐			
UPPER CUBERO	8477	-1159		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 29C

DEVELOPMENT

LOWER CUBERO	8510	-1192	☐	Est. Btm Perf - 8543 (- 1225) based on offset wells
OAK CANYON	8543	-1225	☐	
Total Depth	8573	-1255	☐	198 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/BTC casing. Cement w/ 550 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	8578	-1260	☐	TD - 5' Above T/ENCN

Reference Wells:

Reference Type	Well Name	Comments
Production	CHAMPLIN-4E	27N 4W 35 SE NW NE
Production	CHAMPLIN-6-25	27N 4W 25 NW SE NW
Production	CHAMPLIN-5C	27N 4W 25 E2 SW SW

Logging Program:

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

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

Quad combo and ECS for Mancos

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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ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #29C
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7318.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7318.0usft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #29C	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 #29C			
Well Position	+N/-S	0.0 usft	Northing:	2,016,978.35 usft
	+E/-W	0.0 usft	Easting:	681,139.67 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft
			Ground Level:	7,303.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	2/14/2013	9.44	63.33	50,465

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	71.60

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,614.7	22.29	71.60	1,586.8	67.6	203.2	2.00	2.00	0.00	71.60	
3,223.7	22.29	71.60	3,075.5	260.3	782.3	0.00	0.00	0.00	0.00	
3,966.8	0.00	0.00	3,800.0	305.3	917.8	3.00	-3.00	0.00	180.00	SJ 27-4 #29C VERTIC
4,542.8	0.00	0.00	4,376.0	305.3	917.8	0.00	0.00	0.00	0.00	SJ 27-4 #29C ICP
8,739.8	0.00	0.00	8,573.0	305.3	917.8	0.00	0.00	0.00	0.00	SJ 27-4 #29C PCP

ConocoPhillips

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Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7318.0usft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #29C	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
9 5/8" SURFACE CASING									
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	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	2.00	71.60	600.0	0.6	1.7	1.7	2.00	2.00	0.00
700.0	4.00	71.60	699.8	2.2	6.6	7.0	2.00	2.00	0.00
800.0	6.00	71.60	799.5	5.0	14.9	15.7	2.00	2.00	0.00
900.0	8.00	71.60	898.7	8.8	26.5	27.9	2.00	2.00	0.00
1,000.0	10.00	71.60	997.5	13.7	41.3	43.5	2.00	2.00	0.00
1,100.0	12.00	71.60	1,095.6	19.8	59.4	62.6	2.00	2.00	0.00
1,200.0	14.00	71.60	1,193.1	26.9	80.7	85.1	2.00	2.00	0.00
1,300.0	16.00	71.60	1,289.6	35.0	105.3	111.0	2.00	2.00	0.00
1,400.0	18.00	71.60	1,385.3	44.3	133.0	140.2	2.00	2.00	0.00
1,500.0	20.00	71.60	1,479.8	54.5	163.9	172.8	2.00	2.00	0.00
1,600.0	22.00	71.60	1,573.2	65.9	197.9	208.6	2.00	2.00	0.00
1,614.7	22.29	71.60	1,586.8	67.6	203.2	214.1	2.00	2.00	0.00
1,700.0	22.29	71.60	1,665.7	77.8	233.9	246.5	0.00	0.00	0.00
1,800.0	22.29	71.60	1,758.2	89.8	269.9	284.4	0.00	0.00	0.00
1,900.0	22.29	71.60	1,850.8	101.8	305.9	322.4	0.00	0.00	0.00
2,000.0	22.29	71.60	1,943.3	113.7	341.9	360.3	0.00	0.00	0.00
2,100.0	22.29	71.60	2,035.8	125.7	377.9	398.2	0.00	0.00	0.00
2,200.0	22.29	71.60	2,128.3	137.7	413.9	436.2	0.00	0.00	0.00
2,300.0	22.29	71.60	2,220.9	149.7	449.9	474.1	0.00	0.00	0.00
2,400.0	22.29	71.60	2,313.4	161.6	485.9	512.0	0.00	0.00	0.00
2,500.0	22.29	71.60	2,405.9	173.6	521.9	550.0	0.00	0.00	0.00
2,561.7	22.29	71.60	2,463.0	181.0	544.1	573.4	0.00	0.00	0.00
NACIMIENTO									
2,600.0	22.29	71.60	2,498.4	185.6	557.9	587.9	0.00	0.00	0.00
2,700.0	22.29	71.60	2,591.0	197.6	593.8	625.9	0.00	0.00	0.00
2,800.0	22.29	71.60	2,683.5	209.5	629.8	663.8	0.00	0.00	0.00
2,900.0	22.29	71.60	2,776.0	221.5	665.8	701.7	0.00	0.00	0.00
3,000.0	22.29	71.60	2,868.5	233.5	701.8	739.7	0.00	0.00	0.00
3,100.0	22.29	71.60	2,961.1	245.5	737.8	777.6	0.00	0.00	0.00
3,200.0	22.29	71.60	3,053.6	257.4	773.8	815.5	0.00	0.00	0.00
3,223.7	22.29	71.60	3,075.5	260.3	782.3	824.5	0.00	0.00	0.00
3,300.0	20.00	71.60	3,146.7	269.0	808.5	852.0	3.00	-3.00	0.00
3,400.0	17.00	71.60	3,241.5	279.0	838.6	883.8	3.00	-3.00	0.00
3,500.0	14.00	71.60	3,337.8	287.4	863.9	910.5	3.00	-3.00	0.00
3,600.0	11.00	71.60	3,435.5	294.3	884.5	932.2	3.00	-3.00	0.00
3,700.0	8.00	71.60	3,534.1	299.5	900.2	948.7	3.00	-3.00	0.00
3,759.4	6.22	71.60	3,593.0	301.8	907.1	956.0	3.00	-3.00	0.00
OJO ALAMO									
3,800.0	5.00	71.60	3,633.4	303.0	910.9	960.0	3.00	-3.00	0.00
3,870.7	2.88	71.60	3,704.0	304.6	915.5	964.8	3.00	-3.00	0.00
KIRTLAND									
3,900.0	2.00	71.60	3,733.2	305.0	916.7	966.1	3.00	-3.00	0.00
3,966.8	0.00	0.00	3,800.0	305.3	917.8	967.3	3.00	-3.00	0.00
3,990.8	0.00	0.00	3,824.0	305.3	917.8	967.3	0.00	0.00	0.00
FRUITLAND									
4,000.0	0.00	0.00	3,833.2	305.3	917.8	967.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #29C
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7318.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7318.0usft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #29C	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)	
4,100.0	0.00	0.00	3,933.2	305.3	917.8	967.3	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,033.2	305.3	917.8	967.3	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,133.2	305.3	917.8	967.3	0.00	0.00	0.00	
4,313.8	0.00	0.00	4,147.0	305.3	917.8	967.3	0.00	0.00	0.00	
PICTURED CLIFFS										
4,392.8	0.00	0.00	4,226.0	305.3	917.8	967.3	0.00	0.00	0.00	
LEWIS										
4,400.0	0.00	0.00	4,233.2	305.3	917.8	967.3	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,333.2	305.3	917.8	967.3	0.00	0.00	0.00	
4,542.8	0.00	0.00	4,376.0	305.3	917.8	967.3	0.00	0.00	0.00	
7" INTERMEDIATE CASING										
4,600.0	0.00	0.00	4,433.2	305.3	917.8	967.3	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,533.2	305.3	917.8	967.3	0.00	0.00	0.00	
4,787.8	0.00	0.00	4,621.0	305.3	917.8	967.3	0.00	0.00	0.00	
HUERFANITO BENTONITE										
4,800.0	0.00	0.00	4,633.2	305.3	917.8	967.3	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,733.2	305.3	917.8	967.3	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,833.2	305.3	917.8	967.3	0.00	0.00	0.00	
5,100.0	0.00	0.00	4,933.2	305.3	917.8	967.3	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,033.2	305.3	917.8	967.3	0.00	0.00	0.00	
5,277.8	0.00	0.00	5,111.0	305.3	917.8	967.3	0.00	0.00	0.00	
CHACRA										
5,300.0	0.00	0.00	5,133.2	305.3	917.8	967.3	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,233.2	305.3	917.8	967.3	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,333.2	305.3	917.8	967.3	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,433.2	305.3	917.8	967.3	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,533.2	305.3	917.8	967.3	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,633.2	305.3	917.8	967.3	0.00	0.00	0.00	
5,851.8	0.00	0.00	5,685.0	305.3	917.8	967.3	0.00	0.00	0.00	
UPPER CLIFFHOUSE										
5,900.0	0.00	0.00	5,733.2	305.3	917.8	967.3	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,833.2	305.3	917.8	967.3	0.00	0.00	0.00	
6,021.8	0.00	0.00	5,855.0	305.3	917.8	967.3	0.00	0.00	0.00	
LOWER CLIFFHOUSE										
6,100.0	0.00	0.00	5,933.2	305.3	917.8	967.3	0.00	0.00	0.00	
6,139.8	0.00	0.00	5,973.0	305.3	917.8	967.3	0.00	0.00	0.00	
MENESEE										
6,200.0	0.00	0.00	6,033.2	305.3	917.8	967.3	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,133.2	305.3	917.8	967.3	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,233.2	305.3	917.8	967.3	0.00	0.00	0.00	
6,473.8	0.00	0.00	6,307.0	305.3	917.8	967.3	0.00	0.00	0.00	
POINT LOOKOUT										
6,500.0	0.00	0.00	6,333.2	305.3	917.8	967.3	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,433.2	305.3	917.8	967.3	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,533.2	305.3	917.8	967.3	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,633.2	305.3	917.8	967.3	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,733.2	305.3	917.8	967.3	0.00	0.00	0.00	
6,982.8	0.00	0.00	6,816.0	305.3	917.8	967.3	0.00	0.00	0.00	
MANCOS										
7,000.0	0.00	0.00	6,833.2	305.3	917.8	967.3	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,933.2	305.3	917.8	967.3	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,033.2	305.3	917.8	967.3	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #29C
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 7318.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7318.0usft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #29C	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)
7,300.0	0.00	0.00	7,133.2	305.3	917.8	967.3	0.00	0.00	0.00
7,400.0	0.00	0.00	7,233.2	305.3	917.8	967.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,333.2	305.3	917.8	967.3	0.00	0.00	0.00
7,600.0	0.00	0.00	7,433.2	305.3	917.8	967.3	0.00	0.00	0.00
7,612.8	0.00	0.00	7,446.0	305.3	917.8	967.3	0.00	0.00	0.00
UPPER GALLUP									
7,700.0	0.00	0.00	7,533.2	305.3	917.8	967.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,633.2	305.3	917.8	967.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,733.2	305.3	917.8	967.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,833.2	305.3	917.8	967.3	0.00	0.00	0.00
8,100.0	0.00	0.00	7,933.2	305.3	917.8	967.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,033.2	305.3	917.8	967.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,133.2	305.3	917.8	967.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,233.2	305.3	917.8	967.3	0.00	0.00	0.00
8,430.8	0.00	0.00	8,264.0	305.3	917.8	967.3	0.00	0.00	0.00
GREENHORN									
8,489.8	0.00	0.00	8,323.0	305.3	917.8	967.3	0.00	0.00	0.00
GRANEROS									
8,500.0	0.00	0.00	8,333.2	305.3	917.8	967.3	0.00	0.00	0.00
8,522.8	0.00	0.00	8,356.0	305.3	917.8	967.3	0.00	0.00	0.00
TWO WELLS									
8,599.8	0.00	0.00	8,433.0	305.3	917.8	967.3	0.00	0.00	0.00
PAGUATE									
8,600.0	0.00	0.00	8,433.2	305.3	917.8	967.3	0.00	0.00	0.00
8,643.8	0.00	0.00	8,477.0	305.3	917.8	967.3	0.00	0.00	0.00
UPPER CUBERO									
8,676.8	0.00	0.00	8,510.0	305.3	917.8	967.3	0.00	0.00	0.00
LOWER CUBERO									
8,700.0	0.00	0.00	8,533.2	305.3	917.8	967.3	0.00	0.00	0.00
8,709.8	0.00	0.00	8,543.0	305.3	917.8	967.3	0.00	0.00	0.00
OAK CANYON									
8,739.8	0.00	0.00	8,573.0	305.3	917.8	967.3	0.00	0.00	0.00

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SJ 27-4 #29C ICP	0.00	0.00	4,376.0	305.4	917.8	2,017,289.59	682,055.45	36° 32' 32.849 N	107° 12' 48.907 W
- plan hits target center									
- Point									
SJ 27-4 #29C VERTICA	0.00	0.00	3,800.0	305.3	917.8	2,017,289.56	682,055.45	36° 32' 32.849 N	107° 12' 48.907 W
- plan hits target center									
- Point									
SJ 27-4 #29C PCP	0.00	0.00	8,573.0	305.4	917.8	2,017,289.59	682,055.45	36° 32' 32.849 N	107° 12' 48.907 W
- plan hits target center									
- Point									

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #29C
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7318.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 7318.0usft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #29C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
200.0	200.0	9 5/8" SURFACE CASING	9-5/8	12-1/4	
4,542.8	4,376.0	7" INTERMEDIATE CASING	7	7-1/2	
8,739.8	8,573.0	4 1/2" PRODUCTION CASING	4-1/2	8-3/4	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,851.8	5,685.0	UPPER CLIFFHOUSE		0.00		
4,392.8	4,226.0	LEWIS		0.00		
4,787.8	4,621.0	HUERFANITO BENTONITE		0.00		
8,522.8	8,356.0	TWO WELLS		0.00		
2,561.7	2,463.0	NACIMIENTO		0.00		
6,982.8	6,816.0	MANCOS		0.00		
6,473.8	6,307.0	POINT LOOKOUT		0.00		
8,643.8	8,477.0	UPPER CUBERO		0.00		
6,021.8	5,855.0	LOWER CLIFFHOUSE		0.00		
8,489.8	8,323.0	GRANEROS		0.00		
3,870.7	3,704.0	KIRTLAND		0.00		
4,313.8	4,147.0	PICTURED CLIFFS		0.00		
7,612.8	7,446.0	UPPER GALLUP		0.00		
8,709.8	8,543.0	OAK CANYON		0.00		
8,676.8	8,510.0	LOWER CUBERO		0.00		
6,139.8	5,973.0	MENEFEE		0.00		
8,599.8	8,433.0	PAGUATE		0.00		
8,430.8	8,264.0	GREENHORN		0.00		
3,990.8	3,824.0	FRUITLAND		0.00		
3,759.4	3,593.0	OJO ALAMO		0.00		
5,277.8	5,111.0	CHACRA		0.00		

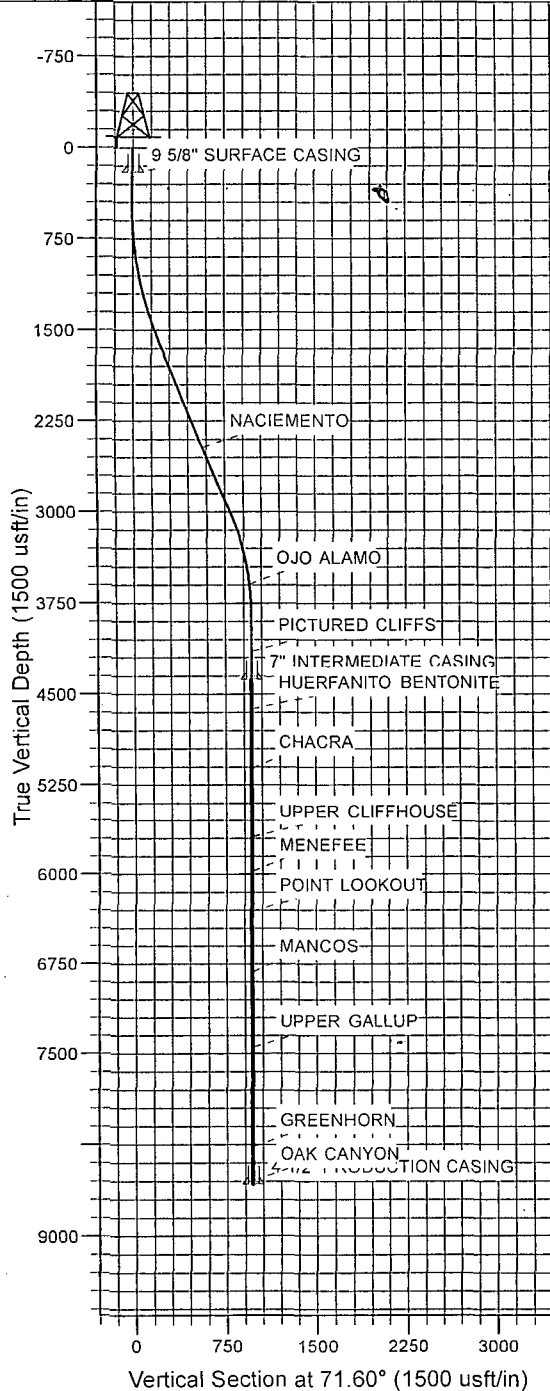
REFERENCE INFORMATION

WELL @ 7318.0usft (Original Well Elev)
Ground Elevation 7303.0
Reference Lat: 36° 32' 29.829 N
Reference Long: 107° 13' 0.154 W

Project: San Juan Basin - New Mexico West V
Site: San Juan 27 Wells
Well: SJ 27-4 #29C
Wellbore: Wellbore #1
Design: Design #1

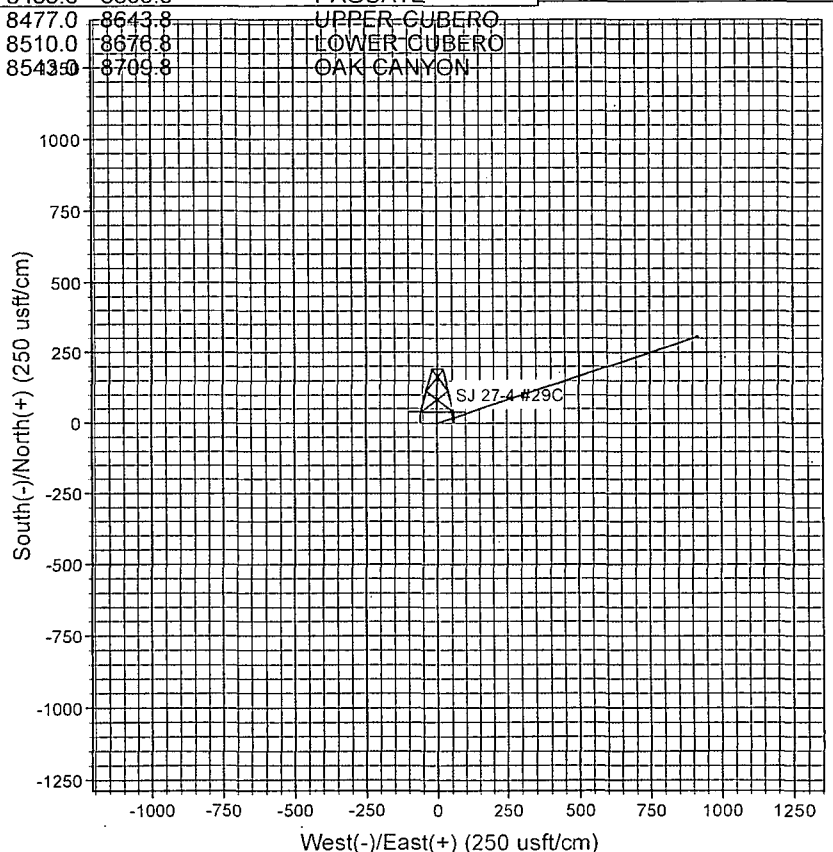
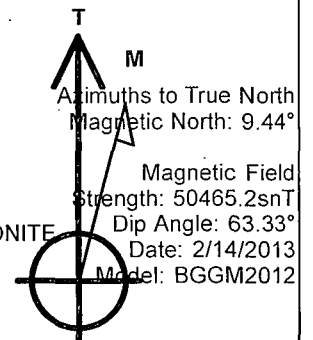
SECTION DETAILS

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	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1614.7	22.29	71.60	1586.8	67.6	203.2	2.00	71.60	214.1	
4	3223.7	22.29	71.60	3075.5	260.3	782.3	0.00	0.00	824.5	
5	3966.8	0.00	0.00	3800.0	305.3	917.8	3.00	180.00	967.3	SJ 27-4 #29C VERTICAL PT
6	4542.8	0.00	0.00	4376.0	305.3	917.8	0.00	0.00	967.3	SJ 27-4 #29C ICP
7	8739.8	0.00	0.00	8573.0	305.3	917.8	0.00	0.00	967.3	SJ 27-4 #29C PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2463.0	2561.7	NACIEMENTO
3593.0	3759.4	OJO ALAMO
3704.0	3870.7	KIRTLAND
3824.0	3990.8	FRUITLAND
4147.0	4313.8	ICTURED CLIFFS
4226.0	4392.8	LEWIS
4621.0	4787.8	HUERFANITO BENTONITE
5111.0	5277.8	CHACRA
5685.0	5851.8	UPPER CLIFFHOUSE
5855.0	6021.8	LOWER CLIFFHOUSE
5973.0	6139.8	MENELEE
6307.0	6473.8	POINT LOOKOUT
6816.0	6982.8	MANCOS
7446.0	7612.8	UPPER GALLUP
8264.0	8430.8	GREENHORN
8323.0	8489.8	GRANEROS
8356.0	8522.8	TWO WELLS
8433.0	8599.8	PAGUATE
8477.0	8643.8	UPPER CUBERO
8510.0	8676.8	LOWER CUBERO
8543.0	8709.8	OAK CANYON



BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT #29C

1654' FSL, 1629' FEL

SECTION 26, T-27-N, R-4-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.541629°N LONG.: 107.217307°W

ELEV.: 7303 NAVD88

NO NEW ACCESS

DRIVING DIRECTIONS FROM BLOOMFIELD, N.M. AT INTERSECTION HWY. 550 AND HWY. 64. TRAVEL EAST ON HWY. 64 TOWARDS DULCE, N.M.

- GO 60.4 MI. EAST ON STATE HWY. 64. TURN RIGHT ON STATE HWY. 537 (MILE POST 124.7) AND HEAD SOUTH.
- GO 27.0 MI. SOUTH ON HWY. 537. TURN RIGHT ONTO FOREST ROAD 314 AND HEAD NORTH INTO CEDAR CANYON.
- GO 3.4 MI. NORTH INTO FOREST AND WESTERLY ALONG FOREST ROAD 314 INTO COTTONWOOD CANYON. TURN RIGHT AND CONTINUE NORTH ON FOREST ROAD 314.
- GO 1.5 MI. NORTHEAST ON FOREST ROAD 314. TURN LEFT AND CONTINUE ON FOREST ROAD 314.
- GO 0.25 MI. WEST ON FOREST ROAD 314. TURN LEFT ON FOREST ROAD 315.
- GO 0.4 MI. WEST ON FOREST ROAD 315. TURN LEFT.
- GO 0.1 MI. SOUTH TO PLUGGED AND ABANDONED LOCATION FOR SJ 27-4 #83. WELL IS TWINNED HERE.