

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD MAR 19 '08
OIL CONS. DIV.

DIST. 3

Sundry Notices and Reports on Wells

RECEIVED

MAR 13 2008

Bureau of Land Management
Farmington Field Office

1. Type of Well
GAS

5. Lease Number
SF-078425

6. If Indian, All. or
Tribe Name

2. Name of Operator

BURLINGTON

RESOURCES OIL & GAS COMPANY LP

7. Unit Agreement Name
San Juan 29-7 Unit

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

8. Well Name & Number

#60N

9. API Well No.

30-039-30448

4. Location of Well, Footage, Sec., T, R, M

Unit J (NWSE) 1730' FSL & 1510' FEL, Sec. 34, T29N R7W NMPM

10. Field and Pool

Basin DK/Blanco MV

11. County and State
Rio Arriba Co., NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

☒ Notice of Intent☐ Abandonment☒ Change of Plans☐ Other☐ Subsequent Report☐ Recompletion☐ New Construction☐ Final Abandonment☐ Plugging☐ Non-Routine Fracturing☐ Casing Repair☐ Water Shut off☐ Altering Casing☐ Conversion to Injection

13. Describe Proposed or Completed Operations

Burlington Resources wishes to change the Intermediate Casing Depth and the Production Casing Depth. The APD was approved with Intermediate Casing set at 3900' and Burlington Resources wishes to change the **Intermediate Casing Depth to 4340'** to reduce the amount of torque required while drilling air hole. The APD was approved with Production Casing being set at 7903' and we wish to **change the Production Casing to 7936'** in order for Geology to look at the top of encinal formation to possibly produce. The new project proposal is attached as well as the directional drilling plan. Cement volumes will be adjusted accordingly. ✓

14. I hereby certify that the foregoing is true and correct.

Signed Crystal Walker Crystal Walker Title Regulatory Technician Date 3/13/2008

(This space for Federal or State Office use)

APPROVED BY Troy L. Salyers Title Petroleum Engineer Date 3-17-2008

CONDITION OF APPROVAL, if any:

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

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

NMOCDB

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-7 UNIT 60N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7202				AFE \$:	
Field Name: hBR_SAN JUAN 29-7 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #: 3003930448
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
<i>Directional</i>							
Location: Surface Datum Code: NAD 27							
Latitude: 36.679840	Longitude: -107.553855	X:	Y:	Section: 34		Range: 007W	
Footage X: 1510 FEL	Footage Y: 1730 FSL	Elevation: 6685 (FT)		Township: 029N			
Tolerance:							
<i>Directional</i>							
Location: Bottom Hole Datum Code: NAD 27							
Latitude: 36.677032	Longitude: -107.550853	X:	Y:	Section: 34		Range: 007W	
Footage X: 625 FEL	Footage Y: 710 FSL	Elevation:		Township: 029N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6700 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	215	6485	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 169 cuft. Circulate cement to surface.	
OJO ALAMO	2537	4163	☐				
KIRTLAND	2658	4042	☐				
FRUITLAND	3150	3550	☐			Possible Gas	
PICTURED CLIFFS	3440	3260	☐				
LEWIS	3580	3120	☐				
HUERFANITO BENTONITE	4042	2658	☐				
Intermediate Casing	4340	2360	☐			8 3/4" Hole. 7", 20/23 ppf, J-55, STC/LTC Casing. Cement with 934 cuft. Circulate cement to surface. ✓	
CHACRA	4398	2302	☐				
MASSIVE CLIFF HOUSE	5070	1630	☐	500		Gas	
MENEFEE	5230	1470	☐				
MASSIVE POINT LOOKOUT	5640	1060	☐				
MANCOS	5985	715	☐				
UPPER GALLUP	6845	-145	☐				
GREENHORN	7587	-887	☐				
GRANEROS	7647	-947	☐				
TWO WELLS	7690	-990	☐	1350		Gas	
UPPER CUBERO	7805	-1105	☐				
LOWER CUBERO	7835	-1135	☐				
ENCINAL	7906	-1206	☐			TD will be 30' into Encinal for completion of upper sand.	
TOTAL DEPTH DK	7936	-1236	☐			6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing. Cement with 546 cuft. Circulate cement a minimum of 100' inside the previous casing string. ✓	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-7 UNIT 60N

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
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Est bottom perf ~15' above TD. Mudlog from ~100' above the Greenhorn to TD. Mudloggers will call final TD.

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



Scientific Drilling
Directional Drilling Operations

ConocoPhillips

**SAN JUAN BASIN
SEC 34-T29N-77W
SJ 29-7 #60N R
OH**

Plan: Plan #2

Standard Planning Report

12 March, 2008

RCVD MAR 19 '08

OIL CONS. DIV.

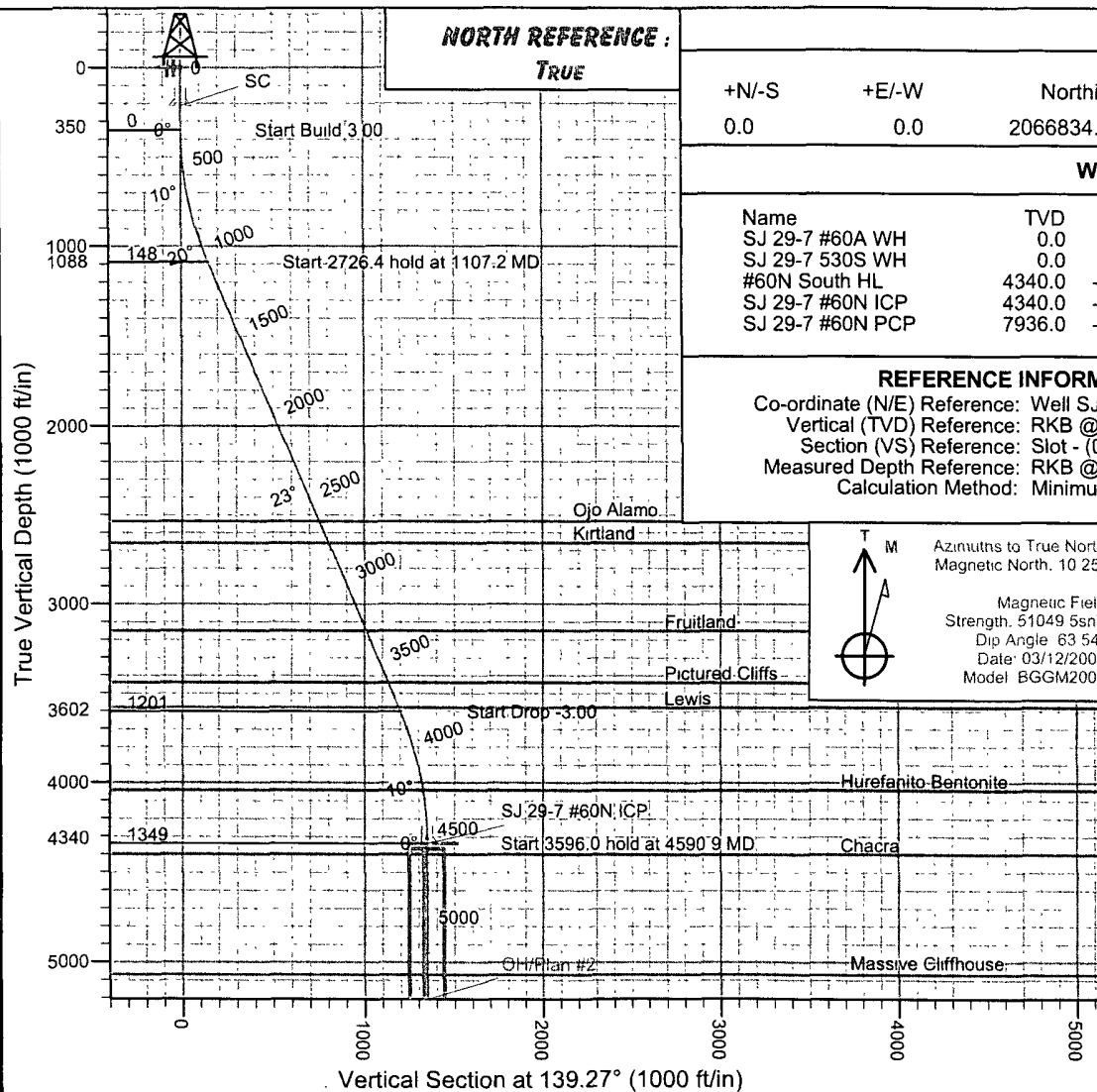
DIST. 3



ConocoPhillips



Project: SAN JUAN BASIN
Site: SEC 34-T29N-T7W
Well: SJ 29-7 #60N
Wellbore: OH
Design: Plan #2



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	350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	
3	1107.2	22.72	139.27	1087.5	-112.3	96.7	3.00	139.27	148.2	
4	3833.6	22.72	139.27	3602.5	-910.2	783.6	0.00	0.00	1201.0	
5	4590.9	0.00	0.00	4340.0	-1022.4	880.3	3.00	180.00	1349.2	SJ 29-7 #60N ICP
6	8186.9	0.00	0.00	7936.0	-1022.4	880.3	0.00	0.00	1349.2	SJ 29-7 #60N PCP

WELL DETAILS: SJ 29-7 #60N

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	2066834.71	581952.91	36° 40' 47.424 N	107° 33' 13.878 W

WELLBORE TARGET DETAILS (LAT/LONG)

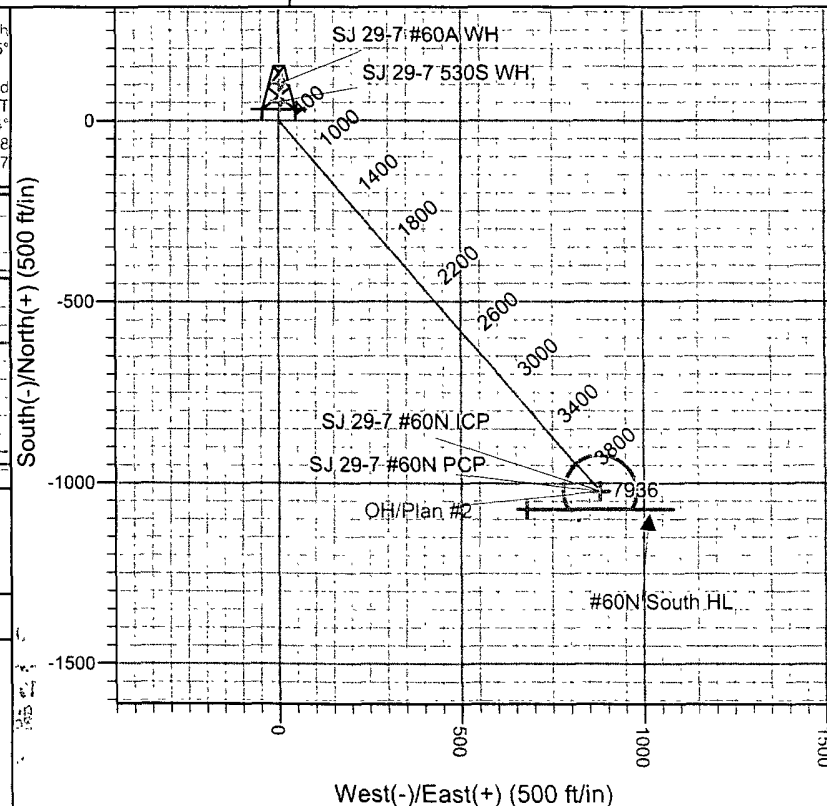
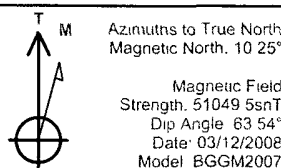
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
SJ 29-7 #60A WH	0.0	104.1	7.8	36° 40' 48.453 N	107° 33' 13.782 W	Point
SJ 29-7 530S WH	0.0	52.1	3.9	36° 40' 47.939 N	107° 33' 13.830 W	Point
#60N South HL	4340.0	-1072.4	680.3	36° 40' 36.820 N	107° 33' 5.527 W	Polygon
SJ 29-7 #60N ICP	4340.0	-1022.4	880.3	36° 40' 37.314 N	107° 33' 3.072 W	Circle (Radius: 100.0)
SJ 29-7 #60N PCP	7936.0	-1022.4	880.3	36° 40' 37.314 N	107° 33' 3.072 W	Circle (Radius: 100.0)

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well SJ 29-7 #60N, True North
Vertical (TVD) Reference: RKB @ 6700.0ft (AWS 711)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: RKB @ 6700.0ft (AWS 711)
Calculation Method: Minimum Curvature

PROJECT DETAILS: SAN JUAN BASIN

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well SJ 29-7 #60N
Company:	ConocoPhillips	TVD Reference:	RKB @ 6700 0ft (AWS 711)
Project:	SAN JUAN BASIN	MD Reference:	RKB @ 6700 0ft (AWS 711)
Site:	SEC 34-T29N-T7W	North Reference:	True
Well:	SJ 29-7 #60N	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Project:	SAN JUAN BASIN, NEW MEXICO		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		Using Well Reference Point
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site:	SEC 34-T29N-T7W		
Site Position:		Northing:	2,066,834.71 ft
From:	Lat/Long	Easting:	581,952.91 ft
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 40' 47.424 N
		Longitude:	107° 33' 13.878 W
		Grid Convergence:	0.17 °

Well:	SJ 29-7 #60N, S-Type MV/DK Well		
Well Position	+N/-S	0.0 ft	Northing: 2,066,834.71 ft
	+E/-W	0.0 ft	Easting: 581,952.91 ft
Position Uncertainty	15.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 40' 47.424 N
		Longitude:	107° 33' 13.878 W
		Ground Level:	6,685.0 ft

Wellbore:	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2007	03/12/2008	10.25	63.54	51,050

Design:	Plan #2		
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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	139.27

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	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,107.2	22.72	139.27	1,087.5	-112.3	96.7	3.00	3.00	0.00	139.27	
3,833.6	22.72	139.27	3,602.5	-910.2	783.6	0.00	0.00	0.00	0.00	
4,590.9	0.00	0.00	4,340.0	-1,022.4	880.3	3.00	-3.00	0.00	180.00	SJ 29-7 #60N ICP
8,186.9	0.00	0.00	7,936.0	-1,022.4	880.3	0.00	0.00	0.00	0.00	SJ 29-7 #60N PCP

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well SJ 29-7 #60N
Company:	ConocoPhillips	TVD Reference:	RKB @ 6700.0ft (AWS 711)
Project:	SAN JUAN BASIN	MD Reference:	RKB @ 6700.0ft (AWS 711)
Site:	SEC 34-T29N-T7W	North Reference:	True
Well:	SJ 29-7 #60N	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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
SJ 29-7 #60A WH - SJ 29-7 530S WH									
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
215.0	0.00	0.00	215.0	0.0	0.0	0.0	0.00	0.00	0.00
SC									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.50	139.27	400.0	-0.5	0.4	0.7	3.00	3.00	0.00
500.0	4.50	139.27	499.8	-4.5	3.8	5.9	3.00	3.00	0.00
600.0	7.50	139.27	599.3	-12.4	10.7	16.3	3.00	3.00	0.00
700.0	10.50	139.27	698.0	-24.2	20.9	32.0	3.00	3.00	0.00
800.0	13.50	139.27	795.8	-40.0	34.4	52.8	3.00	3.00	0.00
900.0	16.50	139.27	892.4	-59.6	51.3	78.6	3.00	3.00	0.00
1,000.0	19.50	139.27	987.5	-83.0	71.5	109.5	3.00	3.00	0.00
1,100.0	22.50	139.27	1,080.9	-110.2	94.9	145.4	3.00	3.00	0.00
1,107.2	22.72	139.27	1,087.5	-112.3	96.7	148.2	3.00	3.00	0.00
1,200.0	22.72	139.27	1,173.1	-139.4	120.0	184.0	0.00	0.00	0.00
1,300.0	22.72	139.27	1,265.4	-168.7	145.2	222.6	0.00	0.00	0.00
1,400.0	22.72	139.27	1,357.6	-198.0	170.4	261.2	0.00	0.00	0.00
1,500.0	22.72	139.27	1,449.8	-227.2	195.6	299.8	0.00	0.00	0.00
1,600.0	22.72	139.27	1,542.1	-256.5	220.8	338.5	0.00	0.00	0.00
1,700.0	22.72	139.27	1,634.3	-285.8	246.0	377.1	0.00	0.00	0.00
1,800.0	22.72	139.27	1,726.6	-315.0	271.2	415.7	0.00	0.00	0.00
1,900.0	22.72	139.27	1,818.8	-344.3	296.4	454.3	0.00	0.00	0.00
2,000.0	22.72	139.27	1,911.1	-373.5	321.6	492.9	0.00	0.00	0.00
2,100.0	22.72	139.27	2,003.3	-402.8	346.8	531.5	0.00	0.00	0.00
2,200.0	22.72	139.27	2,095.5	-432.1	372.0	570.2	0.00	0.00	0.00
2,300.0	22.72	139.27	2,187.8	-461.3	397.2	608.8	0.00	0.00	0.00
2,400.0	22.72	139.27	2,280.0	-490.6	422.4	647.4	0.00	0.00	0.00
2,500.0	22.72	139.27	2,372.3	-519.9	447.6	686.0	0.00	0.00	0.00
2,600.0	22.72	139.27	2,464.5	-549.1	472.8	724.6	0.00	0.00	0.00
2,678.6	22.72	139.27	2,537.0	-572.1	492.6	755.0	0.00	0.00	0.00
Ojo Alamo									
2,700.0	22.72	139.27	2,556.8	-578.4	498.0	763.3	0.00	0.00	0.00
2,800.0	22.72	139.27	2,649.0	-607.7	523.2	801.9	0.00	0.00	0.00
2,809.8	22.72	139.27	2,658.0	-610.5	525.7	805.6	0.00	0.00	0.00
Kirtland									
2,900.0	22.72	139.27	2,741.2	-636.9	548.4	840.5	0.00	0.00	0.00
3,000.0	22.72	139.27	2,833.5	-666.2	573.6	879.1	0.00	0.00	0.00
3,100.0	22.72	139.27	2,925.7	-695.5	598.8	917.7	0.00	0.00	0.00
3,200.0	22.72	139.27	3,018.0	-724.7	624.0	956.3	0.00	0.00	0.00
3,300.0	22.72	139.27	3,110.2	-754.0	649.2	995.0	0.00	0.00	0.00
3,343.1	22.72	139.27	3,150.0	-766.6	660.0	1,011.6	0.00	0.00	0.00
Fruitland									
3,400.0	22.72	139.27	3,202.5	-783.3	674.4	1,033.6	0.00	0.00	0.00
3,500.0	22.72	139.27	3,294.7	-812.5	699.6	1,072.2	0.00	0.00	0.00
3,600.0	22.72	139.27	3,386.9	-841.8	724.8	1,110.8	0.00	0.00	0.00
3,657.5	22.72	139.27	3,440.0	-858.6	739.3	1,133.0	0.00	0.00	0.00
Pictured Cliffs									
3,700.0	22.72	139.27	3,479.2	-871.1	750.0	1,149.4	0.00	0.00	0.00
3,800.0	22.72	139.27	3,571.4	-900.3	775.2	1,188.0	0.00	0.00	0.00
3,809.3	22.72	139.27	3,580.0	-903.0	777.5	1,191.6	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well SJ 29-7 #60N
Company:	ConocoPhillips	TVD Reference:	RKB @ 6700 0ft (AWS 711)
Project:	SAN JUAN BASIN	MD Reference:	RKB @ 6700 0ft (AWS 711)
Site:	SEC 34-T29N-T7W	North Reference:	True
Well:	SJ 29-7 #60N	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
Lewis									
3,833.6	22.72	139.27	3,602.5	-910.2	783.6	1,201.0	0.00	0.00	0.00
3,900.0	20.73	139.27	3,664.1	-928.8	799.7	1,225.6	3.00	-3.00	0.00
4,000.0	17.73	139.27	3,758.5	-953.7	821.1	1,258.5	3.00	-3.00	0.00
4,100.0	14.73	139.27	3,854.5	-974.9	839.4	1,286.5	3.00	-3.00	0.00
4,200.0	11.73	139.27	3,951.9	-992.2	854.3	1,309.3	3.00	-3.00	0.00
4,291.6	8.98	139.27	4,042.0	-1,004.7	865.0	1,325.8	3.00	-3.00	0.00
Hurefanito Bentonite									
4,300.0	8.73	139.27	4,050.3	-1,005.7	865.9	1,327.1	3.00	-3.00	0.00
4,400.0	5.73	139.27	4,149.4	-1,015.2	874.1	1,339.7	3.00	-3.00	0.00
4,500.0	2.73	139.27	4,249.2	-1,020.8	878.9	1,347.0	3.00	-3.00	0.00
4,588.7	0.07	139.27	4,337.8	-1,022.4	880.3	1,349.2	3.00	-3.00	0.00
#60N South HL									
4,590.9	0.00	0.00	4,340.0	-1,022.4	880.3	1,349.2	3.00	-3.00	-6,319.26
ICP - SJ 29-7 #60N ICP									
4,600.0	0.00	0.00	4,349.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
4,648.9	0.00	0.00	4,398.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
Chacra									
4,700.0	0.00	0.00	4,449.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
4,800.0	0.00	0.00	4,549.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
4,900.0	0.00	0.00	4,649.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
5,000.0	0.00	0.00	4,749.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
5,100.0	0.00	0.00	4,849.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
5,200.0	0.00	0.00	4,949.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
5,300.0	0.00	0.00	5,049.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
5,320.9	0.00	0.00	5,070.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
Massive Cliffhouse									
5,400.0	0.00	0.00	5,149.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
5,480.9	0.00	0.00	5,230.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
Menefee									
5,500.0	0.00	0.00	5,249.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
5,600.0	0.00	0.00	5,349.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
5,700.0	0.00	0.00	5,449.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
5,800.0	0.00	0.00	5,549.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
5,890.9	0.00	0.00	5,640.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
Pt. Lookout									
5,900.0	0.00	0.00	5,649.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
6,000.0	0.00	0.00	5,749.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
6,100.0	0.00	0.00	5,849.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
6,200.0	0.00	0.00	5,949.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
6,235.9	0.00	0.00	5,985.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
Mancos									
6,300.0	0.00	0.00	6,049.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
6,400.0	0.00	0.00	6,149.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
6,500.0	0.00	0.00	6,249.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,349.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,449.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,549.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
6,900.0	0.00	0.00	6,649.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
7,000.0	0.00	0.00	6,749.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
7,095.9	0.00	0.00	6,845.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
Gallup									

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well SJ 29-7 #60N
Company:	ConocoPhillips	TVD Reference:	RKB @ 6700.0ft (AWS 711)
Project:	SAN JUAN BASIN	MD Reference:	RKB @ 6700.0ft (AWS 711)
Site:	SEC 34-T29N-T7W	North Reference:	True
Well:	SJ 29-7 #60N	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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	6,849.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
7,200.0	0.00	0.00	6,949.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,049.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,149.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,249.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,349.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,449.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,549.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
7,837.9	0.00	0.00	7,587.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
Greenhorn									
7,897.9	0.00	0.00	7,647.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
Graneros									
7,900.0	0.00	0.00	7,649.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
7,940.9	0.00	0.00	7,690.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
Two Wells									
8,000.0	0.00	0.00	7,749.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
8,055.9	0.00	0.00	7,805.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
Upper Cubero									
8,085.9	0.00	0.00	7,835.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
Lower Cubero									
8,100.0	0.00	0.00	7,849.1	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
8,156.9	0.00	0.00	7,906.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
Encinal - PCP									
8,186.9	0.00	0.00	7,936.0	-1,022.4	880.3	1,349.2	0.00	0.00	0.00
SJ 29-7 #60N 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 29-7 #60N PCP	- plan hits target	0.00	0.00	7,936.0	-1,022.4	880.3	2,065,814.96	582,836.11	36° 40' 37.314 N 107° 33' 3.072 W
- Circle (radius 100.0)									
SJ 29-7 #60A WH	- plan misses by 104.4ft at 0.0ft MD (0.0 TVD, 0.0 N, 0.0 E)	0.00	0.00	0.0	104.1	7.8	2,066,938.83	581,960.43	36° 40' 48.453 N 107° 33' 13.782 W
- Point									
SJ 29-7 #60N ICP	- plan hits target	0.00	0.00	4,340.0	-1,022.4	880.3	2,065,814.92	582,836.12	36° 40' 37.314 N 107° 33' 3.072 W
- Circle (radius 100.0)									
SJ 29-7 530S WH	- plan misses by 52.2ft at 0.0ft MD (0.0 TVD, 0.0 N, 0.0 E)	0.00	0.00	0.0	52.1	3.9	2,066,886.77	581,956.67	36° 40' 47.939 N 107° 33' 13.830 W
- Point									
#60N South HL	- plan misses by 206.2ft at 4590.8ft MD (4339.9 TVD, -1022.4 N, 880.3 E)	0.00	0.00	4,340.0	-1,072.4	680.3	2,065,764.38	582,636.28	36° 40' 36.820 N 107° 33' 5.527 W
- Polygon									
Point 1				4,340.0	-1,072.4	1,080.3	2,065,765.54	583,036.24	
Point 2				4,340.0	-1,072.4	680.3	2,065,764.38	582,636.28	

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well SJ 29-7 #60N
Company:	ConocoPhillips	TVD Reference:	RKB @ 6700.0ft (AWS 711)
Project:	SAN JUAN BASIN	MD Reference:	RKB @ 6700.0ft (AWS 711)
Site:	SEC 34-T29N-T7W	North Reference:	True
Well:	SJ 29-7 #60N	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
215.0	215.0	SC	9-5/8	12-1/4
4,590.9	4,340.0	ICP	7	8-3/4
8,156.9	7,906.0	PCP	4-1/2	6-1/4

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,678.6	2,537.0	Ojo Alamo		0.00	
2,809.8	2,658.0	Kirtland		0.00	
3,343.1	3,150.0	Fruitland		0.00	
3,657.5	3,440.0	Pictured Cliffs		0.00	
3,809.3	3,580.0	Lewis		0.00	
4,291.6	4,042.0	Hurefanite Bentonite		0.00	
4,648.9	4,398.0	Chacra		0.00	
5,320.9	5,070.0	Massive Cliffhouse		0.00	
5,480.9	5,230.0	Menefee		0.00	
5,890.9	5,640.0	Pt Lookout		0.00	
6,235.9	5,985.0	Mancos		0.00	
7,095.9	6,845.0	Gallup		0.00	
7,837.9	7,587.0	Greenhorn		0.00	
7,897.9	7,647.0	Graneros		0.00	
7,940.9	7,690.0	Two Wells		0.00	
8,055.9	7,805.0	Upper Cubero		0.00	
8,085.9	7,835.0	Lower Cubero		0.00	
8,156.9	7,906.0	Encinal		0.00	