

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

2007 AUG -9 PM 3:19

1. Type of Well
GAS

RECEIVED
BLM
210 FARMINGTON NM

2. Name of Operator

ConocoPhillips

3. Address & Phone No. of Operator

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

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

Sec., T--N, R--W, NMPM

Unit J (NWSE) 2020' FSL & 1790' FEL, Sec.25, T28N, R7W NMPM
Unit H (SENE) 2500' FNL & 660' FEL, Sec.25, T28N, R7W NMPM

5. Lease Number
SF-079294

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. San Juan 28-7 Unit
Well Name & Number

San Juan 28-7 Unit 221G

9. API Well No.

30-039-30228

10. Field and Pool

Basin DK/Blanco Mesa Verde

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 Intermediate Depth Change

☐ 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

ConocoPhillips requests to change the intermediate depth.

The directional plan has changed slightly resulting in a decrease of angle drop in the Chacra. We get back to vertical 100' into the Chacra. We are requesting to change the intermediate casing depth from the APD approval of 4365' to a new depth of 4218'.

Directional plan is attached.

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

Signed Tracey N. Monroe

Tracey N. Monroe Title Regulatory Technician Date 8/9/07

(This space for Federal or State Office use)

APPROVED BY Original Signed: Stephen Mason Title

Date AUG 15 2007

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.

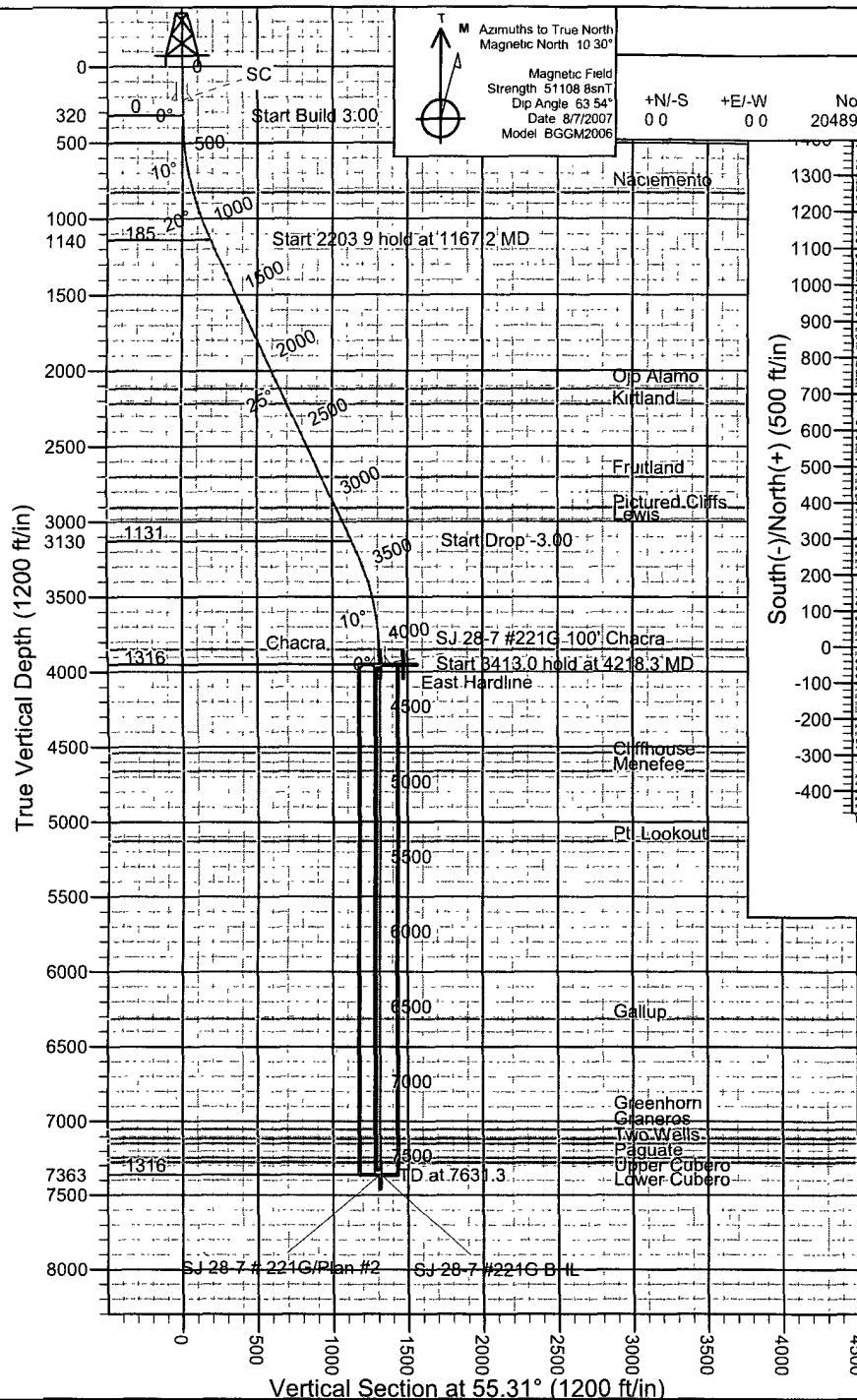
NOTED FOR directional survey

NOTIFY AZTEC OCD
PRIOR TO CASING & CEMENT
NMOCD

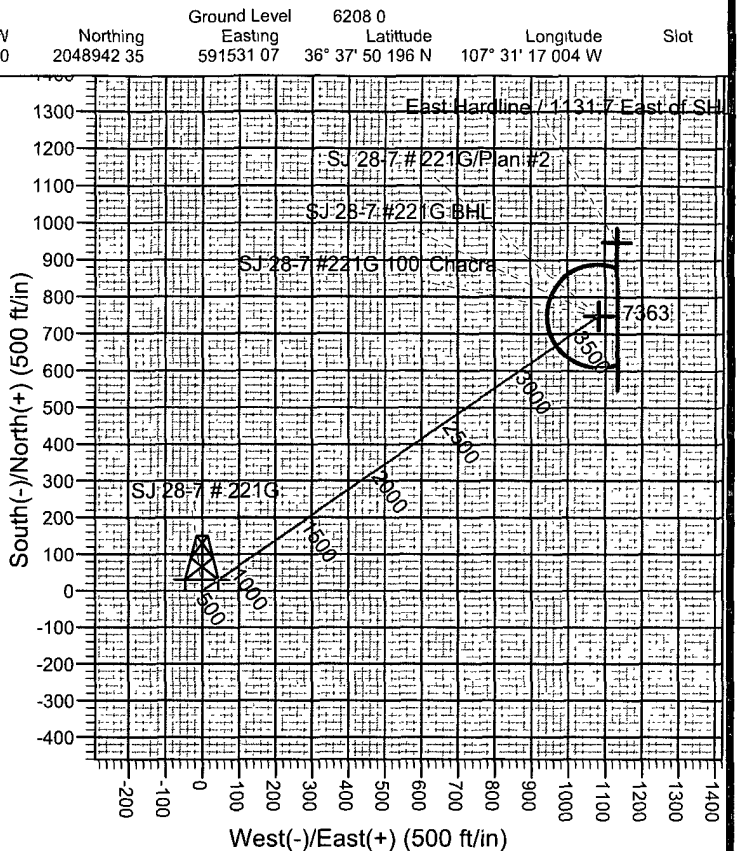
RCVD AUG 16 '07
DIL CONS. DIV.
DIST. 3



Project: SAN JUAN BASIN
Site: SEC 25-T28N-R7W
Well: SJ 28-7 # 221G
Wellbore: OH
Design: Plan #2



WELL DETAILS: SJ 28-7 # 221G



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

SITE DETAILS: SEC 25-T28N-R7W

Site Centre Latitude: 36° 37' 50.196 N
Longitude: 107° 31' 17.004 W
Positional Uncertainty: 7.5
Convergence: 0.19
Local North: TRUE

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well SJ 28-7 # 221G, True North
Vertical (TVD) Reference: RKB @ 6223.0ft (AWS 711)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: RKB @ 6223.0ft (AWS 711)
Calculation Method: Minimum Curvature

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	1167.2	25.42	55.31	1139.7	105.2	152.0	3.00	55.31	184.8	
4	3371.1	25.42	55.31	3130.3	643.6	929.7	0.00	0.00	1130.7	
5	4218.3	0.00	0.00	3950.0	748.8	1081.7	3.00	180.00	1315.6	SJ 28-7 #221G 100' Chacra
6	7631.3	0.00	0.00	7363.0	748.8	1081.7	0.00	0.00	1315.6	SJ 28-7 #221G BHL

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
East Hardline	3950.0	948.0	1131.7	2049893.95	592659.60	36° 37' 59.570 N	107° 31' 3.120 W	Polygon
SJ 28-7 #221G 100' Chacra	3950.0	748.8	1081.7	2049694.60	592610.25	36° 37' 57.600 N	107° 31' 3.733 W	Circle (Radius 140.0)
SJ 28-7 #221G BHL	7363.0	748.8	1081.7	2049694.59	592610.25	36° 37' 57.600 N	107° 31' 3.733 W	Circle (Radius 140.0)



Scientific Drilling
Directional Drilling Operations

ConocoPhillips

**SAN JUAN BASIN
SEC 25-T28N-R7W
SJ 28-7 # 221G
OH**

Plan: Plan #2

Standard Planning Report

07 August, 2007


ConocoPhillips

Database:	EDM 2003 16 Single User Db	Local Co-ordinate Reference:	Well SJ 28-7 # 221G
Company:	ConocoPhillips	TVD Reference:	RKB @ 6223 0ft (AWS 711)
Project:	SAN JUAN BASIN	MD Reference:	RKB @ 6223 0ft (AWS 711)
Site:	SEC 25-T28N-R7W	North Reference:	True
Well:	SJ 28-7 # 221G	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 25-T28N-R7W		
Site Position:		Northing:	2,048,942.35 ft
From:	Lat/Long	Easting:	591,531.07 ft
Position Uncertainty:	15.0 ft	Slot Radius:	12-1/4"
		Latitude:	36° 37' 50.196 N
		Longitude:	107° 31' 17.004 W
		Grid Convergence:	0 19 °

Well:	SJ 28-7 # 221G, S-Type Dakota Well		
Well Position	+N/-S	0.0 ft	Northing: 2,048,942.35 ft
	+E/-W	0.0 ft	Easting: 591,531.07 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 37' 50.196 N
		Longitude:	107° 31' 17.004 W
		Ground Level:	6,208.0 ft

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2006	8/7/2007	(°)	(°)	(nT)
			10.30	63.54	51,109

Design:	Plan #2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	55.31

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	
1,167.2	25.42	55.31	1,139.7	105.2	152.0	3.00	3.00	0.00	55.31	
3,371.1	25.42	55.31	3,130.3	643.6	929.7	0.00	0.00	0.00	0.00	
4,218.3	0.00	0.00	3,950.0	748.8	1,081.7	3.00	-3.00	0.00	180.00	SJ 28-7 #221G 100
7,631.3	0.00	0.00	7,363.0	748.8	1,081.7	0.00	0.00	0.00	0.00	SJ 28-7 #221G BHI

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well SJ 28-7 # 221G
Company:	ConocoPhillips	TVD Reference:	RKB @ 6223.0ft (AWS 711)
Project:	SAN JUAN BASIN	MD Reference:	RKB @ 6223.0ft (AWS 711)
Site:	SEC 25-T28N-R7W	North Reference:	True
Well:	SJ 28-7 # 221G	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
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
220.0	0.00	0.00	220.0	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
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	2.40	55.31	400.0	1.0	1.4	1.7	3.00	3.00	0.00
500.0	5.40	55.31	499.7	4.8	7.0	8.5	3.00	3.00	0.00
600.0	8.40	55.31	599.0	11.7	16.8	20.5	3.00	3.00	0.00
700.0	11.40	55.31	697.5	21.4	31.0	37.7	3.00	3.00	0.00
800.0	14.40	55.31	795.0	34.2	49.3	60.0	3.00	3.00	0.00
834.2	15.43	55.31	828.0	39.2	56.6	68.8	3.00	3.00	0.00
Nacimiento									
900.0	17.40	55.31	891.1	49.7	71.9	87.4	3.00	3.00	0.00
1,000.0	20.40	55.31	985.7	68.2	98.5	119.8	3.00	3.00	0.00
1,100.0	23.40	55.31	1,078.5	89.4	129.2	157.1	3.00	3.00	0.00
1,167.2	25.42	55.31	1,139.7	105.2	152.0	184.8	3.00	3.00	0.00
1,200.0	25.42	55.31	1,169.3	113.2	163.6	198.9	0.00	0.00	0.00
1,300.0	25.42	55.31	1,259.6	137.6	198.8	241.8	0.00	0.00	0.00
1,400.0	25.42	55.31	1,350.0	162.1	234.1	284.8	0.00	0.00	0.00
1,500.0	25.42	55.31	1,440.3	186.5	269.4	327.7	0.00	0.00	0.00
1,600.0	25.42	55.31	1,530.6	210.9	304.7	370.6	0.00	0.00	0.00
1,700.0	25.42	55.31	1,620.9	235.4	340.0	413.5	0.00	0.00	0.00
1,800.0	25.42	55.31	1,711.2	259.8	375.3	456.4	0.00	0.00	0.00
1,900.0	25.42	55.31	1,801.6	284.2	410.6	499.4	0.00	0.00	0.00
2,000.0	25.42	55.31	1,891.9	308.6	445.9	542.3	0.00	0.00	0.00
2,100.0	25.42	55.31	1,982.2	333.1	481.2	585.2	0.00	0.00	0.00
2,200.0	25.42	55.31	2,072.5	357.5	516.4	628.1	0.00	0.00	0.00
2,251.5	25.42	55.31	2,119.0	370.1	534.6	650.2	0.00	0.00	0.00
Ojo Alamo									
2,300.0	25.42	55.31	2,162.8	381.9	551.7	671.0	0.00	0.00	0.00
2,363.3	25.42	55.31	2,220.0	397.4	574.1	698.2	0.00	0.00	0.00
Kirtland									
2,400.0	25.42	55.31	2,253.2	406.4	587.0	713.9	0.00	0.00	0.00
2,500.0	25.42	55.31	2,343.5	430.8	622.3	756.9	0.00	0.00	0.00
2,600.0	25.42	55.31	2,433.8	455.2	657.6	799.8	0.00	0.00	0.00
2,700.0	25.42	55.31	2,524.1	479.6	692.9	842.7	0.00	0.00	0.00
2,800.0	25.42	55.31	2,614.5	504.1	728.2	885.6	0.00	0.00	0.00
2,896.9	25.42	55.31	2,702.0	527.8	762.4	927.2	0.00	0.00	0.00
Fruitland									
2,900.0	25.42	55.31	2,704.8	528.5	763.5	928.5	0.00	0.00	0.00
3,000.0	25.42	55.31	2,795.1	552.9	798.8	971.5	0.00	0.00	0.00
3,100.0	25.42	55.31	2,885.4	577.4	834.0	1,014.4	0.00	0.00	0.00
3,123.9	25.42	55.31	2,907.0	583.2	842.5	1,024.6	0.00	0.00	0.00
Pictured Cliffs									
3,200.0	25.42	55.31	2,975.7	601.8	869.3	1,057.3	0.00	0.00	0.00
3,210.2	25.42	55.31	2,985.0	604.3	872.9	1,061.7	0.00	0.00	0.00
Lewis									
3,300.0	25.42	55.31	3,066.1	626.2	904.6	1,100.2	0.00	0.00	0.00
3,371.1	25.42	55.31	3,130.3	643.6	929.7	1,130.7	0.00	0.00	0.00
3,400.0	24.55	55.31	3,156.5	650.5	939.7	1,142.9	3.00	-3.00	0.00
3,500.0	21.55	55.31	3,248.5	672.8	971.9	1,182.1	3.00	-3.00	0.00

Database: EDM 2003.16 Single User Db
Company: ConocoPhillips
Project: SAN JUAN BASIN
Site: SEC 25-T28N-R7W
Well: SJ 28-7 # 221G
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well SJ 28-7 # 221G
TVD Reference: RKB @ 6223.0ft (AWS 711)
MD Reference: RKB @ 6223.0ft (AWS 711)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,600.0	18.55	55.31	3,342.4	692.3	1,000.1	1,216.4	3.00	-3.00	0.00
3,700.0	15.55	55.31	3,438.0	709.0	1,024.2	1,245.7	3.00	-3.00	0.00
3,800.0	12.55	55.31	3,535.0	722.8	1,044.2	1,270.0	3.00	-3.00	0.00
3,900.0	9.55	55.31	3,633.1	733.7	1,059.9	1,289.1	3.00	-3.00	0.00
4,000.0	6.55	55.31	3,732.1	741.7	1,071.5	1,303.1	3.00	-3.00	0.00
4,100.0	3.55	55.31	3,831.7	746.7	1,078.7	1,311.9	3.00	-3.00	0.00
4,118.3	3.00	55.31	3,850.0	747.3	1,079.5	1,313.0	3.00	-3.00	0.00
Chacra									
4,200.0	0.55	55.31	3,931.7	748.7	1,081.6	1,315.5	3.00	-3.00	0.00
4,218.3	0.00	0.00	3,950.0	748.8	1,081.7	1,315.6	3.00	-3.00	0.00
7" - East Hardline - SJ 28-7 #221G 100' Chacra									
4,300.0	0.00	0.00	4,031.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
4,400.0	0.00	0.00	4,131.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
4,500.0	0.00	0.00	4,231.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
4,600.0	0.00	0.00	4,331.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
4,700.0	0.00	0.00	4,431.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
4,800.0	0.00	0.00	4,531.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
4,806.3	0.00	0.00	4,538.0	748.8	1,081.7	1,315.6	0.00	0.00	0.00
Cliffhouse									
4,900.0	0.00	0.00	4,631.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
4,930.3	0.00	0.00	4,662.0	748.8	1,081.7	1,315.6	0.00	0.00	0.00
Menefee									
5,000.0	0.00	0.00	4,731.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
5,030.3	0.00	0.00	4,762.0	748.8	1,081.7	1,315.6	0.00	0.00	0.00
SJ 28-7 #221G 100' Menefee									
5,100.0	0.00	0.00	4,831.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
5,200.0	0.00	0.00	4,931.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
5,300.0	0.00	0.00	5,031.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
5,398.3	0.00	0.00	5,130.0	748.8	1,081.7	1,315.6	0.00	0.00	0.00
Pt. Lookout									
5,400.0	0.00	0.00	5,131.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
5,500.0	0.00	0.00	5,231.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
5,600.0	0.00	0.00	5,331.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
5,700.0	0.00	0.00	5,431.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,531.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
5,900.0	0.00	0.00	5,631.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
6,000.0	0.00	0.00	5,731.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
6,100.0	0.00	0.00	5,831.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
6,200.0	0.00	0.00	5,931.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
6,300.0	0.00	0.00	6,031.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,131.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
6,500.0	0.00	0.00	6,231.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
6,583.3	0.00	0.00	6,315.0	748.8	1,081.7	1,315.6	0.00	0.00	0.00
Gallup									
6,600.0	0.00	0.00	6,331.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
6,700.0	0.00	0.00	6,431.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,531.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
6,900.0	0.00	0.00	6,631.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,731.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
7,100.0	0.00	0.00	6,831.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
7,200.0	0.00	0.00	6,931.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
7,300.0	0.00	0.00	7,031.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
7,321.3	0.00	0.00	7,053.0	748.8	1,081.7	1,315.6	0.00	0.00	0.00

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Project: SAN JUAN BASIN
Site: SEC 25-T28N-R7W
Well: SJ 28-7 # 221G
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well SJ 28-7 # 221G
 RKB @ 6223.0ft (AWS 711)
 RKB @ 6223.0ft (AWS 711)
 True
 Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Greenhorn									
7,381.3	0.00	0.00	7,113.0	748.8	1,081.7	1,315.6	0.00	0.00	0.00
Graneros									
7,400.0	0.00	0.00	7,131.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
7,414.3	0.00	0.00	7,146.0	748.8	1,081.7	1,315.6	0.00	0.00	0.00
Two Wells									
7,500.0	0.00	0.00	7,231.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
7,516.3	0.00	0.00	7,248.0	748.8	1,081.7	1,315.6	0.00	0.00	0.00
Paguate									
7,546.3	0.00	0.00	7,278.0	748.8	1,081.7	1,315.6	0.00	0.00	0.00
Upper Cubero									
7,550.3	0.00	0.00	7,282.0	748.8	1,081.7	1,315.6	0.00	0.00	0.00
Lower Cubero									
7,600.0	0.00	0.00	7,331.7	748.8	1,081.7	1,315.6	0.00	0.00	0.00
7,631.3	0.00	0.00	7,363.0	748.8	1,081.7	1,315.6	0.00	0.00	0.00
SJ 28-7 #221G BHL									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
hit/miss target									
Shape									
East Hardline	0.00	0.00	3,950.0	948.0	1,131.7	2,049,893.95	592,659.60	36° 37' 59.570 N	107° 31' 3.120 W
- plan misses by 205.4ft at 4218.3ft MD (3950.0 TVD, 748.8 N, 1081.7 E)									
- Polygon									
Point 1			3,950.0	548.0	1,131.7	2,049,493.98	592,660.90		
Point 2			3,950.0	949.0	1,131.7	2,049,894.95	592,659.59		
SJ 28-7 #221G 100' C	0.00	0.00	3,950.0	748.8	1,081.7	2,049,694.60	592,610.25	36° 37' 57.600 N	107° 31' 3.733 W
- plan hits target									
- Circle (radius 140.0)									
SJ 28-7 #221G BHL	0.00	0.00	7,363.0	748.8	1,081.7	2,049,694.59	592,610.25	36° 37' 57.600 N	107° 31' 3.733 W
- plan hits target									
- Circle (radius 140.0)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
220.0	220.0	SC	9-5/8	12-1/4
4,218.3	3,950.0	7"	7	8-3/4

Database: EDM 2003.16 Single User Db
Company: ConocoPhillips
Project: SAN JUAN BASIN
Site: SEC 25-T28N-R7W
Well: SJ 28-7 # 221G
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well SJ 28-7 # 221G
TVD Reference: RKB @ 6223.0ft (AWS 711)
MD Reference: RKB @ 6223.0ft (AWS 711)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
834.2	828.0	Nacimiento		0.00	
2,251.5	2,119.0	Ojo Alamo		0.00	
2,363.3	2,220.0	Kirtland		0.00	
2,896.9	2,702.0	Fruitland		0.00	
3,123.9	2,907.0	Pictured Cliffs		0.00	
3,210.2	2,985.0	Lewis		0.00	
4,118.3	3,850.0	Chacra		0.00	
4,806.3	4,538.0	Cliffhouse		0.00	
4,930.3	4,662.0	Menefee		0.00	
5,398.3	5,130.0	Pt. Lookout		0.00	
6,583.3	6,315.0	Gallup		0.00	
7,321.3	7,053.0	Greenhorn		0.00	
7,381.3	7,113.0	Graneros		0.00	
7,414.3	7,146.0	Two Wells		0.00	
7,516.3	7,248.0	Paguate		0.00	
7,546.3	7,278.0	Upper Cubero		0.00	
7,550.3	7,282.0	Lower Cubero		0.00	