

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

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

Surf: Unit F (SENW), 1665' FNL & 1910' FWL, Section 22, T28N, R7W, NMPM
BH: Unit L (NWSW), 2500' FSL & 1000' FWL, Section 22, T28N, R7W, NMPM

2515 1002

5. Lease Number
SF-078417-A

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name
San Juan 28-7 Unit

8. Well Name & Number
San Juan 28-7 Unit 220G

9. API Well No.
30-039-30276

10. Field and Pool

Blanco MV/Basin DK

Rio Arriba Co., NM

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

Type of Submission

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

Type of Action

☐ Abandonment ☐ Change of Plans
☐ Plugging ☐ Non-Routine Fracturing
☐ Casing Repair ☐ Water Shut off
☐ Altering Casing ☐ Conversion to Injection

☒ Other - Change int casing depth

13. Describe Proposed or Completed Operations

Want to change the intermediate casing depth from 4300' to 4900'.

Cement plan will be adjusted according.

Attached is a new Project Proposal and DD survey.

RCVD OCT 16 '07

OIL CONS. DIV.

DIST. 3

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

Signed Rhonda Rogers Rhonda Rogers Title Regulatory Technician Date 10/12/07

(This space for Federal or State Office use)

APPROVED BY Petr. Eng Title Petr. Eng Date 10/15/07

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

Note: * A minimum of 23" J/K-SS 7" casing will be required to meet casing design factors for the increased depth.

INMOCD

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 220G

DEVELOPMENT

Lease:		AFE #: WAN.CNV.7167				AFE \$:	
Field Name: 28-7		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #: 3003930276
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Glaser, Terry J		Phone: (832)486-2332		Prod. Engineer: Fontenot, Jessie C		Phone: +1 832-486-3483	
Res. Engineer: Johnson, Tom B.		Phone: (832)-486-2347		Proj. Field Lead: Fransen, Eric E.		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.650551	Longitude: -107.563978	X:	Y:	Section: 22		Range: 007W	
Footage X: 1910 FWL	Footage Y: 1665 FNL	Elevation:	(FT)	Township: 028N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.646218	Longitude: -107.565858	X:	Y:	Section: 22		Range: 007W	
Footage X: 1000 FWL	Footage Y: 2500 FSL	Elevation: 6805	(FT)	Township: 028N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2007		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6819 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
SURFACE CSG	300	6519	☐			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 282 cuft. Circulate Cmt to surface.	
NCMT	1319	5500	☐				
OJAM	2647	4172	☐			Possible water flows.	
KRLD	2743	4076	☐				
FRLD	3054	3765	☐			Possible gas.	
PCCF	3503	3316	☐				
LEWS	3585	3234	☐				
CHRA	4429	2390	☐				
Intermediate Casing	4900	1919	☐			8 3/4" hole. 7" 20 ppf J-55, STC casing. Circulate cement to surface. Cement with 1152 cu.ft.	
UCLFH	5021	1798	☐				
MASSIVE CLIFF HOUSE	5107	1712	☐			Gas; possibly wet	
MENF	5266	1553	☐			Gas.	
PTLK	5662	1157	☐			Gas.	
GLLP	6894	-75	☐			Gas. Possibly wet.	
GRHN	7633	-814	☐			Gas possible, highly fractured	
GRANEROS	7704	-885	☐				
TWLS	7738	-919	☐			Gas	
PAGU	7829	-1010	☐			Gas. Highly Fractured.	
CBBO	7854	-1035	☐			Gas	
CBRL	7879	-1060	☐				
ENCINAL	7952	-1133	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 220G

DEVELOPMENT

Total Depth	7962	-1143	☐	2500	6-1/4" Hole. 4-1/2", 10.5/11.6 ppf, J-55 STC/LTC casing. Cement with 420 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments
Production	28-7. #220M	NW 22-28N-7W

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

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

Mudlog from 100' above GRHN to TD - mudlogger will call TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - Surface loc changed to accommodate a 4 well pad. Surf will be near the #220M (1,490 FNL 1,800 FWL)
MVNM028N007W22SW2 DK 28N07W22SW2



Scientific Drilling
Directional Drilling Operations

ConocoPhillips

**SAN JUAN BASIN
SEC 22-T28N-R7W
SJ 28-7 #220G
OH**

Plan: Plan #1

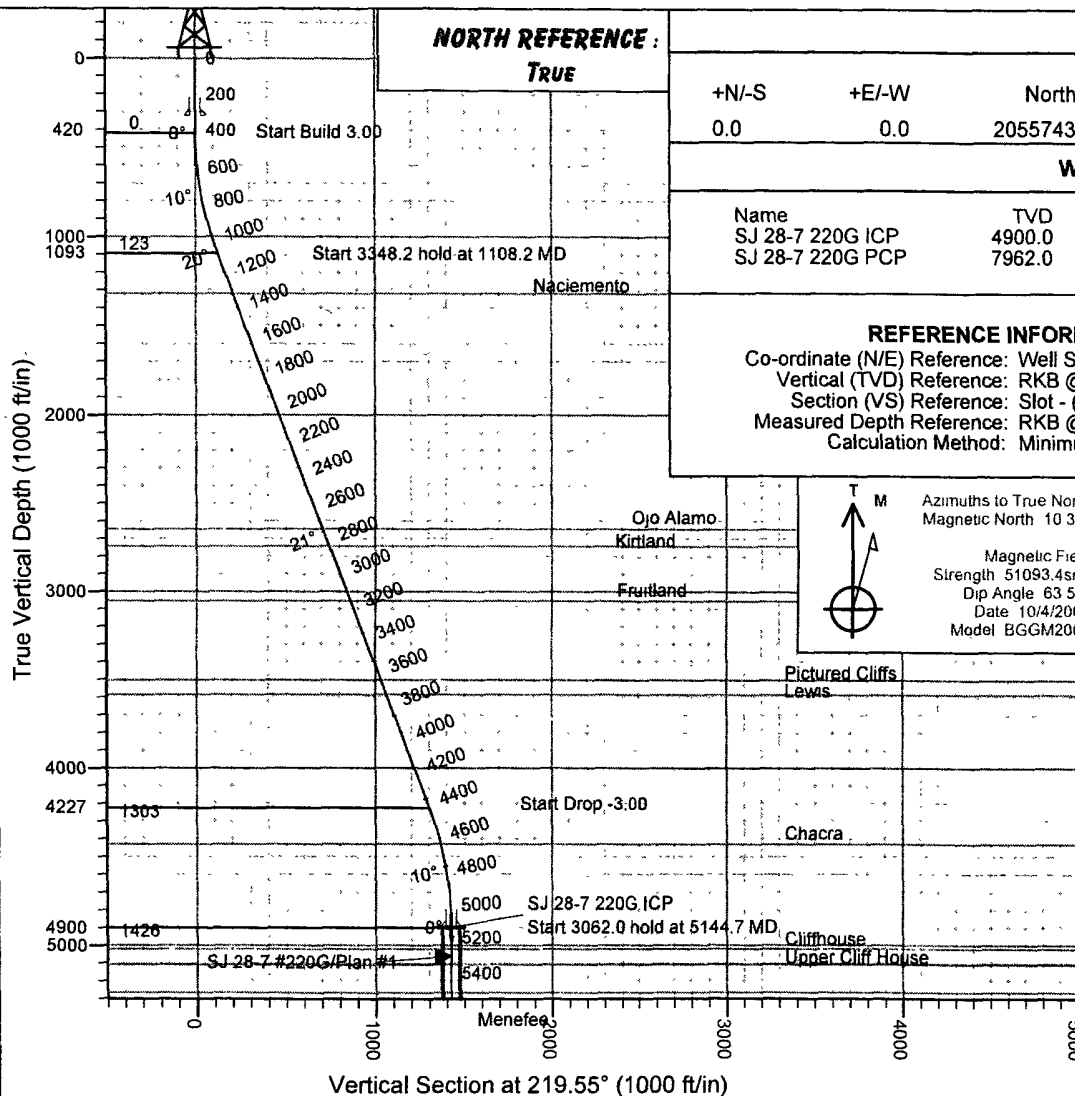
Standard Planning Report

04 October, 2007


ConocoPhillips



Project: SAN JUAN BASIN
Site: SEC 22-T28N-R7W
Well: SJ 28-7 #220G
Wellbore: OH
Design: Plan #1



WELL DETAILS: SJ 28-7 #220G

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	2055743.27	579369.96	36° 38' 57.815 N	107° 33' 45.972 W

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
SJ 28-7 220G ICP	4900.0	-1099.5	-908.0	36° 38' 46.943 N	107° 33' 57.114 W	Circle (Radius: 50.0)
SJ 28-7 220G PCP	7962.0	-1099.5	-908.0	36° 38' 46.943 N	107° 33' 57.114 W	Circle (Radius: 50.0)

REFERENCE INFORMATION

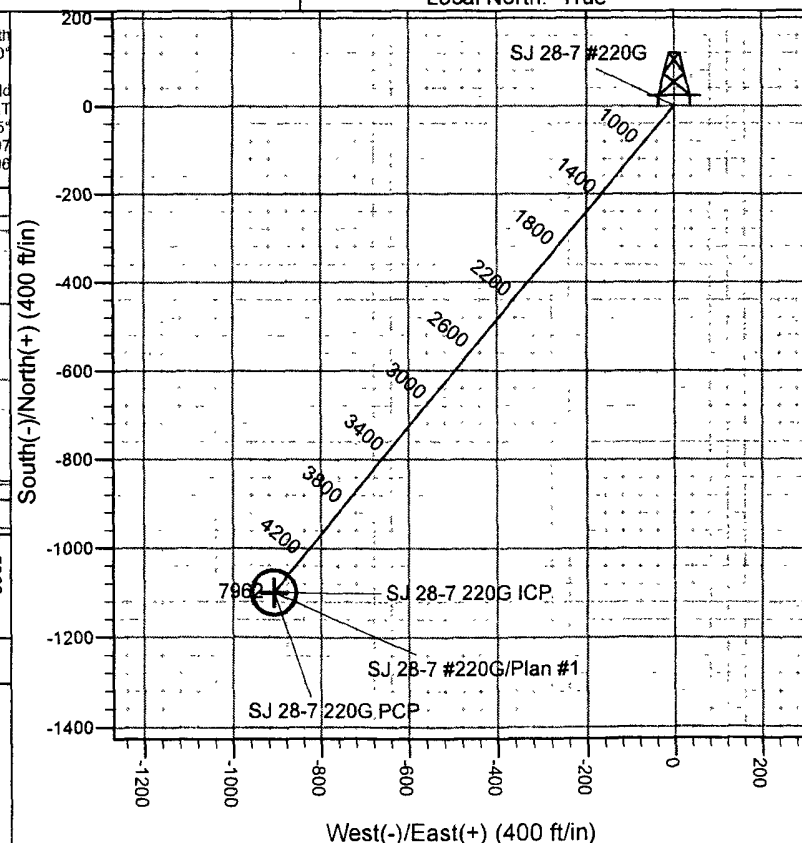
Co-ordinate (N/E) Reference: Well SJ 28-7 #220G, True North
Vertical (TVD) Reference: RKB @ 6820.0ft (AWS 711)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: RKB @ 6820.0ft (AWS 711)
Calculation Method: Minimum Curvature

SITE DETAILS: SEC 22-T28N-R7W

Farmington
Site Centre Latitude: 36° 39' 1.984 N
Longitude: 107° 33' 49.093 W
Positional Uncertainty: 0.0
Convergence: 0.16
Local North: True



Azimuths to True North
Magnetic North 10 30'
Magnetic Field
Strength 51093.4snT
Dip Angle 63.55°
Date 10/4/2007
Model BGGM2006



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	420.0	0.00	0.00	420.0	0.0	0.0	0.00	0.00	0.0	
3	1108.2	20.65	219.55	1093.4	-94.6	-78.1	3.00	219.55	122.7	
4	4456.4	20.65	219.55	4226.6	-1004.9	-829.9	0.00	0.00	1303.3	
5	5144.7	0.00	0.00	4900.0	-1099.5	-908.0	3.00	180.00	1426.0	SJ 28-7 220G ICP
6	8206.7	0.00	0.00	7962.0	-1099.5	-908.0	0.00	0.00	1426.0	SJ 28-7 220G PCP



Scientific Drilling Planning Report



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well SJ 28-7 #220G
Company:	ConocoPhillips	TVD Reference:	RKB @ 6820.0ft (AWS 7.11)
Project:	SAN JUAN BASIN	MD Reference:	RKB @ 6820.0ft (AWS 7.11)
Site:	SEC 22-T28N-R7W	North Reference:	True
Well:	SJ 28-7 #220G	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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 22-T28N-R7W		
Site Position:		Northing:	2,056,164.11 ft
From:	Lat/Long	Easting:	579,114.44 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 39' 1.984 N
		Longitude:	107° 33' 49.093 W
		Grid Convergence:	0.16 °

Well	SJ 28-7 #220G S-Type Dakota Well		
Well Position	+N/-S	0.0 ft	Northing: 2,055,743.27 ft
	+E/-W	0.0 ft	Easting: 579,369.96 ft
Position Uncertainty	15.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 38' 57.815 N
		Longitude:	107° 33' 45.972 W
		Ground Level:	6,805.0 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2006	10/4/2007	(°)	(°)	(nT)
			10.30	63.55	51,093

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	219.55

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	
420.0	0.00	0.00	420.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,108.2	20.85	219.55	1,093.4	-94.6	-78.1	3.00	3.00	0.00	219.55	
4,456.4	20.65	219.55	4,226.6	-1,004.9	-829.9	0.00	0.00	0.00	0.00	
5,144.7	0.00	0.00	4,900.0	-1,099.5	-908.0	3.00	-3.00	0.00	180.00	SJ 28-7 220G ICP
8,206.7	0.00	0.00	7,962.0	-1,099.5	-908.0	0.00	0.00	0.00	0.00	SJ 28-7 220G PCP

Database: EDM 2003.16 Single User Db
Company: ConocoPhillips
Project: SAN JUAN BASIN
Site: SEC 22-T28N-R7W
Well: SJ 28-7 #220G
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well SJ 28-7 #220G
TVD Reference: RKB @ 6820.0ft (AWS.711)
MD Reference: RKB @ 6820.0ft (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)
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
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
SC									
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
420.0	0.00	0.00	420.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	2.40	219.55	500.0	-1.3	-1.1	1.7	3.00	3.00	0.00
600.0	5.40	219.55	599.7	-6.5	-5.4	8.5	3.00	3.00	0.00
700.0	8.40	219.55	699.0	-15.8	-13.0	20.5	3.00	3.00	0.00
800.0	11.40	219.55	797.5	-29.1	-24.0	37.7	3.00	3.00	0.00
900.0	14.40	219.55	895.0	-46.3	-38.2	60.0	3.00	3.00	0.00
1,000.0	17.40	219.55	991.1	-67.4	-55.7	87.4	3.00	3.00	0.00
1,100.0	20.40	219.55	1,085.7	-92.4	-76.3	119.8	3.00	3.00	0.00
1,108.2	20.65	219.55	1,093.4	-94.6	-78.1	122.7	3.00	3.00	0.00
1,200.0	20.65	219.55	1,179.3	-119.5	-98.7	155.0	0.00	0.00	0.00
1,300.0	20.65	219.55	1,272.9	-146.7	-121.2	190.3	0.00	0.00	0.00
1,349.3	20.65	219.55	1,319.0	-160.1	-132.2	207.7	0.00	0.00	0.00
Nacimiento									
1,400.0	20.65	219.55	1,366.5	-173.9	-143.6	225.6	0.00	0.00	0.00
1,500.0	20.65	219.55	1,460.0	-201.1	-166.1	260.8	0.00	0.00	0.00
1,600.0	20.65	219.55	1,553.6	-228.3	-188.5	296.1	0.00	0.00	0.00
1,700.0	20.65	219.55	1,647.2	-255.5	-211.0	331.3	0.00	0.00	0.00
1,800.0	20.65	219.55	1,740.8	-282.7	-233.4	366.6	0.00	0.00	0.00
1,900.0	20.65	219.55	1,834.3	-309.8	-255.9	401.9	0.00	0.00	0.00
2,000.0	20.65	219.55	1,927.9	-337.0	-278.4	437.1	0.00	0.00	0.00
2,100.0	20.65	219.55	2,021.5	-364.2	-300.8	472.4	0.00	0.00	0.00
2,200.0	20.65	219.55	2,115.1	-391.4	-323.3	507.6	0.00	0.00	0.00
2,300.0	20.65	219.55	2,208.7	-418.6	-345.7	542.9	0.00	0.00	0.00
2,400.0	20.65	219.55	2,302.2	-445.8	-368.2	578.2	0.00	0.00	0.00
2,500.0	20.65	219.55	2,395.8	-473.0	-390.6	613.4	0.00	0.00	0.00
2,600.0	20.65	219.55	2,489.4	-500.2	-413.1	648.7	0.00	0.00	0.00
2,700.0	20.65	219.55	2,583.0	-527.4	-435.5	683.9	0.00	0.00	0.00
2,768.4	20.65	219.55	2,647.0	-546.0	-450.9	708.1	0.00	0.00	0.00
Ojo Alamo									
2,800.0	20.65	219.55	2,676.5	-554.5	-458.0	719.2	0.00	0.00	0.00
2,871.0	20.65	219.55	2,743.0	-573.9	-473.9	744.3	0.00	0.00	0.00
Kirtland									
2,900.0	20.65	219.55	2,770.1	-581.7	-480.4	754.5	0.00	0.00	0.00
3,000.0	20.65	219.55	2,863.7	-608.9	-502.9	789.7	0.00	0.00	0.00
3,100.0	20.65	219.55	2,957.3	-636.1	-525.3	825.0	0.00	0.00	0.00
3,200.0	20.65	219.55	3,050.8	-663.3	-547.8	860.3	0.00	0.00	0.00
3,203.4	20.65	219.55	3,054.0	-664.2	-548.6	861.4	0.00	0.00	0.00
Fruitland									
3,300.0	20.65	219.55	3,144.4	-690.5	-570.3	895.5	0.00	0.00	0.00
3,400.0	20.65	219.55	3,238.0	-717.7	-592.7	930.8	0.00	0.00	0.00
3,500.0	20.65	219.55	3,331.6	-744.9	-615.2	966.0	0.00	0.00	0.00
3,600.0	20.65	219.55	3,425.2	-772.0	-637.6	1,001.3	0.00	0.00	0.00
3,683.2	20.65	219.55	3,503.0	-794.7	-656.3	1,030.6	0.00	0.00	0.00
Pictured Cliffs									
3,700.0	20.65	219.55	3,518.7	-799.2	-660.1	1,036.6	0.00	0.00	0.00
3,770.8	20.65	219.55	3,585.0	-818.5	-676.0	1,061.5	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local/Co-ordinate Reference:	Well SJ 28-7 #220G
Company:	ConocoPhillips	TVD Reference:	RKB @ 6820.0ft (AWS 711)
Project:	SAN JUAN BASIN	MD Reference:	RKB @ 6820.0ft (AWS 711)
Site:	SEC 22-T28N-R7W	North Reference:	True
Well:	SJ 28-7 #220G	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
Lewis									
3,800.0	20.65	219.55	3,612.3	-826.4	-682.5	1,071.8	0.00	0.00	0.00
3,900.0	20.65	219.55	3,705.9	-853.6	-705.0	1,107.1	0.00	0.00	0.00
4,000.0	20.65	219.55	3,799.5	-880.8	-727.4	1,142.3	0.00	0.00	0.00
4,100.0	20.65	219.55	3,893.0	-908.0	-749.9	1,177.6	0.00	0.00	0.00
4,200.0	20.65	219.55	3,986.6	-935.2	-772.3	1,212.9	0.00	0.00	0.00
4,300.0	20.65	219.55	4,080.2	-962.4	-794.8	1,248.1	0.00	0.00	0.00
4,400.0	20.65	219.55	4,173.8	-989.5	-817.2	1,283.4	0.00	0.00	0.00
4,456.4	20.65	219.55	4,226.6	-1,004.9	-829.9	1,303.3	0.00	0.00	0.00
4,500.0	19.34	219.55	4,267.5	-1,016.4	-839.4	1,318.2	3.00	-3.00	0.00
4,600.0	16.34	219.55	4,362.7	-1,040.0	-858.9	1,348.8	3.00	-3.00	0.00
4,668.7	14.28	219.55	4,429.0	-1,054.0	-870.5	1,367.0	3.00	-3.00	0.00
Chacra									
4,700.0	13.34	219.55	4,459.3	-1,059.7	-875.2	1,374.4	3.00	-3.00	0.00
4,800.0	10.34	219.55	4,557.2	-1,075.6	-888.3	1,394.9	3.00	-3.00	0.00
4,900.0	7.34	219.55	4,656.0	-1,087.4	-898.1	1,410.3	3.00	-3.00	0.00
5,000.0	4.34	219.55	4,755.5	-1,095.3	-904.5	1,420.5	3.00	-3.00	0.00
5,100.0	1.34	219.55	4,855.3	-1,099.1	-907.7	1,425.4	3.00	-3.00	0.00
5,144.7	0.00	0.00	4,900.0	-1,099.5	-908.0	1,426.0	3.00	-3.00	0.00
ICP - SJ 28-7 220G ICP									
5,200.0	0.00	0.00	4,955.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
5,265.7	0.00	0.00	5,021.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
Upper Cliff House									
5,300.0	0.00	0.00	5,055.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
5,351.7	0.00	0.00	5,107.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
Cliffhouse									
5,400.0	0.00	0.00	5,155.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,255.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
5,510.7	0.00	0.00	5,266.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
Menefee									
5,600.0	0.00	0.00	5,355.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,455.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,555.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,655.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
5,906.7	0.00	0.00	5,662.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
Point Lookout									
6,000.0	0.00	0.00	5,755.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
6,100.0	0.00	0.00	5,855.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
6,200.0	0.00	0.00	5,955.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,055.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,155.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,255.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,355.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,455.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,555.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,655.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,755.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
7,100.0	0.00	0.00	6,855.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
7,138.7	0.00	0.00	6,894.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
Gallup									
7,200.0	0.00	0.00	6,955.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,055.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00

Database: EDM 2003.16 Single User Db
Company: ConocoPhillips
Project: SAN JUAN BASIN
Site: SEC 22-T28N-R7W
Well: SJ 28-7 #220G
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well SJ 28-7 #220G
TVD Reference: RKB @ 6820.0ft (AWS 711)
MD Reference: RKB @ 6820.0ft (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)
7,400.0	0.00	0.00	7,155.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,255.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,355.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,455.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,555.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
7,877.7	0.00	0.00	7,633.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
Greenhorn									
7,900.0	0.00	0.00	7,655.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
7,948.7	0.00	0.00	7,704.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
Graneros									
7,982.7	0.00	0.00	7,738.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
Two Wells									
8,000.0	0.00	0.00	7,755.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
8,073.7	0.00	0.00	7,829.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
Paguete									
8,098.7	0.00	0.00	7,854.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
Cubero									
8,100.0	0.00	0.00	7,855.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
8,123.7	0.00	0.00	7,879.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
Lower Cubero									
8,196.7	0.00	0.00	7,952.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
Encinal									
8,200.0	0.00	0.00	7,955.3	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
8,206.7	0.00	0.00	7,962.0	-1,099.5	-908.0	1,426.0	0.00	0.00	0.00
SJ 28-7 220G 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
Shape										
SJ 28-7 220G ICP	- plan hits target	0.00	0.00	4,900.0	-1,099.5	-908.0	2,054,641.33	578,465.10	36° 38' 46.943 N	107° 33' 57.114 W
- Circle (radius 50.0)										
SJ 28-7 220G PCP	- plan hits target	0.00	0.00	7,962.0	-1,099.5	-908.0	2,054,641.30	578,465.13	36° 38' 46.943 N	107° 33' 57.114 W
- Circle (radius 50.0)										

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
320.0	320.0	SC	9-5/8	12-1/4
5,144.7	4,900.0	ICP	7	8-3/4



Scientific Drilling Planning Report



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well SJ 28-7 #220G
Company:	ConocoPhillips	TVD Reference:	RKB @ 6820.0ft (AWS 711)
Project:	SAN JUAN BASIN	MD Reference:	RKB @ 6820.0ft (AWS 711)
Site:	SEC 22-T28N-R7W	North Reference:	True
Well:	SJ 28-7 #220G	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,349.3	1,319.0	Nacimiento		0.00		
2,768.4	2,647.0	Ojo Alamo		0.00		
2,871.0	2,743.0	Kirtland		0.00		
3,203.4	3,054.0	Fruitland		0.00		
3,683.2	3,503.0	Pictured Cliffs		0.00		
3,770.8	3,585.0	Lewis		0.00		
4,668.7	4,429.0	Chacra		0.00		
5,265.7	5,021.0	Upper Cliff House		0.00		
5,351.7	5,107.0	Cliffhouse		0.00		
5,510.7	5,266.0	Menefee		0.00		
5,906.7	5,662.0	Point Lookout		0.00		
7,138.7	6,894.0	Gallup		0.00		
7,877.7	7,633.0	Greenhorn		0.00		
7,948.7	7,704.0	Graneros		0.00		
7,982.7	7,738.0	Two Wells		0.00		
8,073.7	7,829.0	Paguate		0.00		
8,098.7	7,854.0	Cubero		0.00		
8,123.7	7,879.0	Lower Cubero		0.00		
8,196.7	7,952.0	Encinal		0.00		