

RECEIVED

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

OCT 04 2011

Sundry Notices and Reports on Wells

Farmington Field Office
Bureau of Land Management**AMENDED**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

Surface: Unit E (SW/NW), 1691' FNL & 1066' FWL, Section 28, T27N, R7W, NMPM

5. Lease Number
SF-0786406. If Indian, All. or
Tribe Name7. Unit Agreement Name
SAN JUAN 28-7 UNIT8. Well Name & Number
SAN JUAN 28-7 UNIT 217M9. API Well No.
30-039-3070310. Field and Pool
BLANCO MV / BASIN DK11. County and State
Rio Arriba, 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**

ConocoPhillips Company requests permission to deepen the Intermediate casing set depth from the approved APD footage of **3100'(MD) to 4100'(MD)** w/ +/- 219' of displacement for reasons concerning anti-collision. COP also requests permission to add **23# 7" casing from 3850' and below, w/ J-55** in addition to the APD approved of **20# from 3850' and above, w/ J-55**. Casing and cement volumes have been adjusted. Attached is the revised Project Proposal, the Directional Drill Plan and plot.

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

Signed Marie E. JaramilloTitle Staff Regulatory TechnicianDate 10/03/11

(This space for Federal or State Office use)

APPROVED BY Shea C. Vally Title PE Assist.Date 10/5/11

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

Hold C104

for Directional Survey
and "As Drilled" plat

**BLM'S APPROVAL OR ACCEPTANCE OF THIS
ACTION DOES NOT RELIEVE THE LESSEE AND
OPERATOR FROM OBTAINING ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS**

NMOCD *AV***CONDITIONS OF APPROVAL**

Adhere to previously issued stipulations

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 217M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8082		AFE \$: 1,527,937.40	
Field Name: SAN JUAN		Rig: Aztec Rig 673	State: NM	County: RIO ARRIBA	API #: 3003930703
Geologist:	Phone:	Geophysicist:	Phone:		
Geoscientist:	Phone:	Prod. Engineer:	Phone:		
Res. Engineer: McKee, Cory J	Phone: +1 505-326-9826	Proj. Field Lead:	Phone:		
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				

Location: Surface		Datum Code: NAD 27		Straight Hole	
Latitude: 36.546562	Longitude: -107.585344	X:	Y:	Section: 28	Range: 007W
Footage X: 1066 FWL	Footage Y: 1691 FNL	Elevation: 6581	(FT)	Township: 027N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 6593 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
					BHT
Remarks					
Surface Casing	200	6393		☐	12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.
OJO ALAMO	2098	4495		☐	
KIRTLAND	2248	4345		☐	
FRUITLAND	2608	3985		☐	Possible Gas
PICTURED CLIFFS	2908	3685		☐	
LEWIS	3000	3593		☐	
HUERFANITO BENTONITE	3384	3209		☐	
CHACRA	3816	2777		☐	
Intermediate Casing	4100	2493		☐	8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 924 cuft. Circulate cement to surface.
MASSIVE CLIFF HOUSE	4615	1978		☐	150 Gas
MENEFEE	4630	1963		☐	
POINT LOOKOUT	5188	1405		☐	
MANCOS	5550	1043		☐	
UPPER GALLUP	6347	246		☐	
GREENHORN	7138	-545		☐	
GRANEROS	7199	-606		☐	
TWO WELLS	7251	-658		☐	1700 Gas
UPPER CUBERO	7353	-760		☐	
LOWER CUBERO	7378	-785		☐	
ENCINAL	7448	-855		☐	
Total Depth	7475	-882		☐	6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing. Cement w/ 479 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-7 UNIT 217M

DEVELOPMENT

Logging Program:

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

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

GR/CBL and OH logs at TD over minimum footages.

Mudlog Mancos to TD and mudlogger will call TD.

Weatherford cuttings Mancos to Dakota.

Est bottom perf ~20' above the est TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips SJB

San Juan Basin - New Mexico West Wells

San Juan 28 Wells

SJ 28-7 #217M

Wellbore #1

Plan: Plan #1

Standard Planning Report - Geographic

29 September, 2011

ConocoPhillips or its affiliates

Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #217M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6596.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6596 0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #217M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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 28 Wells		
Site Position:		Northing:	2,042,566.26 ft
From:	Lat/Long	Easting:	563,690.29 ft
Position Uncertainty:	15.0 ft	Slot Radius:	"
		Latitude:	36° 36' 47.901 N
		Longitude:	107° 36' 58.757 W
		Grid Convergence:	0.13 °

Well	SJ 28-7 #217M		
Well Position	+N/-S	0.0 ft	Northing: 2,018,290.74 ft
	+E/-W	0.0 ft	Easting: 572,844.97 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 32' 47.619 N
		Longitude:	107° 35' 7.232 W
		Ground Level:	6,581.0 ft

Wellbore	Wellbore #1		
Magnetics:	Model Name	Sample Date	Declination
	BGGM2011	4/11/2011	(°)
			9.82
			(°)
			63.34
			(nT)
			50,651

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			45.00

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	45.00	300.0	0.0	0.0	0.00	0.00	0.00	45.00	
550.0	5.00	45.00	549.7	7.7	7.7	2.00	2.00	0.00	45.00	
2,864.1	5.00	45.00	2,855.0	150.3	150.3	0.00	0.00	0.00	0.00	
3,030.8	0.00	45.00	3,021.5	155.5	155.5	3.00	-3.00	0.00	180.00	
4,109.3	0.00	45.00	4,100.0	155.5	155.5	0.00	0.00	0.00	45.00	
7,484.3	0.00	45.00	7,475.0	155.5	155.5	0.00	0.00	0.00	45.00	

ConocoPhillips or its affiliates
Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #217M
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6596.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6596.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #217M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	2,018,290.74	572,844.97	36° 32' 47.619 N	107° 35' 7.232 W	
100.0	0.00	45.00	100.0	0.0	0.0	2,018,290.74	572,844.97	36° 32' 47.619 N	107° 35' 7.232 W	
200.0	0.00	45.00	200.0	0.0	0.0	2,018,290.74	572,844.97	36° 32' 47.619 N	107° 35' 7.232 W	
Surface Casing										
230.0	0.00	45.00	230.0	0.0	0.0	2,018,290.74	572,844.97	36° 32' 47.619 N	107° 35' 7.232 W	
9-5/8"										
300.0	0.00	45.00	300.0	0.0	0.0	2,018,290.74	572,844.97	36° 32' 47.619 N	107° 35' 7.232 W	
400.0	2.00	45.00	400.0	1.2	1.2	2,018,291.98	572,846.20	36° 32' 47.631 N	107° 35' 7.217 W	
500.0	4.00	45.00	499.8	4.9	4.9	2,018,295.69	572,849.89	36° 32' 47.668 N	107° 35' 7.172 W	
550.0	5.00	45.00	549.7	7.7	7.7	2,018,298.47	572,852.66	36° 32' 47.695 N	107° 35' 7.138 W	
600.0	5.00	45.00	599.5	10.8	10.8	2,018,301.56	572,855.73	36° 32' 47.726 N	107° 35' 7.100 W	
700.0	5.00	45.00	699.1	17.0	17.0	2,018,307.73	572,861.88	36° 32' 47.787 N	107° 35' 7.024 W	
800.0	5.00	45.00	798.7	23.1	23.1	2,018,313.91	572,868.03	36° 32' 47.848 N	107° 35' 6.949 W	
900.0	5.00	45.00	898.4	29.3	29.3	2,018,320.09	572,874.17	36° 32' 47.909 N	107° 35' 6.873 W	
1,000.0	5.00	45.00	998.0	35.4	35.4	2,018,326.27	572,880.32	36° 32' 47.969 N	107° 35' 6.798 W	
1,100.0	5.00	45.00	1,097.6	41.6	41.6	2,018,332.45	572,886.47	36° 32' 48.030 N	107° 35' 6.722 W	
1,200.0	5.00	45.00	1,197.2	47.8	47.8	2,018,338.63	572,892.61	36° 32' 48.091 N	107° 35' 6.647 W	
1,300.0	5.00	45.00	1,296.8	53.9	53.9	2,018,344.80	572,898.76	36° 32' 48.152 N	107° 35' 6.571 W	
1,400.0	5.00	45.00	1,396.4	60.1	60.1	2,018,350.98	572,904.91	36° 32' 48.213 N	107° 35' 6.496 W	
1,500.0	5.00	45.00	1,496.1	66.3	66.3	2,018,357.16	572,911.05	36° 32' 48.274 N	107° 35' 6.420 W	
1,600.0	5.00	45.00	1,595.7	72.4	72.4	2,018,363.34	572,917.20	36° 32' 48.335 N	107° 35' 6.345 W	
1,700.0	5.00	45.00	1,695.3	78.6	78.6	2,018,369.52	572,923.35	36° 32' 48.396 N	107° 35' 6.269 W	
1,800.0	5.00	45.00	1,794.9	84.7	84.7	2,018,375.69	572,929.49	36° 32' 48.457 N	107° 35' 6.193 W	
1,900.0	5.00	45.00	1,894.5	90.9	90.9	2,018,381.87	572,935.64	36° 32' 48.518 N	107° 35' 6.118 W	
2,000.0	5.00	45.00	1,994.2	97.1	97.1	2,018,388.05	572,941.78	36° 32' 48.579 N	107° 35' 6.042 W	
2,100.0	5.00	45.00	2,093.8	103.2	103.2	2,018,394.23	572,947.93	36° 32' 48.640 N	107° 35' 5.967 W	
2,104.2	5.00	45.00	2,098.0	103.5	103.5	2,018,394.49	572,948.19	36° 32' 48.642 N	107° 35' 5.964 W	
OJO ALAMO										
2,200.0	5.00	45.00	2,193.4	109.4	109.4	2,018,400.41	572,954.08	36° 32' 48.701 N	107° 35' 5.891 W	
2,254.8	5.00	45.00	2,248.0	112.8	112.8	2,018,403.79	572,957.45	36° 32' 48.734 N	107° 35' 5.850 W	
KIRTLAND										
2,300.0	5.00	45.00	2,293.0	115.6	115.6	2,018,406.59	572,960.22	36° 32' 48.762 N	107° 35' 5.816 W	
2,400.0	5.00	45.00	2,392.6	121.7	121.7	2,018,412.76	572,966.37	36° 32' 48.823 N	107° 35' 5.740 W	
2,500.0	5.00	45.00	2,492.3	127.9	127.9	2,018,418.94	572,972.52	36° 32' 48.884 N	107° 35' 5.665 W	
2,600.0	5.00	45.00	2,591.9	134.0	134.0	2,018,425.12	572,978.66	36° 32' 48.945 N	107° 35' 5.589 W	
2,616.2	5.00	45.00	2,608.0	135.0	135.0	2,018,426.12	572,979.66	36° 32' 48.954 N	107° 35' 5.577 W	
FRUITLAND										
2,700.0	5.00	45.00	2,691.5	140.2	140.2	2,018,431.30	572,984.81	36° 32' 49.005 N	107° 35' 5.514 W	
2,800.0	5.00	45.00	2,791.1	146.4	146.4	2,018,437.48	572,990.96	36° 32' 49.066 N	107° 35' 5.438 W	
2,864.1	5.00	45.00	2,855.0	150.3	150.3	2,018,441.44	572,994.90	36° 32' 49.105 N	107° 35' 5.390 W	
2,900.0	3.92	45.00	2,890.8	152.3	152.3	2,018,443.42	572,996.87	36° 32' 49.125 N	107° 35' 5.366 W	
2,917.3	3.41	45.00	2,908.0	153.1	153.1	2,018,444.20	572,997.64	36° 32' 49.133 N	107° 35' 5.356 W	
PICTURED CLIFFS										
3,000.0	0.92	45.00	2,990.7	155.3	155.3	2,018,446.41	572,999.85	36° 32' 49.155 N	107° 35' 5.329 W	
3,009.3	0.64	45.00	3,000.0	155.4	155.4	2,018,446.51	572,999.94	36° 32' 49.155 N	107° 35' 5.328 W	
LEWIS										
3,030.8	0.00	45.00	3,021.5	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,100.0	0.00	45.00	3,090.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,109.3	0.00	45.00	3,100.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
Intermediate Casing										
3,200.0	0.00	45.00	3,190.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,300.0	0.00	45.00	3,290.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	

ConocoPhillips or its affiliates

Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #217M
Company:	ConocoPhillips SJBW	TVD Reference:	WELL @ 6596.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6596.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #217M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
3,393.3	0.00	45.00	3,384.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
HUERFANITO BENTONITE										
3,400.0	0.00	45.00	3,390.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,500.0	0.00	45.00	3,490.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,600.0	0.00	45.00	3,590.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,700.0	0.00	45.00	3,690.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,800.0	0.00	45.00	3,790.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,825.3	0.00	45.00	3,816.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
CHACRA										
3,900.0	0.00	45.00	3,890.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,000.0	0.00	45.00	3,990.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,100.0	0.00	45.00	4,090.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,109.3	0.00	45.00	4,100.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
7"										
4,200.0	0.00	45.00	4,190.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,300.0	0.00	45.00	4,290.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,400.0	0.00	45.00	4,390.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,500.0	0.00	45.00	4,490.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,600.0	0.00	45.00	4,590.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,624.3	0.00	45.00	4,615.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
MASSIVE CLIFF HOUSE										
4,639.3	0.00	45.00	4,630.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
MENESEE										
4,700.0	0.00	45.00	4,690.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,800.0	0.00	45.00	4,790.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,900.0	0.00	45.00	4,890.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,000.0	0.00	45.00	4,990.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,100.0	0.00	45.00	5,090.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,197.3	0.00	45.00	5,188.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
POINT LOOKOUT										
5,200.0	0.00	45.00	5,190.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,300.0	0.00	45.00	5,290.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,400.0	0.00	45.00	5,390.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,500.0	0.00	45.00	5,490.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,559.3	0.00	45.00	5,550.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
MANCOS										
5,600.0	0.00	45.00	5,590.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,700.0	0.00	45.00	5,690.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,800.0	0.00	45.00	5,790.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,900.0	0.00	45.00	5,890.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,000.0	0.00	45.00	5,990.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,100.0	0.00	45.00	6,090.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,200.0	0.00	45.00	6,190.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,300.0	0.00	45.00	6,290.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,356.3	0.00	45.00	6,347.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
UPPER GALLUP										
6,400.0	0.00	45.00	6,390.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,500.0	0.00	45.00	6,490.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,600.0	0.00	45.00	6,590.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,700.0	0.00	45.00	6,690.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,800.0	0.00	45.00	6,790.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,900.0	0.00	45.00	6,890.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
7,000.0	0.00	45.00	6,990.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	

ConocoPhillips or its affiliates

Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #217M
Company:	ConocoPhillips SJB	TVD.Reference:	WELL @ 6596.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6596.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #217M	Survey/Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
7,100.0	0.00	45.00	7,090.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
7,147.3	0.00	45.00	7,138.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
GREENHORN										
7,200.0	0.00	45.00	7,190.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
7,208.3	0.00	45.00	7,199.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
GRANEROS										
7,260.3	0.00	45.00	7,251.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
TWO WELLS										
7,300.0	0.00	45.00	7,290.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
7,362.3	0.00	45.00	7,353.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
UPPER CUBERO										
7,387.3	0.00	45.00	7,378.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
LOWER CUBERO										
7,400.0	0.00	45.00	7,390.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
7,457.3	0.00	45.00	7,448.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
ENCINAL										
7,483.3	0.00	45.00	7,474.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4-1/2"										
7,484.3	0.00	45.00	7,475.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
Total Depth										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name			Casing Diameter (")	Hole Diameter (")
230.0	230.0	9-5/8"			9-5/8	12-1/2
4,109.3	4,100.0	7"			7	8-3/4
7,483.3	7,474.0	4-1/2"			4-1/2	6-1/4

ConocoPhillips or its affiliates

Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #217M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6596.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6596.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #217M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,624.3	4,615.0	MASSIVE CLIFF HOUSE				
7,208.3	7,199.0	GRANEROS				
7,457.3	7,448.0	ENCINAL				
2,104.2	2,098.0	OJO ALAMO				
7,147.3	7,138.0	GREENHORN				
5,559.3	5,550.0	MANCOS				
5,197.3	5,188.0	POINT LOOKOUT				
7,260.3	7,251.0	TWO WELLS				
4,639.3	4,630.0	MENEFEE				
3,009.3	3,000.0	LEWIS				
7,362.3	7,353.0	UPPER CUBERO				
3,109.3	3,100.0	Intermediate Casing				
7,387.3	7,378.0	LOWER CUBERO				
3,393.3	3,384.0	HUERFANITO BENTONITE				
6,356.3	6,347.0	UPPER GALLUP				
7,484.3	7,475.0	Total Depth				
2,616.2	2,608.0	FRUITLAND				
200.0	200.0	Surface Casing				
2,917.3	2,908.0	PICTURED CLIFFS				
3,825.3	3,816.0	CHACRA				
2,254.8	2,248.0	KIRTLAND				

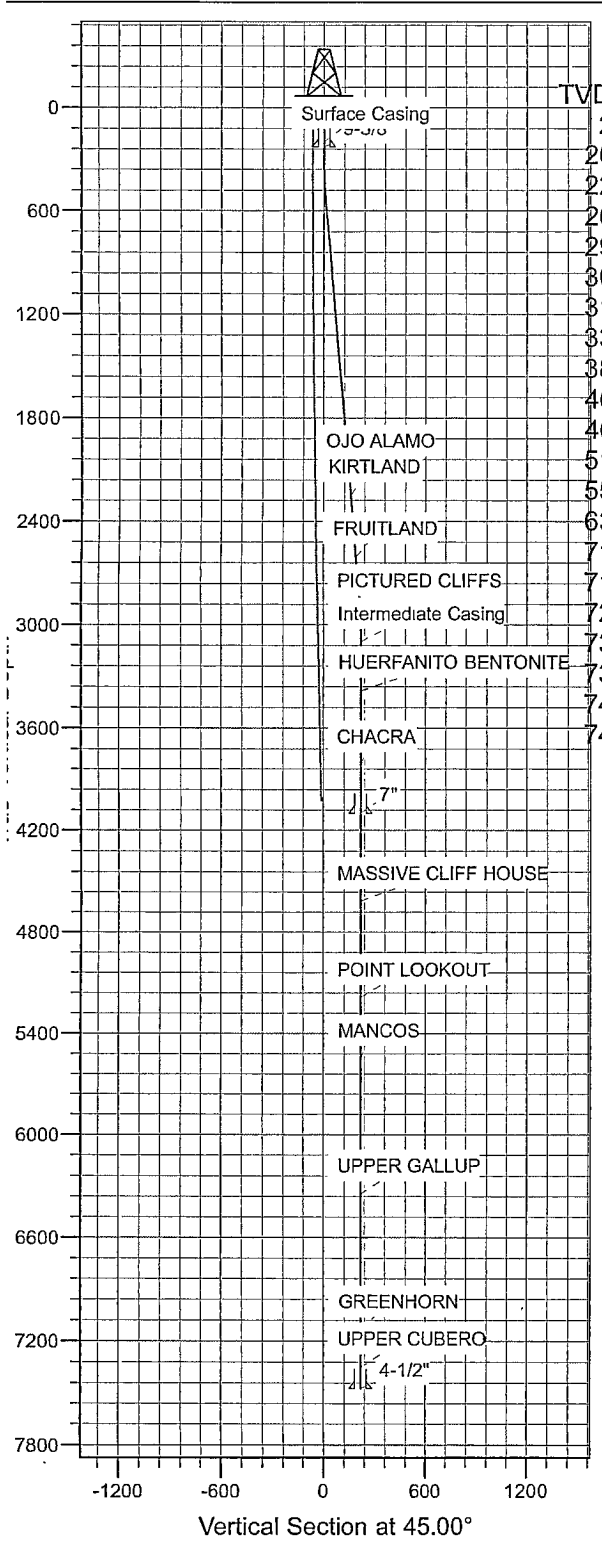
ELL @ 6596.0ft (Original Well Elev)
Ground Elevation 6581.0
Reference Lat: 36° 32' 47.619 N
Reference Long: 107° 35' 7.232 W

Project: San Juan Basin - New Mexico West V
Site: San Juan 28 Wells
Well: SJ 28-7 #217M
Wellbore: Wellbore #1
Design: Plan #1



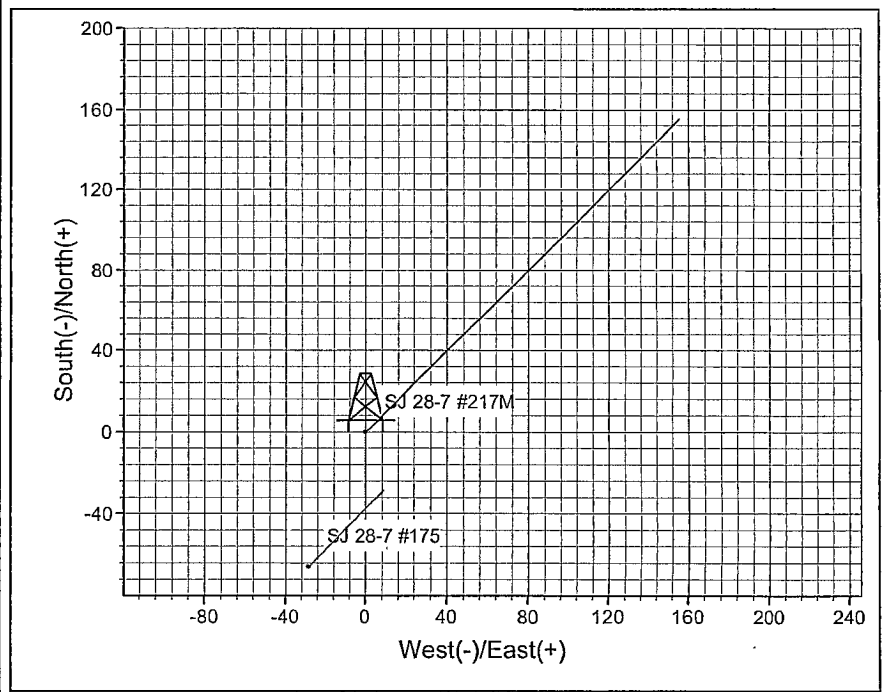
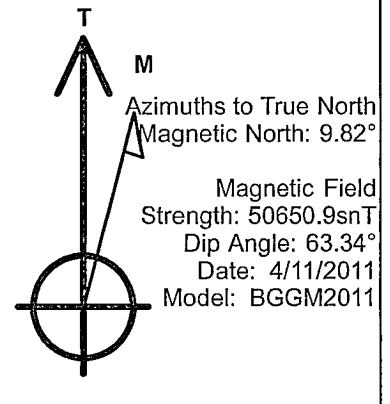
SECTION DETAILS

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	300.0	0.00	45.00	300.0	0.0	0.0	0.00	45.00	0.0	
3	550.0	5.00	45.00	549.7	7.7	7.7	2.00	45.00	10.9	
4	2864.1	5.00	45.00	2855.0	150.3	150.3	0.00	0.00	212.6	
5	3030.8	0.00	45.00	3021.5	155.5	155.5	3.00	180.00	219.9	
6	4109.3	0.00	45.00	4100.0	155.5	155.5	0.00	45.00	219.9	
7	7484.3	0.00	45.00	7475.0	155.5	155.5	0.00	45.00	219.9	



FORMATION TOP DETAILS

TVDP	Path	MDPath	Formation
200.0	200.0		Surface Casing
2098.0	2104.2		OJO ALAMO
2248.0	2254.8		KIRTLAND
2608.0	2616.2		FRUITLAND
2908.0	2917.3		ICTURED CLIFFS
3000.0	3009.3		LEWIS
3100.0	3109.3		Intermediate Casing
3384.0	3393.3		HUERFANITO BENTONITE
3816.0	3825.3		CHACRA
4615.0	4624.3		MASSIVE CLIFF HOUSE
4630.0	4639.3		MENEFEE
5188.0	5197.3		POINT LOOKOUT
5550.0	5559.3		MANCOS
6347.0	6356.3		UPPER GALLUP
7138.0	7147.3		GREENHORN
7199.0	7208.3		GRANEROS
7251.0	7260.3		TWO WELLS
7353.0	7362.3		UPPER CUBERO
7378.0	7387.3		LOWER CUBERO
7448.0	7457.3		ENCINAL
7475.0	7484.3		Total Depth



**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

RECEIVED**SEP 30 2011**

Sundry Notices and Reports on Wells

Farmington Field Office
Bureau of Land Management1. 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

Unit E (SWNW), 1691' FNL & 1066' FWL, Section 28, T27N, R7W, NMPM

5. Lease Number
SF-0786406. If Indian, All. or
Tribe Name7. Unit Agreement Name
San Juan 28-7 Unit8. Well Name & Number
San Juan 28-7 Unit 217M9. API Well No.
30-039-3070310. Field and Pool
Blanco MV / Basin DK11. County and State
Rio Arriba, 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☐ Recompletion☐ Plugging☐ Casing Repair☐ Altering Casing☒ Change of Plans☐ New Construction☐ Non-Routine Fracturing☐ Water Shut off☐ Conversion to Injection☐ Other -**13. Describe Proposed or Completed Operations**

ConocoPhillips Company requests permission to deepen the Intermediate casing set depth from the approved APD footage of 3100' (MD) to 4100' (MD) for reasons concerning anti-collision. Casing and cement volumes have been adjusted. Attached is the revised Project Proposal and the Direction Drill Plan and plot.

14. I hereby certify that the foregoing is true and correct.Signed Crystal Tafoya Crystal TafoyaTitle Staff Regulatory TechnicianDate 9/30/2011

(This space for Federal or State Office use)

APPROVED BY Shirley C. Valdez Title PE Assist.Date 10/4/11

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

Hold C104

for Directional Survey
and "As Drilled" plot

**BLM'S APPROVAL OR ACCEPTANCE OF THIS
ACTION DOES NOT RELIEVE THE LESSEE AND
OPERATOR FROM OBTAINING ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS**

NMOCD**CONDITIONS OF APPROVAL**

Adhere to previously issued stipulations

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 217M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8082				AFE \$: 1,527,937.40	
Field Name: SAN JUAN		Rig: Aztec Rig 673		State: NM	County: RIO ARRIBA		API #: 3003930703
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Straight Hole:							
Latitude: 36.546562		Longitude: -107.585344		X:	Y:	Section: 28	Range: 007W
Footage X: 1066 FWL		Footage Y: 1691 FNL		Elevation: 6581 (FT)		Township: 027N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6593 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6393		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.
OJO ALAMO	2098	4495		☐			
KIRTLAND	2248	4345		☐			
FRUITLAND	2608	3985		☐			Possible Gas
PICTURED CLIFFS	2908	3685		☐			
LEWIS	3000	3593		☐			
HUERFANITO BENTONITE	3384	3209		☐			
CHACRA	3816	2777		☐			
Intermediate Casing	4100	2493		☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 924 cuft. Circulate cement to surface.
MASSIVE CLIFF HOUSE	4615	1978		☐	150		Gas
MENEFEE	4630	1963		☐			
POINT LOOKOUT	5188	1405		☐			
MANCOS	5550	1043		☐			
UPPER GALLUP	6347	246		☐			
GREENHORN	7138	-545		☐			
GRANEROS	7199	-606		☐			
TWO WELLS	7251	-658		☐	1700		Gas
UPPER CUBERO	7353	-760		☐			
LOWER CUBERO	7378	-785		☐			
ENCINAL	7448	-855		☐			
Total Depth	7475	-882		☐			6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing. Cement w/ 479 cuft. Circulate cement a minimum of 100' inside the previous casing string.
Reference Wells:							
Reference Type	Well Name		Comments				

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-7 UNIT 217M

DEVELOPMENT

Logging Program:

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

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

GR/CBL and OH logs at TD over minimum footages.

Mudlog Mancos to TD and mudlogger will call TD.

Weatherford cuttings Mancos to Dakota.

Est bottom perf ~20' above the est TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips SJB

San Juan Basin - New Mexico West Wells

San Juan 28 Wells

SJ 28-7 #217M

Wellbore #1

Plan: Plan #1

Standard Planning Report - Geographic

29 September, 2011

ConocoPhillips or its affiliates

Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #217M
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6596 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6596 0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #217M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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 28 Wells		
Site Position:		Northing:	2,042,566.26 ft
From:	Lat/Long	Easting:	563,690.29 ft
Position Uncertainty:	15 0 ft	Slot Radius:	"
		Latitude:	36° 36' 47 901 N
		Longitude:	107° 36' 58.757 W
		Grid Convergence:	0.13 °

Well	SJ 28-7 #217M		
Well Position	+N-S	0 0 ft	Northing: 2,018,290.74 ft
	+E-W	0 0 ft	Easting: 572,844.97 ft
Position Uncertainty	0 0 ft	Wellhead Elevation:	ft
		Latitude:	36° 32' 47.619 N
		Longitude:	107° 35' 7.232 W
		Ground Level:	6,581.0 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2011	4/11/2011	9.82
			Dip Angle (°) 63 34
			Field Strength (nT) 50,651

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)
	0.0	0 0	0 0
			Direction (°) 45 00

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	
300.0	0.00	45.00	300.0	0.0	0.0	0.00	0.00	0.00	45.00	
550.0	5.00	45.00	549.7	7.7	7.7	2.00	2.00	0.00	45.00	
2,864.1	5.00	45.00	2,855.0	150.3	150.3	0.00	0.00	0.00	0.00	
3,030.8	0.00	45.00	3,021.5	155.5	155.5	3.00	-3.00	0.00	180.00	
4,109.3	0.00	45.00	4,100.0	155.5	155.5	0.00	0.00	0.00	45.00	
7,484.3	0.00	45.00	7,475.0	155.5	155.5	0.00	0.00	0.00	45.00	

ConocoPhillips or its affiliates

Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #217M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6596.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6596.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #217M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	2,018,290.74	572,844.97	36° 32' 47.619 N	107° 35' 7.232 W	
100.0	0.00	45.00	100.0	0.0	0.0	2,018,290.74	572,844.97	36° 32' 47.619 N	107° 35' 7.232 W	
200.0	0.00	45.00	200.0	0.0	0.0	2,018,290.74	572,844.97	36° 32' 47.619 N	107° 35' 7.232 W	
Surface Casing										
230.0	0.00	45.00	230.0	0.0	0.0	2,018,290.74	572,844.97	36° 32' 47.619 N	107° 35' 7.232 W	
9-5/8"										
300.0	0.00	45.00	300.0	0.0	0.0	2,018,290.74	572,844.97	36° 32' 47.619 N	107° 35' 7.232 W	
400.0	2.00	45.00	400.0	1.2	1.2	2,018,291.98	572,846.20	36° 32' 47.631 N	107° 35' 7.217 W	
500.0	4.00	45.00	499.8	4.9	4.9	2,018,295.69	572,849.89	36° 32' 47.668 N	107° 35' 7.172 W	
550.0	5.00	45.00	549.7	7.7	7.7	2,018,298.47	572,852.66	36° 32' 47.695 N	107° 35' 7.138 W	
600.0	5.00	45.00	599.5	10.8	10.8	2,018,301.56	572,855.73	36° 32' 47.726 N	107° 35' 7.100 W	
700.0	5.00	45.00	699.1	17.0	17.0	2,018,307.73	572,861.88	36° 32' 47.787 N	107° 35' 7.024 W	
800.0	5.00	45.00	798.7	23.1	23.1	2,018,313.91	572,868.03	36° 32' 47.848 N	107° 35' 6.949 W	
900.0	5.00	45.00	898.4	29.3	29.3	2,018,320.09	572,874.17	36° 32' 47.909 N	107° 35' 6.873 W	
1,000.0	5.00	45.00	998.0	35.4	35.4	2,018,326.27	572,880.32	36° 32' 47.969 N	107° 35' 6.798 W	
1,100.0	5.00	45.00	1,097.6	41.6	41.6	2,018,332.45	572,886.47	36° 32' 48.030 N	107° 35' 6.722 W	
1,200.0	5.00	45.00	1,197.2	47.8	47.8	2,018,338.63	572,892.61	36° 32' 48.091 N	107° 35' 6.647 W	
1,300.0	5.00	45.00	1,296.8	53.9	53.9	2,018,344.80	572,898.76	36° 32' 48.152 N	107° 35' 6.571 W	
1,400.0	5.00	45.00	1,396.4	60.1	60.1	2,018,350.98	572,904.91	36° 32' 48.213 N	107° 35' 6.496 W	
1,500.0	5.00	45.00	1,496.1	66.3	66.3	2,018,357.16	572,911.05	36° 32' 48.274 N	107° 35' 6.420 W	
1,600.0	5.00	45.00	1,595.7	72.4	72.4	2,018,363.34	572,917.20	36° 32' 48.335 N	107° 35' 6.345 W	
1,700.0	5.00	45.00	1,695.3	78.6	78.6	2,018,369.52	572,923.35	36° 32' 48.396 N	107° 35' 6.269 W	
1,800.0	5.00	45.00	1,794.9	84.7	84.7	2,018,375.69	572,929.49	36° 32' 48.457 N	107° 35' 6.193 W	
1,900.0	5.00	45.00	1,894.5	90.9	90.9	2,018,381.87	572,935.64	36° 32' 48.518 N	107° 35' 6.118 W	
2,000.0	5.00	45.00	1,994.2	97.1	97.1	2,018,388.05	572,941.78	36° 32' 48.579 N	107° 35' 6.042 W	
2,100.0	5.00	45.00	2,093.8	103.2	103.2	2,018,394.23	572,947.93	36° 32' 48.640 N	107° 35' 5.967 W	
2,104.2	5.00	45.00	2,098.0	103.5	103.5	2,018,394.49	572,948.19	36° 32' 48.642 N	107° 35' 5.964 W	
OJO ALAMO										
2,200.0	5.00	45.00	2,193.4	109.4	109.4	2,018,400.41	572,954.08	36° 32' 48.701 N	107° 35' 5.891 W	
2,254.8	5.00	45.00	2,248.0	112.8	112.8	2,018,403.79	572,957.45	36° 32' 48.734 N	107° 35' 5.850 W	
KIRTLAND										
2,300.0	5.00	45.00	2,293.0	115.6	115.6	2,018,406.59	572,960.22	36° 32' 48.762 N	107° 35' 5.816 W	
2,400.0	5.00	45.00	2,392.6	121.7	121.7	2,018,412.76	572,966.37	36° 32' 48.823 N	107° 35' 5.740 W	
2,500.0	5.00	45.00	2,492.3	127.9	127.9	2,018,418.94	572,972.52	36° 32' 48.884 N	107° 35' 5.665 W	
2,600.0	5.00	45.00	2,591.9	134.0	134.0	2,018,425.12	572,978.66	36° 32' 48.945 N	107° 35' 5.589 W	
2,616.2	5.00	45.00	2,608.0	135.0	135.0	2,018,426.12	572,979.66	36° 32' 48.954 N	107° 35' 5.577 W	
FRUITLAND										
2,700.0	5.00	45.00	2,691.5	140.2	140.2	2,018,431.30	572,984.81	36° 32' 49.005 N	107° 35' 5.514 W	
2,800.0	5.00	45.00	2,791.1	146.4	146.4	2,018,437.48	572,990.96	36° 32' 49.066 N	107° 35' 5.438 W	
2,864.1	5.00	45.00	2,855.0	150.3	150.3	2,018,441.44	572,994.90	36° 32' 49.105 N	107° 35' 5.390 W	
2,900.0	3.92	45.00	2,890.8	152.3	152.3	2,018,443.42	572,996.87	36° 32' 49.125 N	107° 35' 5.366 W	
2,917.3	3.41	45.00	2,908.0	153.1	153.1	2,018,444.20	572,997.64	36° 32' 49.133 N	107° 35' 5.356 W	
PICTURED CLIFFS										
3,000.0	0.92	45.00	2,990.7	155.3	155.3	2,018,446.41	572,999.85	36° 32' 49.155 N	107° 35' 5.329 W	
3,009.3	0.64	45.00	3,000.0	155.4	155.4	2,018,446.51	572,999.94	36° 32' 49.155 N	107° 35' 5.328 W	
LEWIS										
3,030.8	0.00	45.00	3,021.5	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,100.0	0.00	45.00	3,090.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,109.3	0.00	45.00	3,100.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
Intermediate Casing										
3,200.0	0.00	45.00	3,190.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,300.0	0.00	45.00	3,290.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	

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Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #217M
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6596.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6596.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #217M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
3,393.3	0.00	45.00	3,384.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
HUERFANITO BENTONITE										
3,400.0	0.00	45.00	3,390.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,500.0	0.00	45.00	3,490.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,600.0	0.00	45.00	3,590.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,700.0	0.00	45.00	3,690.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,800.0	0.00	45.00	3,790.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
3,825.3	0.00	45.00	3,816.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
CHACRA										
3,900.0	0.00	45.00	3,890.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,000.0	0.00	45.00	3,990.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,100.0	0.00	45.00	4,090.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,109.3	0.00	45.00	4,100.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
7"										
4,200.0	0.00	45.00	4,190.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,300.0	0.00	45.00	4,290.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,400.0	0.00	45.00	4,390.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,500.0	0.00	45.00	4,490.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,600.0	0.00	45.00	4,590.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,624.3	0.00	45.00	4,615.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
MASSIVE CLIFF HOUSE										
4,639.3	0.00	45.00	4,630.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
MENEFFEE										
4,700.0	0.00	45.00	4,690.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,800.0	0.00	45.00	4,790.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
4,900.0	0.00	45.00	4,890.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,000.0	0.00	45.00	4,990.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,100.0	0.00	45.00	5,090.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,197.3	0.00	45.00	5,188.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
POINT LOOKOUT										
5,200.0	0.00	45.00	5,190.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,300.0	0.00	45.00	5,290.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,400.0	0.00	45.00	5,390.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,500.0	0.00	45.00	5,490.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,559.3	0.00	45.00	5,550.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
MANCOS										
5,600.0	0.00	45.00	5,590.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,700.0	0.00	45.00	5,690.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,800.0	0.00	45.00	5,790.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
5,900.0	0.00	45.00	5,890.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,000.0	0.00	45.00	5,990.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,100.0	0.00	45.00	6,090.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,200.0	0.00	45.00	6,190.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,300.0	0.00	45.00	6,290.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,356.3	0.00	45.00	6,347.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
UPPER GALLUP										
6,400.0	0.00	45.00	6,390.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,500.0	0.00	45.00	6,490.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,600.0	0.00	45.00	6,590.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,700.0	0.00	45.00	6,690.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,800.0	0.00	45.00	6,790.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
6,900.0	0.00	45.00	6,890.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	
7,000.0	0.00	45.00	6,990.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W	

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Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #217M
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6596.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6596 0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #217M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
7,100.0	0.00	45.00	7,090.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W
7,147.3	0.00	45.00	7,138.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W
GREENHORN									
7,200.0	0.00	45.00	7,190.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W
7,208.3	0.00	45.00	7,199.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W
GRANEROS									
7,260.3	0.00	45.00	7,251.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W
TWO WELLS									
7,300.0	0.00	45.00	7,290.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W
7,362.3	0.00	45.00	7,353.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W
UPPER CUBERO									
7,387.3	0.00	45.00	7,378.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W
LOWER CUBERO									
7,400.0	0.00	45.00	7,390.7	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W
7,457.3	0.00	45.00	7,448.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W
ENCINAL									
7,483.3	0.00	45.00	7,474.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W
4-1/2"									
7,484.3	0.00	45.00	7,475.0	155.5	155.5	2,018,446.59	573,000.02	36° 32' 49.156 N	107° 35' 5.327 W
Total Depth									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
230.0	230.0	9-5/8"	9-5/8	12-1/2	
4,109.3	4,100.0	7"	7	8-3/4	
7,483.3	7,474.0	4-1/2"	4-1/2	6-1/4	

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Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #217M
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6596.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6596.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #217M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,624.3	4,615.0	MASSIVE CLIFF HOUSE				
7,208.3	7,199.0	GRANEROS				
7,457.3	7,448.0	ENCINAL				
2,104.2	2,098.0	OJO ALAMO				
7,147.3	7,138.0	GREENHORN				
5,559.3	5,550.0	MANCOS				
5,197.3	5,188.0	POINT LOOKOUT				
7,260.3	7,251.0	TWO WELLS				
4,639.3	4,630.0	MENEFEE				
3,009.3	3,000.0	LEWIS				
7,362.3	7,353.0	UPPER CUBERO				
3,109.3	3,100.0	Intermediate Casing				
7,387.3	7,378.0	LOWER CUBERO				
3,393.3	3,384.0	HUERFANITO BENTONITE				
6,356.3	6,347.0	UPPER GALLUP				
7,484.3	7,475.0	Total Depth				
2,616.2	2,608.0	FRUITLAND				
200.0	200.0	Surface Casing				
2,917.3	2,908.0	PICTURED CLIFFS				
3,825.3	3,816.0	CHACRA				
2,254.8	2,248.0	KIRTLAND				

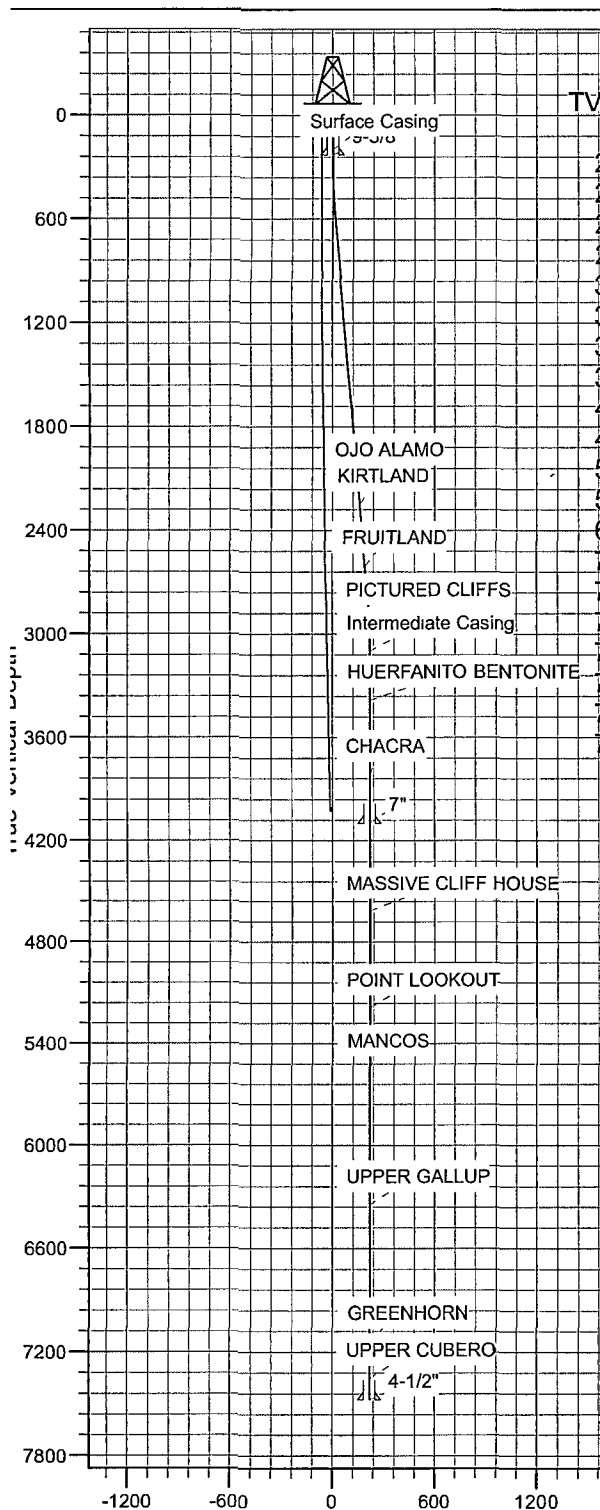
Well @ 6596.0ft (Original Well Elev)
 Ground Elevation 6581.0
 Reference Lat: 36° 32' 47.619 N
 Reference Long: 107° 35' 7.232 W

Project: San Juan Basin - New Mexico West V
 Site: San Juan 28 Wells
 Well: SJ 28-7 #217M
 Wellbore: Wellbore #1
 Design: Plan #1



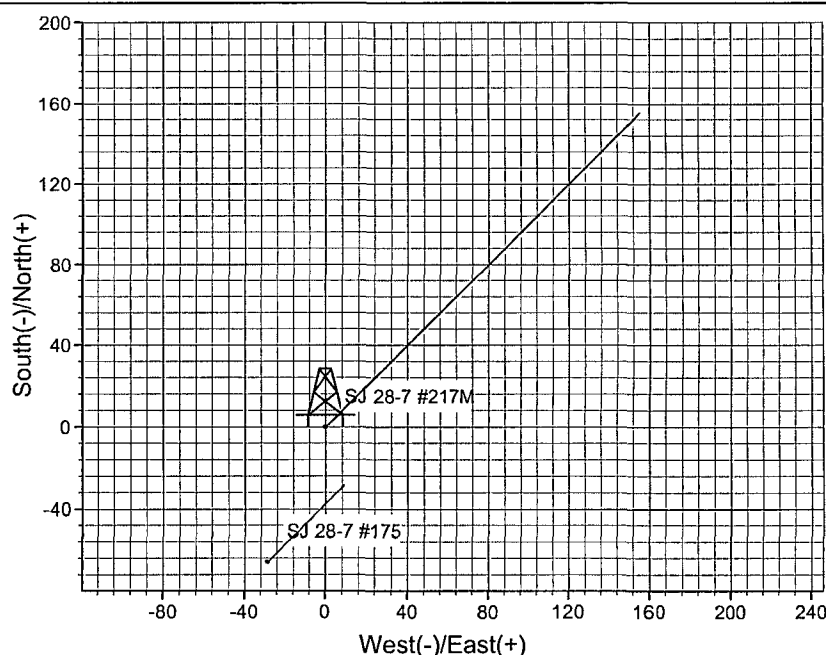
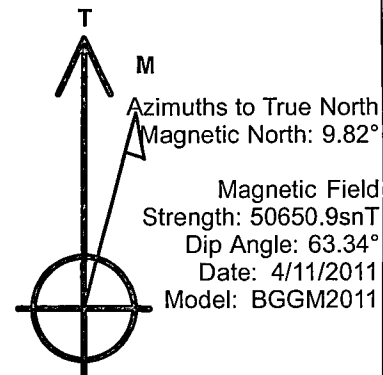
SECTION DETAILS

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	300.0	0.00	45.00	300.0	0.0	0.0	0.00	45.00	0.0	
3	550.0	5.00	45.00	549.7	7.7	7.7	2.00	45.00	10.9	
4	2864.1	5.00	45.00	2855.0	150.3	150.3	0.00	0.00	212.6	
5	3030.8	0.00	45.00	3021.5	155.5	155.5	3.00	180.00	219.9	
6	4109.3	0.00	45.00	4100.0	155.5	155.5	0.00	45.00	219.9	
7	7484.3	0.00	45.00	7475.0	155.5	155.5	0.00	45.00	219.9	



FORMATION TOP DETAILS

TVD	Path MD	Formation
200.0	200.0	Surface Casing
2098.0	2104.2	OJO ALAMO
2248.0	2254.8	KIRTLAND
2608.0	2616.2	FRUITLAND
2908.0	2917.3	PICTURED CLIFFS
3000.0	3009.3	LEWIS
3100.0	3109.3	Intermediate Casing
3384.0	3393.3	HUERFANITO BENTONITE
3816.0	3825.3	CHACRA
4615.0	4624.3	MASSIVE CLIFF HOUSE
4630.0	4639.3	MENEFEE
5188.0	5197.3	POINT LOOKOUT
5550.0	5559.3	MANCOS
6347.0	6356.3	UPPER GALLUP
7138.0	7147.3	GREENHORN
7199.0	7208.3	GRANEROS
7251.0	7260.3	TWO WELLS
7353.0	7362.3	UPPER CUBERO
7378.0	7387.3	LOWER CUBERO
7448.0	7457.3	ENCINAL
7475.0	7484.3	Total Depth



Vertical Section at 45.00°