

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 30 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number SF-078995 Unit Reporting Number NMNM-78421A-MV	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips Company	7. Unit Agreement Name San Juan 31-6 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name RCVD SEP 30 '10 OIL CONS. DIV. DIST. 3	
4. Location of Well Surf: Unit K(NESW), 1472' FSL & 1491' FWL BHL: Unit N(SSEW), 1305' FSL & 2525' FWL Surf: Latitude: 36.852837° N (NAD83) Longitude: 107.508172° W BHL: Latitude: 36.852352° N (NAD83) Longitude: 107.504635° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Unit K, Sec. 31, T31N, R6W Unit N, Sec. 31, T31N, R6W API # 30-039- 30995	
14. Distance in Miles from Nearest Town 58.6 miles from Bloomfield, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1305'		
16. Acres in Lease 1920.00	17. Acres Assigned to Well 320.00 W/2 (MV/DK)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 71.6' from the SJ 31-6 Unit 225 (FC)		
19. Proposed Depth 7740' This section is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6211' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
23. Proposed Casing and Cementing Program See Operations Plan attached	Hold C104 for Directional Survey and "As Drilled" plat	
24. Authorized by: <i>Dollie L. Busse</i> Dollie L. Busse (Staff Regulatory Tech)	Date 8-30-10	

PERMIT NO. APPROVAL NOTIFY AZTEC OCD 24 HRS PRIOR TO CASING & CEMENT
APPROVED BY *D. Manke* TITLE AFM DATE 9/28/2010

Archaeological Report attached A gas recovery unit may or may not be used on this location.
Threatened and Endangered Species Report attached
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any statement or presentation as to any matter within its jurisdiction, if such statement or presentation is false, fictitious or fraudulent.
Example Master Plan Type 3 Bond Numbers ES-0048 and ES-0085
BLM'S APPROVAL OR ACCEPTANCE OF THIS OPERATOR DOES NOT BELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER PERMIT OR REQUIREMENT FOR DRILLING OPERATIONS ON FEDERAL AND INDIAN LANDS

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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Submit to Appropriate District Office
Farmington Field Office
Bureau of Land Management

Form C-102
Revised October 12, 2005
State Lease - 7 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30995	² Pool Code 71599/72319	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 31328	⁵ Property Name SAN JUAN 31-6 UNIT	⁶ Well Number 50N
⁷ OGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6211

¹⁰ SURFACE LOCATION

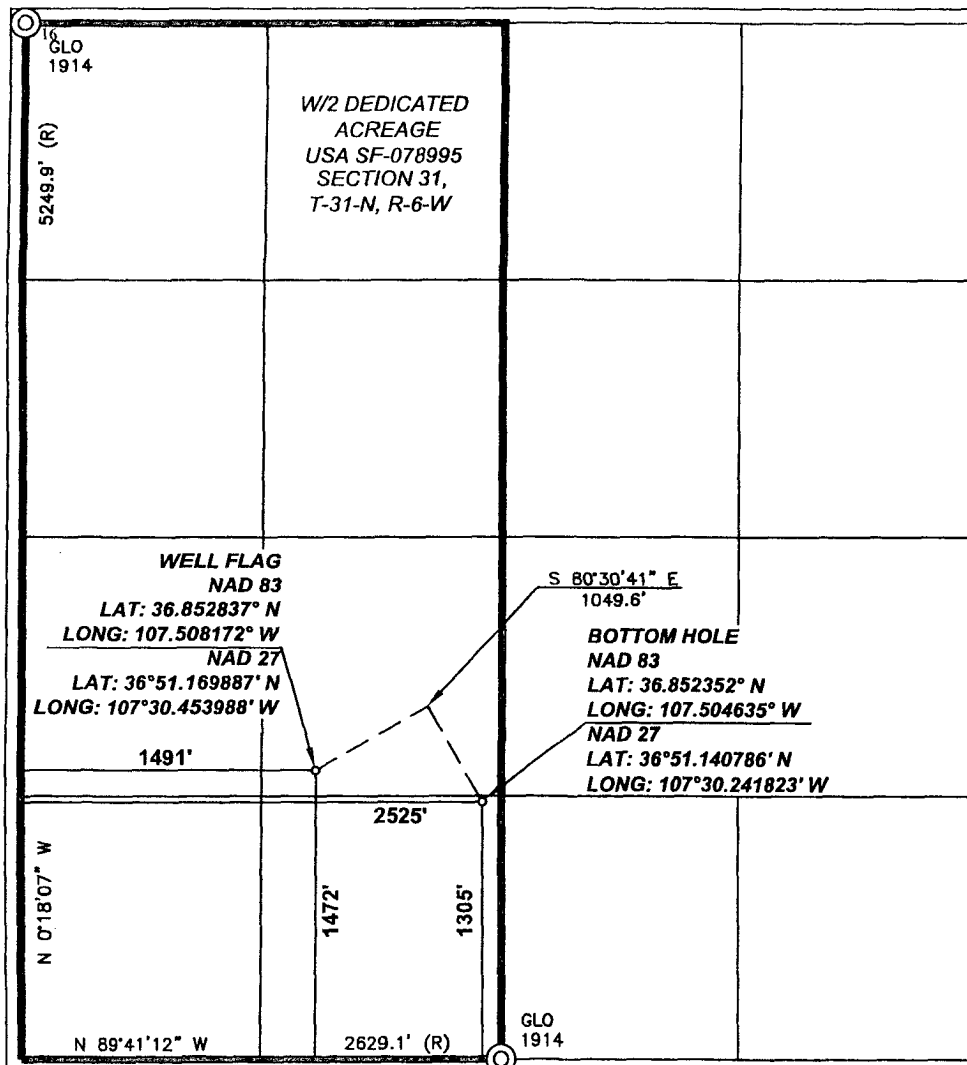
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	31	31-N	6-W		1472	SOUTH	1491	WEST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	31	31-N	6-W		1305	SOUTH	2525	WEST	RIO ARRIBA

¹² Dedicated Acres 320.00 W/2	¹³ Joint or Infill MV/DK	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Tracey N. Monroe
Signature

Tracey N. Monroe
Printed Name

Staff Reg Tech
Title and E-mail Address

7/29/09
Date

7/29/09
Date

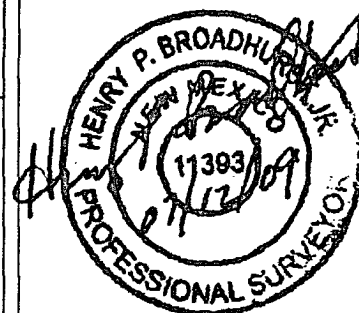
Date

¹⁸ SURVEYOR CERTIFICATION

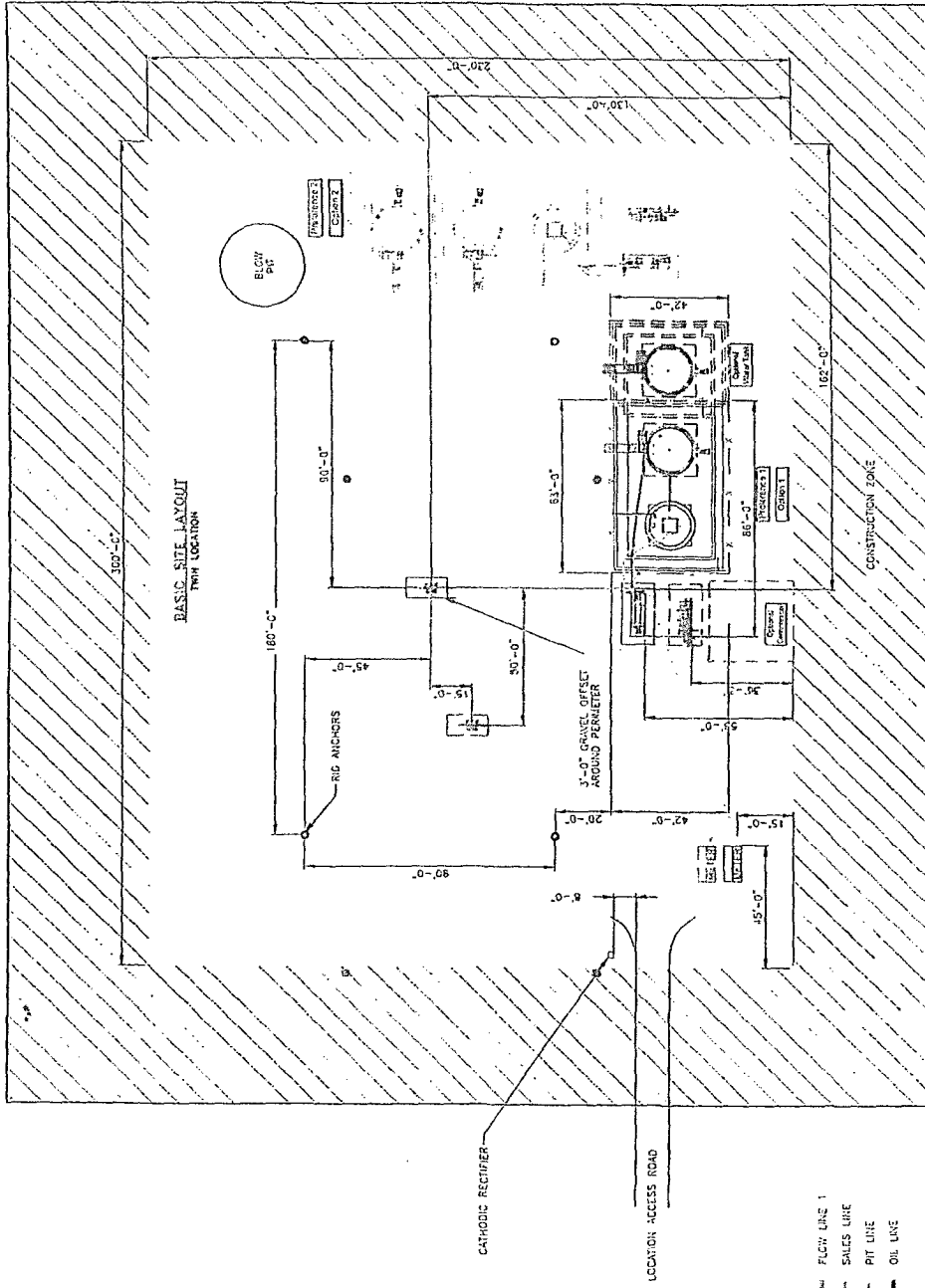
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 6/29/09

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393



SHEET 1 OF 5

SEE SHEET 1 OF 5 FOR FURTHER DETAILS.
ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

CONOCOPhillips										SAN JUAN BUSINESS UNIT									
CONOCOPhillips										SAN JUAN BUSINESS UNIT									
HIGH PRESSURE GASES										FACILITY DIAGRAM - SITE LAYOUT									
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PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 50N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9121				AFE \$: 966,033.06	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface		Datum Code: NAD 27				Directional	
Latitude: 36.852831	Longitude: -107.507566	X:	Y:	Section: 31	Range: 006W		
Footage X: 1491 FWL	Footage Y: 1472 FSL	Elevation: 6211	(FT)	Township: 031N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional	
Latitude: 36.852346	Longitude: -107.504029	X:	Y:	Section: 31	Range: 006W		
Footage X: 2525 FWL	Footage Y: 1305 FSL	Elevation:	(FT)	Township: 031N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6227 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6027		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	848	5379		☐			
OJO ALAMO	2144	4083		☐			
KIRTLAND	2265	3962		☐			
FRUITLAND	2695	3532		☐	161		Possible Gas
PICTURED CLIFFS	3215	3012		☐	1061		
LEWIS	3235	2992		☐			
Intermediate Casing	3335	2892		☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 799 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3873	2354		☐			
CHACRA	4269	1958		☐			
UPPER CLIFF HOUSE	4783	1444		☐			Gas
MASSIVE CLIFF HOUSE	5076	1151		☐	645		Gas
MENEFEE	5125	1102		☐			
POINT LOOKOUT	5393	834		☐			
MANCOS	5787	440		☐			
UPPER GALLUP	6692	-465		☐			
GREENHORN	7427	-1200		☐			
GRANEROS	7479	-1252		☐			
TWO WELLS	7597	-1370		☐	3206		Gas
PAGUATE	7605	-1378		☐			
UPPER CUBERO	7614	-1387		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 50N

DEVELOPMENT

LOWER CUBERO	7651	-1424	☐	
ENCINAL	7719	-1492	☐	
Total Depth	7740	-1513	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 599 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	SAN JUAN 31-6 50	

Logging Program:

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

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

mud log ~100' above grhn to td. 35' above td. mud logger well call td.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 31-6 #50N
Company:	ConocoPhillips SJB	TVD Reference:	HP KB @ 6227.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	HP KB @ 6227.0ft (Original Well Elev)
Site:	San Juan 31 Wells	North Reference:	True
Well:	SJ 31-6 #50N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,905.9	6,692.0	GALLUP		0.00		
2,287.5	2,144.0	OJO ALAMO		0.00		
4,086.9	3,873.0	HEURFANITO BENTONITE		0.00		
7,810.9	7,597.0	TWO WELLS		0.00		
4,996.9	4,783.0	UPPER CLIFF HOUSE		0.00		
5,338.9	5,125.0	MENEFEE		0.00		
5,606.9	5,393.0	POINT LOOKOUT		0.00		
2,896.2	2,695.0	FRUITLAND		0.00		
7,818.9	7,605.0	PAGUATE		0.00		
7,692.9	7,479.0	GRANEROS		0.00		
7,932.9	7,719.0	ENCINAL		0.00		
3,428.8	3,215.0	PICTURED CLIFFS		0.00		
855.0	848.0	NACIMIENTO		0.00		
7,640.9	7,427.0	GREENHORN		0.00		
6,000.9	5,787.0	MANCOS		0.00		
4,482.9	4,269.0	CHACRA		0.00		
5,289.9	5,076.0	MASSIVE CLIFF HOUSE		0.00		
3,448.8	3,235.0	LEWIS		0.00		
7,827.9	7,614.0	UPPER CUBERO		0.00		
2,422.5	2,265.0	KIRTLAND		0.00		
7,864.9	7,651.0	LOWER CUBERO		0.00		

REFERENCE INFORMATION

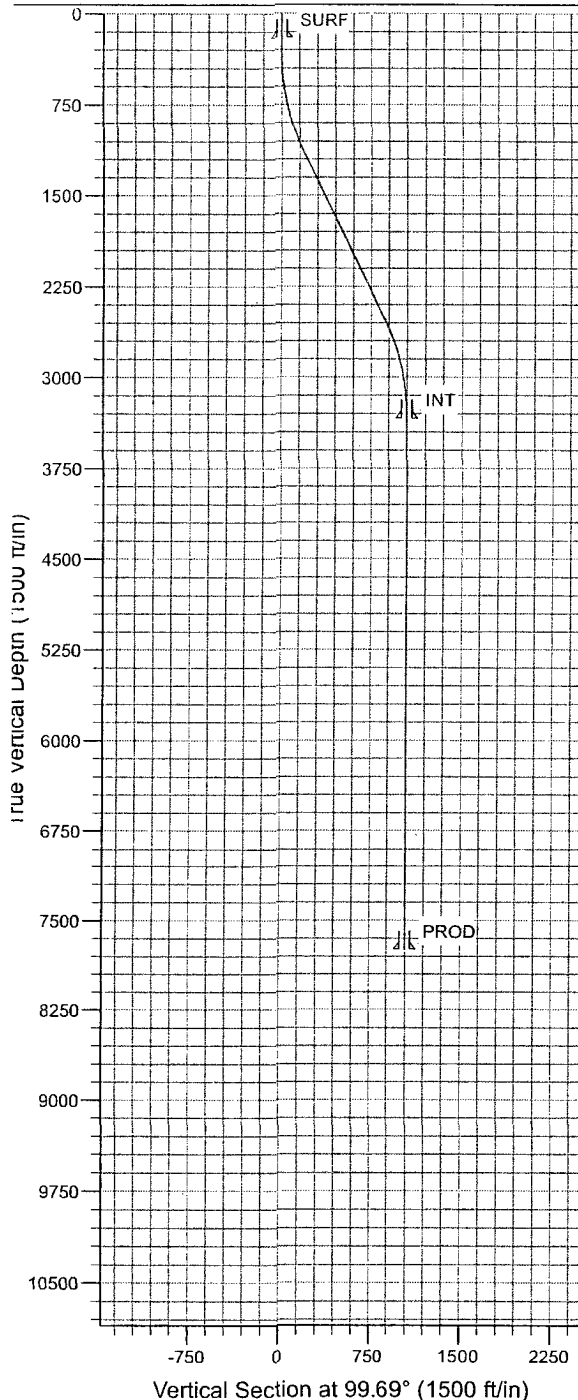
HP KB @ 6227.0ft (Original Well Elev)
Ground Elevation 6211.0
Reference Lat: 36° 51' 10.193 N
Reference Long: 107° 30' 27.238 W

Project: San Juan Basin - New Mexico Wells
Site: San Juan 31 Wells
Well: SJ 31-6 #50N
Wellbore: Principal Wellbore
Design: Plan #1



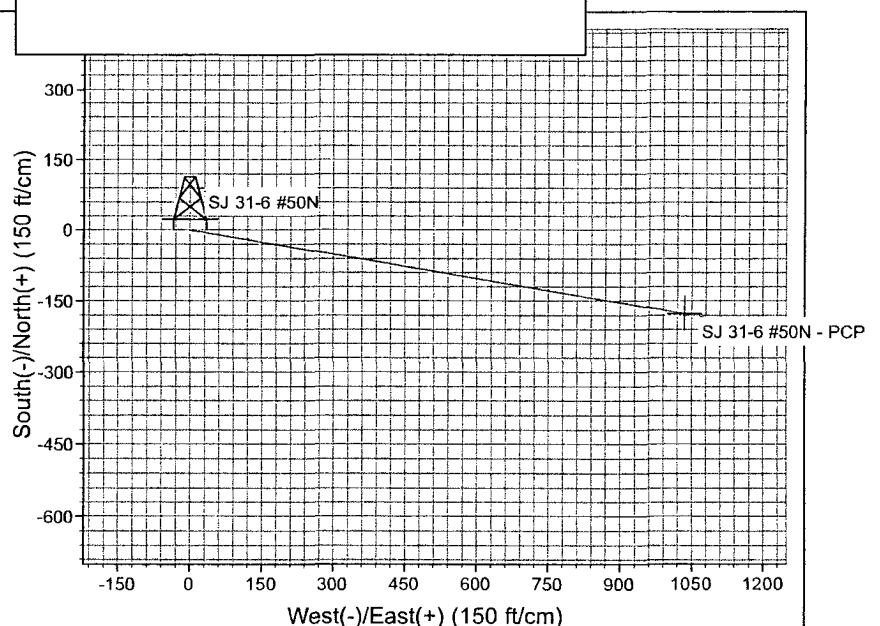
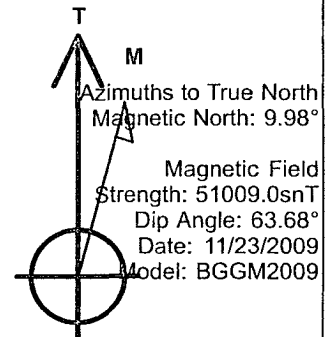
SECTION DETAILS

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	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1197.2	26.32	99.69	1166.7	-33.3	195.1	3.00	99.69	197.9	
4	2671.6	26.32	99.69	2488.3	-143.3	839.5	0.00	0.00	851.6	
5	3548.9	0.00	0.00	3335.0	-176.6	1034.6	3.00	180.00	1049.5	SJ 31-6 #50N - ICP
6	7953.9	0.00	0.00	7740.0	-176.6	1034.6	0.00	0.00	1049.5	SJ 31-6 #50N - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
848.0	855.0	NACIMIENTO
2144.0	2287.5	OJO ALAMO
2265.0	2422.5	KIRTLAND
2695.0	2896.2	FRUITLAND
3215.0	3428.8	PICTURED CLIFFS
3235.0	3448.8	LEWIS
3873.0	4086.9	HEURFANITO BENTON
4269.0	4482.9	CHACRA
4783.0	4996.9	UPPER CLIFF HOUSE
5076.0	5289.9	MASSIVE CLIFF HOUSE
5125.0	5338.9	MENEFEE
5393.0	5606.9	POINT LOOKOUT
5787.0	6000.9	MANCOS
6692.0	6905.9	GALLUP
7427.0	7640.9	GREENHORN
7479.0	7692.9	GRANEROS
7597.0	7810.9	TWO WELLS
7605.0	7818.9	PAGUATE
7614.0	7827.9	UPPER CUBERO
7651.0	7864.9	LOWER CUBERO
7719.0	7932.9	ENCINAL



CONOCOPHILLIPS COMPANY

SAN JUAN 31-6 UNIT #50N

1472' FSL, 1491' FWL

SECTION 31, T-31-N, R-6-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.852837°N LONG.: 107.508172°W

ELEV.: 6211 NAVD88

NO NEW ACCESS

FROM THE INTERSECTION OF HWY. 64 & HWY. 550 IN BLOOMFIELD, N.M.:

- GO 37.7 MI. EAST ON HWY. 64 TO MILE POST 102. TURN LEFT ON STATE HWY. 527 (SIMMS MARINA HWY).
- GO 8.0 MI. NORTH ON HWY. 527. TURN RIGHT ONTO ROSA ROAD.
- GO 6.7 MI. NORTHEAST ON ROSA ROAD. TURN LEFT ON C.R. 510.
- GO 5.3 MI. WEST ON MAIN ROAD C.R. 510. TURN RIGHT & GO DOWNHILL.
- GO 0.2 MI. NORTHWEST DOWNHILL. TURN LEFT & HEAD TOWARDS NAVAJO LAKE.
- GO 0.7 MI. WEST. TURN LEFT AT EXISTING WELL SJ 30-6 #225. NEW WELL IS TWINNED HERE.