

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 28 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Farmington Field Office

1a. Type of Work DRILL	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	5. Lease Number SF-079353 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company		7. Unit Agreement Name NMMNM-78424A-MV San Juan 32-8 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name RCVD MAY 11 '10 OIL CONS. DIV. DIST. 3
4. Location of Well Surf: Unit E (SWNW), 1990' FNL & 672' FWL Bottomhole: Unit F (SENW), 2240' FNL & 1785' FWL Surf: Latitude: 36.94244° N (NAD83) Longitude: 107.68691° W Bottomhole: Latitude: 36.94163° N (NAD83) Longitude: 107.68310° W		10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) [] Sec. 33, T32N, R8W API # 30-045- 35140
14. Distance in Miles from Nearest Town 30 miles / Blanco, NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 672'		
16. Acres in Lease 2,161.150	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 479' from San Juan 32-8 Unit 40A (MV)		
19. Proposed Depth 8361'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6755' GL		22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)		Date <u>4/28/2010</u>

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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 to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

Example Master Plan Type 3

Bond Numbers ES-0048 and ES-0085

MAY 13 2010

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

Hold C104
for Directional Survey
and "As Drilled" plat

NMOCD

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

RECEIVED

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. APR 28 2010
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

Bureau of Land Management

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045- 35140		*Pool Code 71599 / 72319	*Pool Name BASIN DAKOTA/BLANCO MESA VERDE
*Property Code 31330	*Property Name SAN JUAN 32-8 UNIT		*Well Number 51
*GRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY		*Elevation 6755'

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
E	33	32N	8W		1990'	NORTH	672'	WEST	SAN JUAN

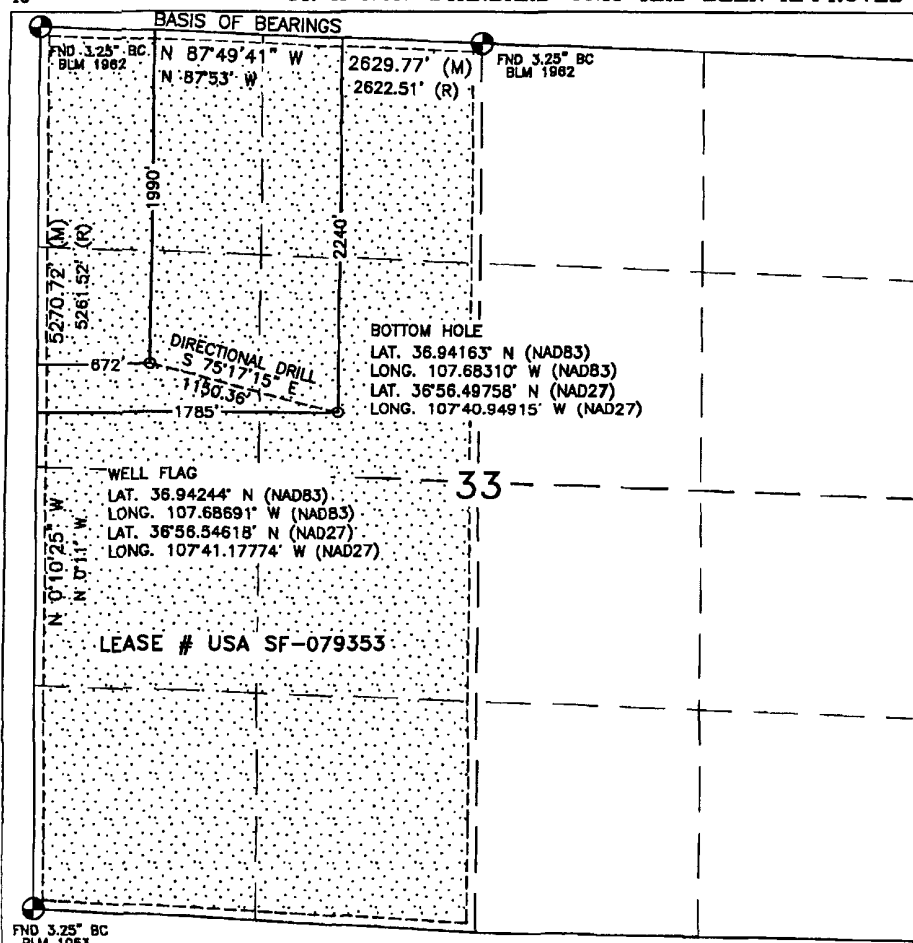
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	33	32N	8W		2240'	NORTH	1785'	WEST	SAN JUAN

¹² Dedicated Acres 320.00 Acres - (W/2)	¹³ Joint or Infill	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

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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 released 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 or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 2/12/10
Signature Date

Crystal Tafoya 2/12/2010
Printed Name

¹⁸ SURVEYOR CERTIFICATION

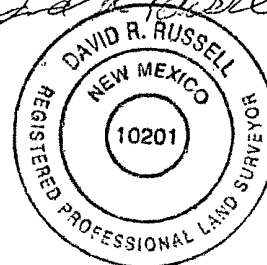
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 11, 2009

Date of Survey

Signature and Seal of Professional Surveyor:

David R. Russell



DAVID RUSSELL

Certificate Number

10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 32-8 UNIT 51

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7434				AFE \$: 1,358,704.70	
Field Name: SAN JUAN		Rig: XXX 2011 Holding Rig #2		State: NM	County: SAN JUAN		API #:
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 Directional							
Latitude: 36.942436	Longitude: -107.686296	X:	Y:	Section: 33		Range: 008W	
Footage X: 672 FWL		Footage Y: 1990 FNL		Elevation: 6755 (FT)	Township: 032N		
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.941626	Longitude: -107.682486	X:	Y:	Section: 33		Range: 008W	
Footage X: 1785 FWL		Footage Y: 2240 FNL		Elevation:	(FT) Township: 032N		
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6770 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6570	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.	
OJO ALAMO	2372	4398	☐				
KIRTLAND	2416	4354	☐				
FRUITLAND	3285	3485	☐			Possible Gas	
PICTURED CLIFFS	3649	3121	☐				
LEWIS	3798	2972	☐				
Intermediate Casing	3898	2872	☐		129	8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 941 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4442	2328	☐				
CHACRA	4856	1914	☐				
MASSIVE CLIFF HOUSE	5639	1131	☐	862		Gas; est. top perf. 5501 (1129)	
MENEFEE	5687	1083	☐				
MASSIVE POINT LOOKOUT	5942	828	☐				
MANCOS	6390	380	☐				
UPPER GALLUP	7325	-555	☐				
GREENHORN	8043	-1273	☐				
GRANEROS	8096	-1326	☐				
TWO WELLS	8200	-1430	☐	3458		Gas	
PAGUATE	8217	-1447	☐				
UPPER CUBERO	8229	-1459	☐				
LOWER CUBERO	8256	-1486	☐				
ENCINAL	8313	-1543	☐			Est. btm perf 8241 (-1571) based on offset wells	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 32-8 UNIT 51

DEVELOPMENT

Total Depth	8361	-1591	☐	236	TD - 53' belows B/ENCN / 6 1/4" hole 4 1/2" 11.6 ppf L-80 LTC. Cement with 607 cuft to overlap a minimum of 100-ft w/ intermediate casing.
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Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

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

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

Estimated bottom perf ~20' above the estimated TD. Mudlog from ~100' above the top of the Gallup to TD. Run GR/Induction/density/neutron from TD to minimum operations footage with GR/induction back to intermediate casing.

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 32-8 #51
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6770 0ft (AWS rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6770 0ft (AWS rig)
Site:	San Juan 32 Wells	North Reference:	True
Well:	SJ 32-8 #51	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
200.0	200.0	9 5/8"	9-5/8	12-1/4	
4,183.0	3,898.0	7"	7	8-3/4	
8,646.0	8,361.0	4 1/2"	4-1/2	6-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,227.0	5,942.0	Massive Point Lookout		0.00		
8,328.0	8,043.0	Greenhorn		0.00		
6,675.0	6,390.0	Mancos		0.00		
2,678.6	2,416.0	Kirtland		0.00		
5,141.0	4,856.0	Chacra		0.00		
2,630.2	2,372.0	Ojo		0.00		
8,381.0	8,096.0	Graneros		0.00		
8,598.0	8,313.0	Encinal		0.00		
3,168.8	2,885.0	Stage Tool		0.00		
8,541.0	8,256.0	Lower Cubero		0.00		
3,570.0	3,285.0	Frutland		0.00		
3,934.0	3,649.0	Pictured Cliffs		0.00		
8,502.0	8,217.0	Paguate		0.00		
5,924.0	5,639.0	Massive Cliffhouse		0.00		
7,610.0	7,325.0	Upper Gallup		0.00		
5,972.0	5,687.0	Menefee		0.00		
4,083.0	3,798.0	Lewis		0.00		
8,485.0	8,200.0	Two Wells		0.00		
8,646.0	8,361.0	Total Depth		0.00		
4,727.0	4,442.0	Huerfano Bentonite		0.00		
8,514.0	8,229.0	Upper Cubero		0.00		

REFERENCE INFORMATION

RKB @ 6770.0ft (AWS rig)
 Ground Elevation 6755.0
 Reference Lat: 36° 56' 32.771 N
 Reference Long: 107° 41' 10.664 W

Project: San Juan Basin - New Mexico Wells

Site: San Juan 32 Wells

Well: SJ 32-8 #51

Wellbore: Principal Wellbore

Design: Plan #1

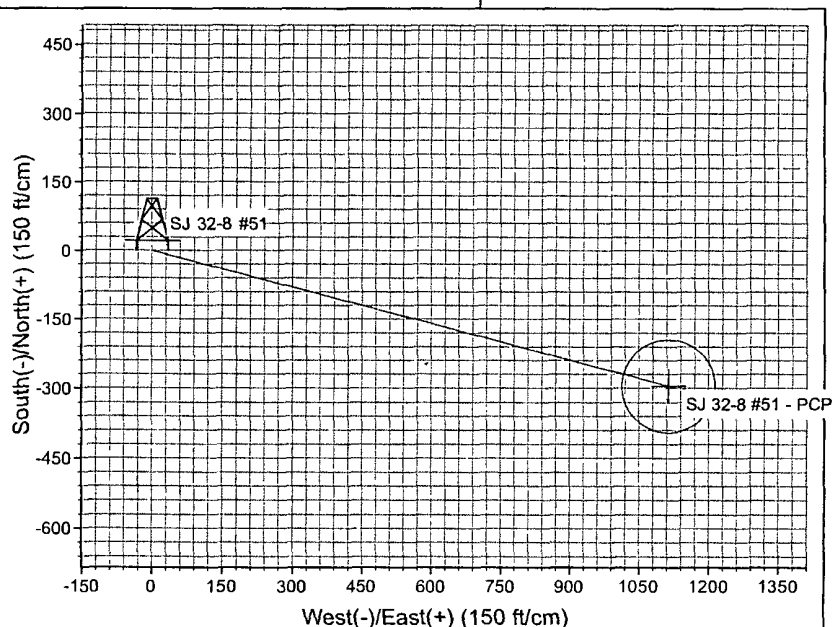
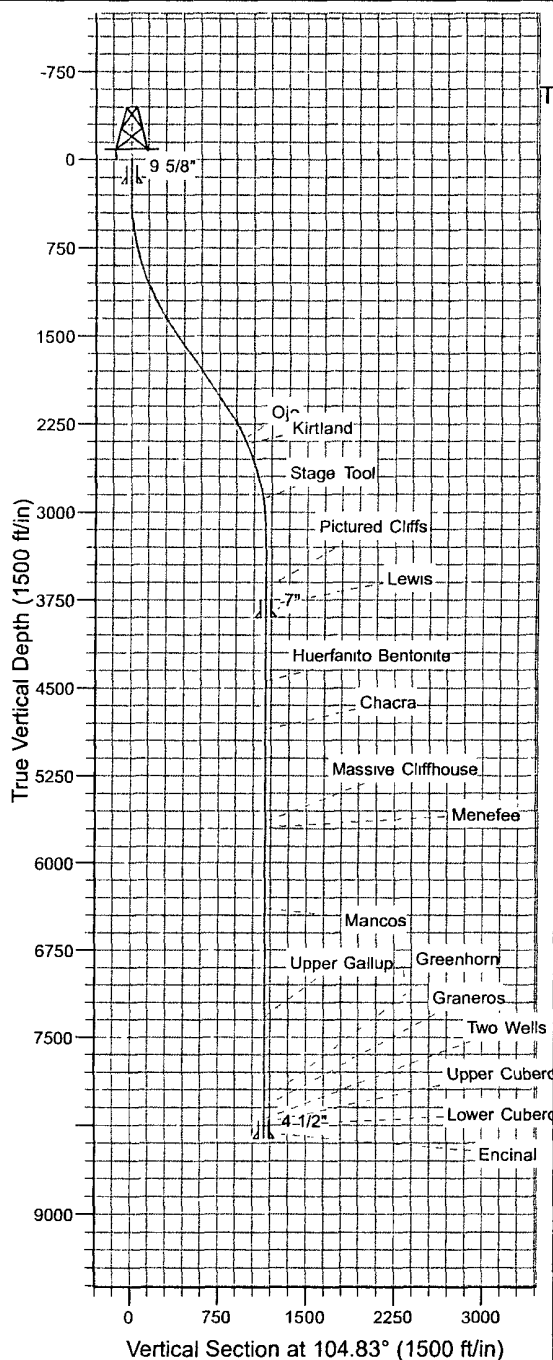
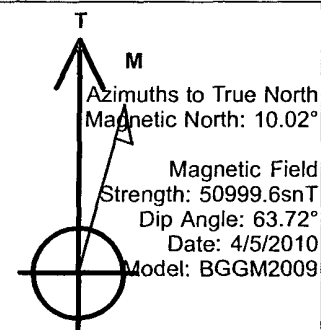


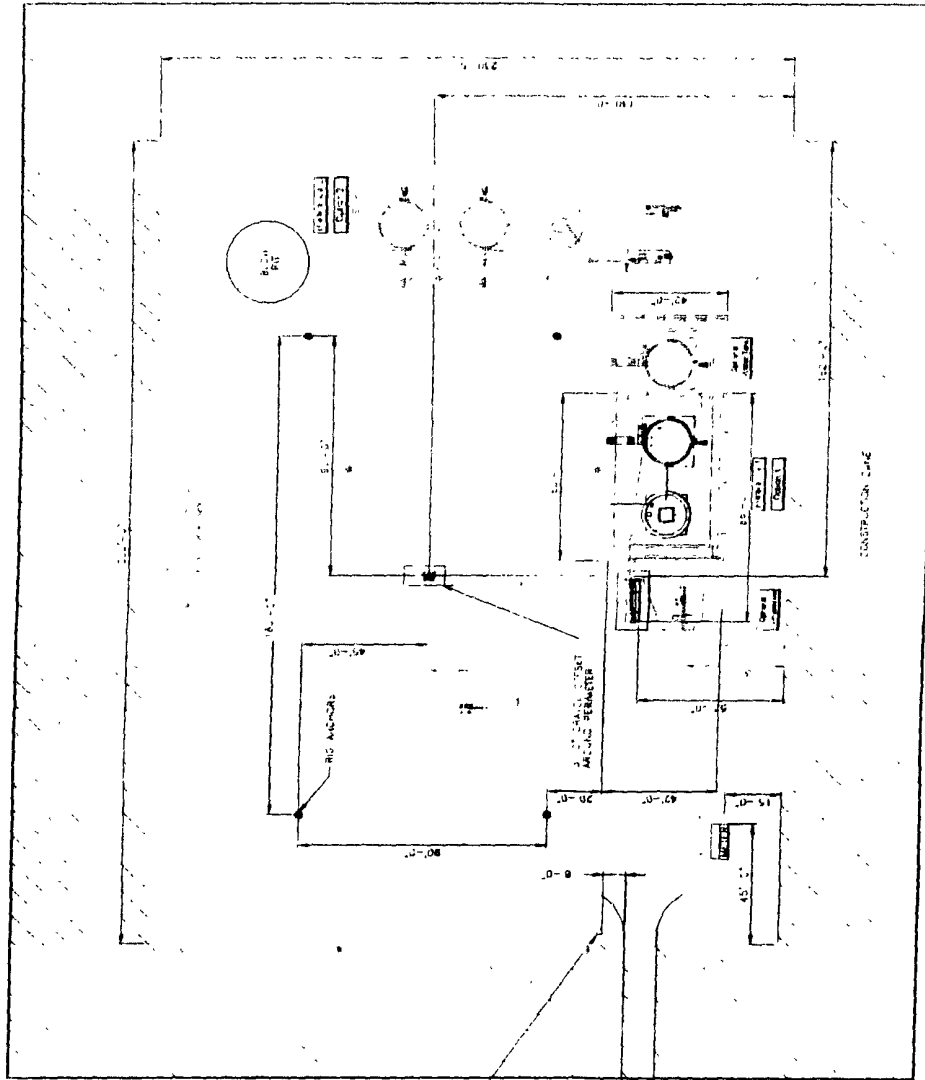
SECTION DETAILS

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	1466.2	34.38	104.83	1398.6	-85.4	322.6	3.00	104.83	333.7	
4	2323.8	34.38	104.83	2106.4	-209.4	790.8	0.00	0.00	818.1	
5	3470.0	0.00	0.00	3185.0	-294.9	1113.4	3.00	180.00	1151.8	SJ 32-8 #51 - ACP
6	4183.0	0.00	0.00	3898.0	-294.9	1113.4	0.00	0.00	1151.8	SJ 32-8 #51 - ICP
7	8646.0	0.00	0.00	8361.0	-294.9	1113.4	0.00	0.00	1151.8	SJ 32-8 #51 - PCP

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2372.0	2630.2	Ojo
2416.0	2678.6	Kirtland
2885.0	3168.8	Stage Tool
3285.0	3570.0	Fruitland
3649.0	3934.0	Pictured Cliffs
3798.0	4083.0	Lewis
4442.0	4727.0	Huerfanto Bentonite
4856.0	5141.0	Chacra
5639.0	5924.0	Massive Cliffhouse
5687.0	5972.0	Menefee
5942.0	6227.0	Massive Point Lookout
6390.0	6675.0	Mancos
7325.0	7610.0	Upper Gallup
8043.0	8328.0	Greenhorn
8096.0	8381.0	Graneros
8200.0	8485.0	Two Wells
8217.0	8502.0	Paguate
8229.0	8514.0	Upper Cubero
8256.0	8541.0	Lower Cubero
8313.0	8598.0	Encinal
8361.0	8646.0	Total Depth





1. CATHODIC PROTECTION
 2. ANODES
 3. CATHODES
 4. LOCATION ACCESS ROAD
 5. 3.0\"/>

ALL DIMENSIONS ARE IN FEET AND INCHES
 ALL DIMENSIONS ARE TO THE CENTERLINE OF THE ROAD

CENCO PHILLIPS		SAN JUAN BUSINESS UNIT		FACILITY NAME - DIE CASTING	
NO.	DESCRIPTION	DATE	BY	REVISION	REVISION
1	1. CATHODIC PROTECTION				
2	2. ANODES				
3	3. CATHODES				
4	4. LOCATION ACCESS ROAD				
5	5. 3.0\"/>				

CONOCOPHILLIPS COMPANY

SAN JUAN 32-8 UNIT #51
1990' FNL & 672' FWL
LOCATED IN THE SW/4 NW/4 OF SECTION 33,
T32N, R8W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE POST OFFICE IN BLANCO, TRAVEL EASTERLY ON HWY 611, 2.4 MILES TO THE INTERSECTION OF HWY 64 AND HWY 511.
- 2) TURN LEFT, AND TRAVEL 25.4' MILES.
- 3) TURN LEFTT, AND TRAVEL 1.0 MILE WHERE ACCESS IS STAKED ON LEFT SIDE OF ROAD.

WELL FLAG LOCATED AT LAT. 36.94244° N, LONG. 107.68691° W, (NAD83)

