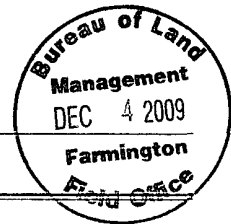


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078739 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe RCVD DEC 14'09
2. Operator ConocoPhillips Company	7. Unit Agreement Name OIL CONS. DIV. DIST. 3 San Juan 30-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number 71P
4. Location of Well Surf: Unit M(SWSW), 715' FSL & 1105' FWL Bottomhole: Unit N(SES), 745' FSL & 2400' FWL Surf: Latitude: 36.792895° N (NAD83) Longitude: 107.349984° W Bottomhole: Latitude: 36.792969° N (NAD83) Longitude: 107.345558° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) N Sec. 22, T30N, R5W API # 30-039- 30872
14. Distance in Miles from Nearest Town 48 miles / Blanco	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 715'	
16. Acres in Lease 2,320.00	17. Acres Assigned to Well 320.00 (W/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 157' from SJ 30-5 Unit 71	
19. Proposed Depth 7889'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6474' 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	
24. Authorized by: Crystal Tafoya Crystal Tafoya (Regulatory Technician)	Date 12/4/2009

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

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 NMB-000015 and NMB-000089

JAN 04 2010

NMOC

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

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

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

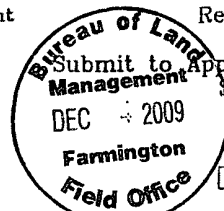
DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005



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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30872		² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 31327	⁵ Property Name SAN JUAN 30 - 5 UNIT		⁶ Well Number 71P
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY		⁹ Elevation 6474'

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
M	22	30-N	5-W		715	SOUTH	1105	WEST	RIO ARRIBA

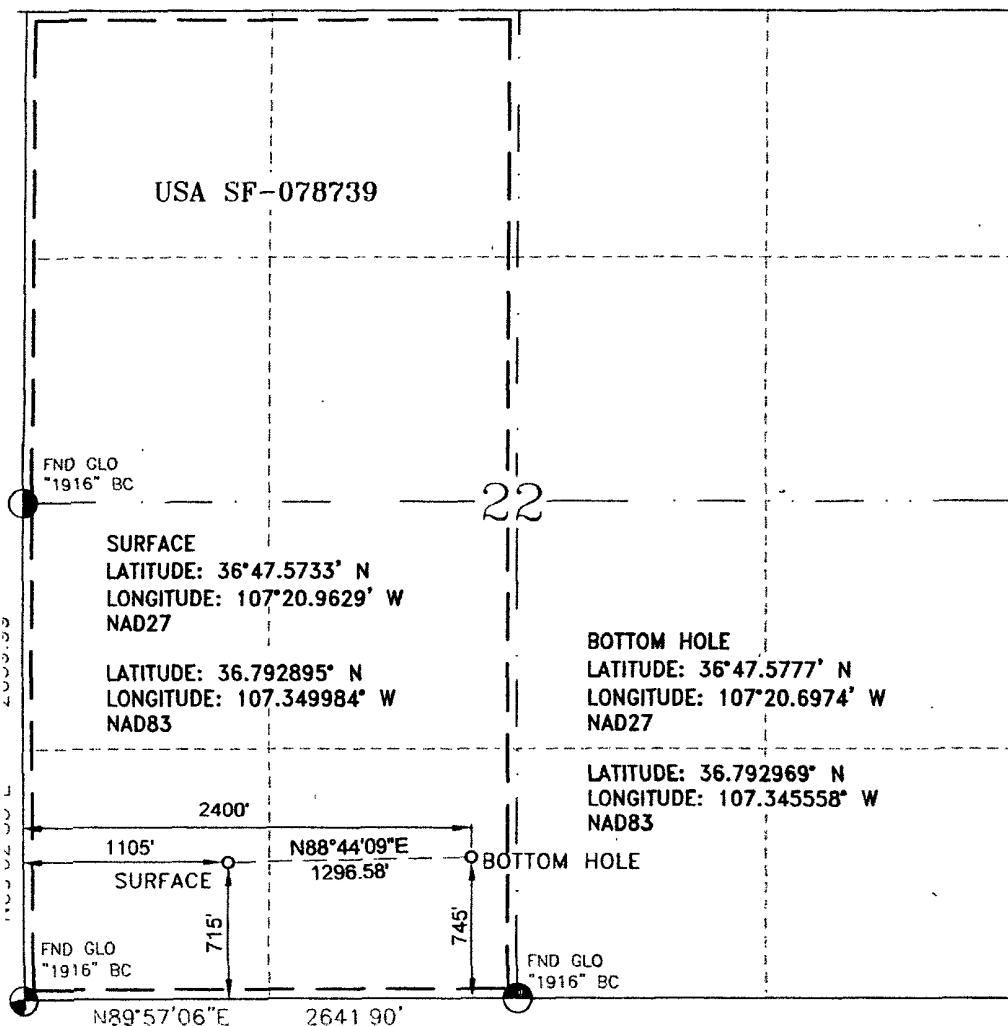
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	22	30-N	5-W		745	SOUTH	2400	WEST	RIO ARRIBA

¹² Dedicated Acres DK 320.00 ACRES W/2 MV 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

16



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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 4/24/09
Signature
Crystal Tafoya 4-24-09
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.

4 - 15703
Date of Survey
Signature of Licensed Professional Surveyor
Allen W. Russell
Certificate Number **15703**

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 71P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8512		AFE \$: 1,873,768.52	
Field Name: SAN JUAN		Rig: H&P Rig 282		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				
Location: Surface Datum Code: NAD 27 Directional					
Latitude: 36.792888	Longitude: -107.349382	X:	Y:	Section: 22	Range: 00SW
Footage X: 1105 FWL	Footage Y: 715 FSL	Elevation: 6474	(FT)	Township: 030N	
Tolerance:					
Location: Bottom Hole Datum Code: NAD 27 Directional					
Latitude: 36.792962	Longitude: -107.344957	X:	Y:	Section: 22	Range: 00SW
Footage X: 2400 FWL	Footage Y: 745 FSL	Elevation:	(FT)	Township: 030N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2010		Completion Date:	
Formation Data: Assume KB = 6488		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	6288	☐		
12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.					
NACIMIENTO	1334	5154	☐		
OJO ALAMO	2537	3951	☐		
KIRTLAND	2696	3792	☐		
FRUITLAND	2748	3740	☐		Possible Gas
PICTURED CLIFFS	3392	3096	☐		
LEWIS	3500	2988	☐		
Intermediate Casing	3650	2838	☐		
8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 888cuft. Circulate cement to surface.					
HUERFANITO BENTONITE	4184	2304	☐		
CHACRA	4500	1988	☐		Est. Top Perf - 4772 (1986)
UPPER CLIFF HOUSE	5263	1225	☐		Gas
MASSIVE CLIFF HOUSE	5342	1146	☐	471	Gas
MENELEE	5382	1106	☐		
POINT LOOKOUT	5601	887	☐		
MANCOS	6022	466	☐		
UPPER GALLUP	6880	-392	☐		
GREENHORN	7602	-1114	☐		
GRANEROS	7654	-1166	☐		
TWO WELLS	7774	-1286	☐	3200	Gas
PAGUATE	7774	-1286	☐		
UPPER CUBERO	7779	-1291	☐		
LOWER CUBERO	7822	-1334	☐		Est. Btm Perf - 8139 (-1381) based on offset wells

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 71P

DEVELOPMENT

ENCINAL	7889	-1401	☐	TD - T/ENCN
Total Depth	7889	-1401	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 577 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 30-5 234	30N 5W 22 NE SW SW
Production	SJ 30-5 94	30N 5W 27 SE NW NE
Production	SJ 30-5 71	30N 5W 22 NE SW SW
Production	SJ 30-5 56	30N 5W 22 NE SW SW

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Cased Hole GR / CBL	
Mudlog from 100' above top of GRHN to TD - mudlogger will call TD.	

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #71P
Company:	ConocoPhillips SJB	TYD Reference:	RKB @ 6489.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6489.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #71P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,555.3	5,263.0	Upper Cliffhouse		0.00		
5,893.3	5,601.0	Point Lookout		0.00		
2,943.6	2,696.0	Kirtland		0.00		
7,172.3	6,880.0	Upper Gallup		0.00		
4,792.3	4,500.0	Chacra		0.00		
8,071.3	7,779.0	Upper Cubero		0.00		
6,314.3	6,022.0	Mancos		0.00		
3,683.5	3,392.0	Pictured Cliffs		0.00		
8,067.3	7,775.0	Paguate		0.00		
5,674.3	5,382.0	Menefee		0.00		
8,114.3	7,822.0	Lower Cubero		0.00		
7,946.3	7,654.0	Graneros		0.00		
5,634.3	5,342.0	Mass Cliffhouse		0.00		
8,181.3	7,889.0	Encinal		0.00		
1,387.3	1,334.0	Nacimiento		0.00		
4,476.3	4,184.0	Huerfano Bentonite		0.00		
2,761.9	2,537.0	Ojo		0.00		
3,002.9	2,748.0	Fruitland		0.00		
8,066.3	7,774.0	Two Wells		0.00		
3,792.2	3,500.0	Lewis		0.00		
7,894.3	7,602.0	Greenhorn		0.00		

REFERENCE INFORMATION

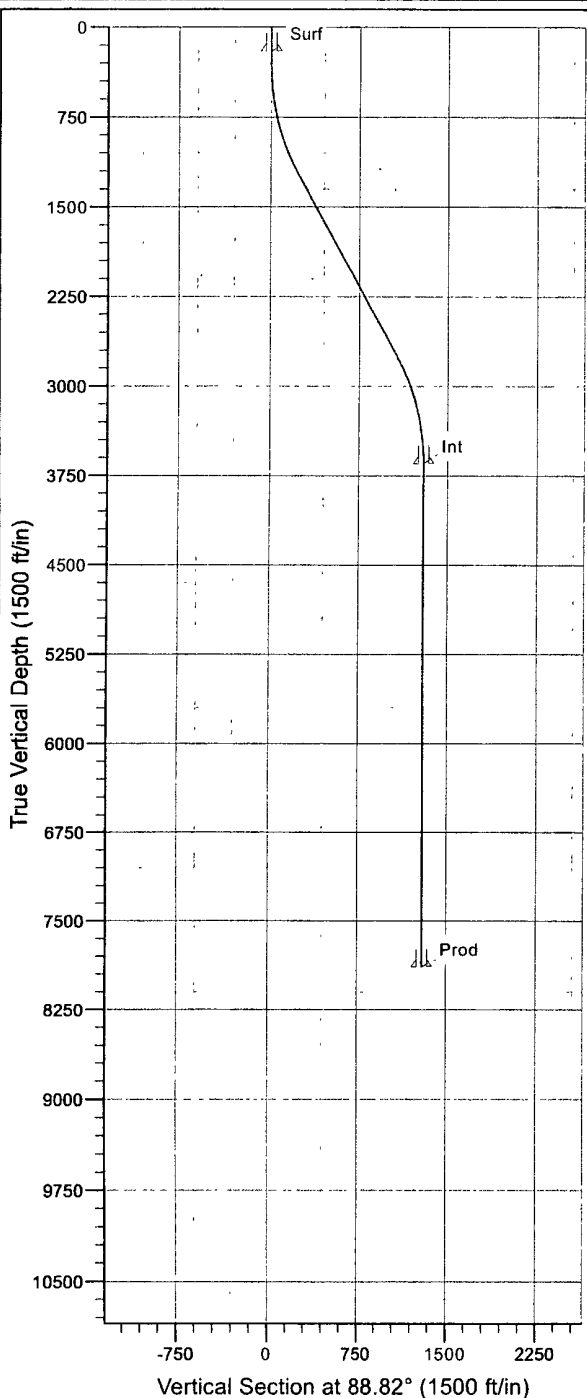
RKB @ 6489.0ft (Original Well Elev)
Ground Elevation 6474.0
Reference Lat: 36° 47' 34.398 N
Reference Long: 107° 20' 57.774 W

Project: San Juan Basin - New Mexico Wells
Site: San Juan 30 Wells
Well: SJ 30-5 #71P
Wellbore: Principal Wellbore
Design: Plan #1



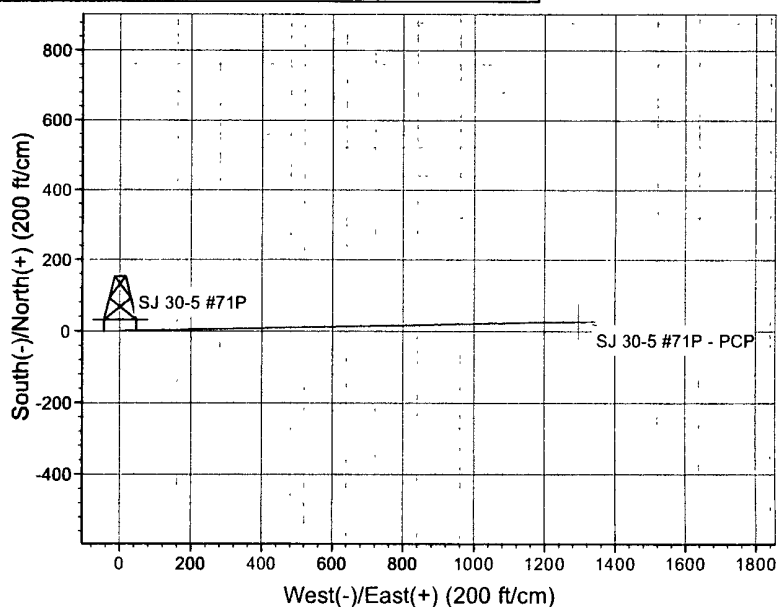
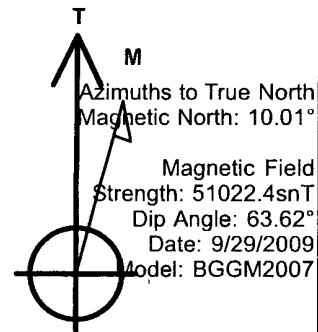
SECTION DETAILS

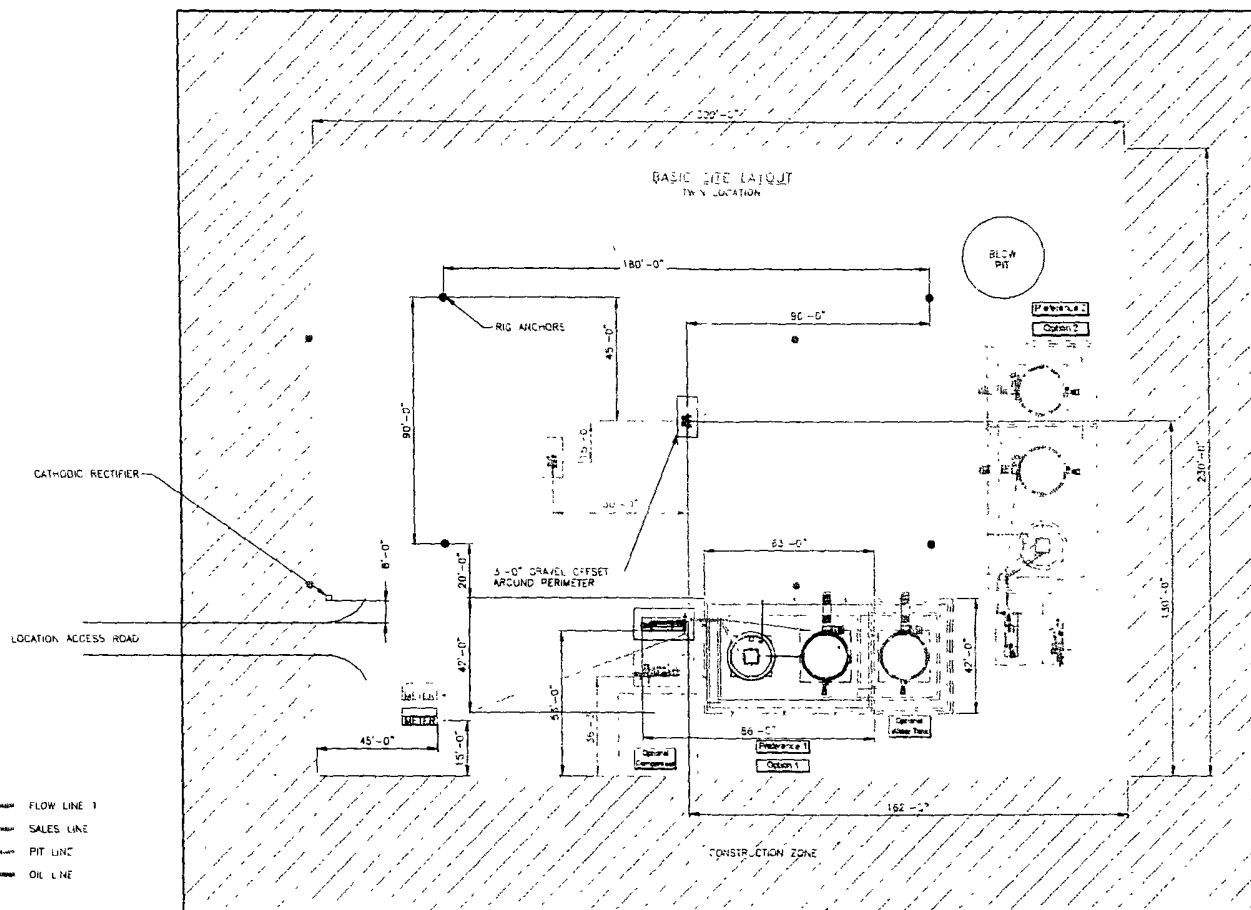
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1284.5	28.93	88.82	1244.0	4.9	238.3	3.00	88.82	238.4	
4	2977.9	28.93	88.82	2726.0	21.8	1057.4	0.00	0.00	1057.7	
5	3942.3	0.00	0.00	3650.0	26.7	1295.8	3.00	180.00	1296.0	SJ 30-5 #71P - ICP
6	8181.3	0.00	0.00	7889.0	26.7	1295.8	0.00	0.00	1296.0	SJ 30-5 #71P - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1086.0	1387.3	Nacimiento
2289.0	2761.9	Ojo
2448.0	2943.6	Kirtland
2500.0	3002.9	Fruitland
3144.0	3683.5	Pictured Cliffs
3252.0	3792.2	Lewis
3936.0	4476.3	Huerfano Bentonite
4252.0	4792.3	Chacra
5015.0	5555.3	Upper Cliffhouse
5094.0	5634.3	Mass. Cliffhouse
5134.0	5674.3	Menefee
5353.0	5893.3	Point Lookout
5774.0	6314.3	Mancos
6632.0	7172.3	Upper Gallup
7354.0	7894.3	Greenhorn
7406.0	7946.3	Graneros
7526.0	8066.3	Two Wells
7527.0	8067.3	Paguate
7531.0	8071.3	Upper Cubero
7574.0	8114.3	Lower Cubero
7641.0	8181.3	Encinal





FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

SEE SHEET 3 & 4 FOR PIPING DETAILS
 ALL UNDERGROUND PIPE IS TO BE BURIED A MIN OF 3'-0" TOP

SHEET 1 OF 2

										ENGINEERING REVIEW			REFERENCE DRAWINGS		CONOCO-PHILLIPS		SAN JUAN BUSINESS UNIT		CONOCO-PHILLIPS HP35 PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT	
										DISCIPLINE	REVIEWED	DATE	NO.	DESCRIPTION						
										PROCESS										
										MECHANICAL										
										Piping										
										ELECTRICAL										
										I & C										
										CIVIL/STRUCTURAL										

Directions from the Post Office
in Blanco, NM to
CONOCOPHILLIPS COMPANY
SAN JUAN 30-5 UNIT 71P
715' FSL & 1105' FWL,
Section 22, T30N, R5W, N.M.P.M.,
Rio Arriba County, New Mexico
Latitude: 36° 47' 34.422" N
Longitude: 107° 20' 59.942" W
Nad 1983

From the Post Office in Blanco, NM
Take Highway 64 East for 28.8 miles
To Hwy 527 (Simms Mesa Hwy),
Turn left (northwest) on Hwy 527 for 8.0 miles,
To Rosa Road, turn right (northeast) for 6.3 miles,
Across La Jara Bridge to the y-intersection,
Turn right (northeasterly) 0.1 miles,
continue (southeasterly) for 0.8 miles to y-intersection,
stay right (southeasterly) for 0.8 miles to y-intersection,
stay left (southeasterly) 2.9 miles to y-intersection,
stay right (southerly) 0.3 miles,
turn left (southeasterly) 0.7 miles,
to newly staked location co-located on existing well pad,
SAN JUAN 30-5 UNIT 71.