

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 16 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management

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-078048 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company		7. Unit Agreement Name RCVD JUL 12 '10 OIL CONS. DIV. DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Porkchop Federal 27 9. Well Number 1F
4. Location of Well Surf: Unit E (SWNW), 1845' FNL & 1145' FWL BHL: Unit F (SENW), 1880' FNL & 2340' FWL Surf: Latitude: 36.459935° N (NAD83) Longitude: 107.568319° W Bottomhole: Latitude: 36.459727° N (NAD83) Longitude: 107.564279° W		10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) E Sec. 27, T26N, R7W API # 30-039- 30977
14. Distance in Miles from Nearest Town 37.2 miles from Bloomfield, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1145'		
16. Acres in Lease 2560.60	17. Acres Assigned to Well 320.00 acres (N/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 71' from Porkchop Federal 27 1E - DK		
19. Proposed Depth 6868'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6223' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Dollie L. Busse</u> Dollie L. Busse (Staff Regulatory Tech)	<u>June 15, 2010</u> Date	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 7/1/2010

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 for 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

for Directional Survey
and "As Drilled" plot

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

JUL 14 2010

NMOCD

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

NOTIFY AZTEC UCD 24 HRS.
PRIOR TO CASING & CEMENT

A COMPLETE C-144 MUST BE SUBMITTED TO AND
APPROVED BY THE NMOCD FOR: A PIT, CLOSED
LOOP SYSTEM, BELOW GRADE TANK, OR
PROPOSED ALTERNATIVE METHOD, PURSUANT TO
NMOCD PART 19.15.17, PRIOR TO THE USE OR
CONSTRUCTION OF THE ABOVE APPLICATIONS.

PC

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. JUN 16 2010
Santa Fe, NM 87505

Bureau of Land Management
Farrington Field Office

Form C-102
Revised October 12, 2005

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30977	² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code 31865	⁵ Property Name PORKCHOP FEDERAL 27	⁶ Well Number 1F
⁷ OCRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6223'

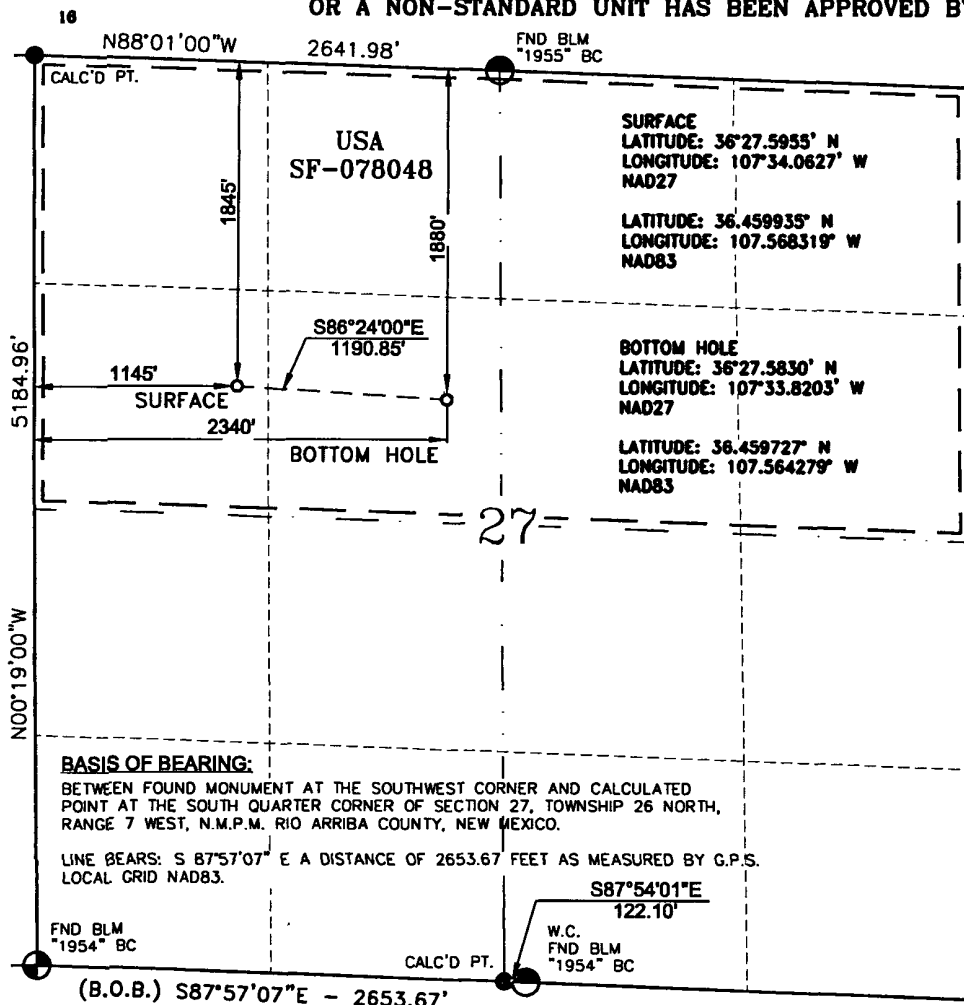
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	27	26-N	7-W		1845	NORTH	1145	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
F	27	26-N	7-W		1880	NORTH	2340	WEST	RIO ARRIBA
¹² Dedicated Acres DK 320.00 ACRES N/2			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.		

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 unless 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.

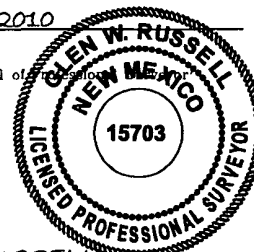
Ethel Tally
Signature
Ethel Tally
Printed Name

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.

MARCH 3, 2010
Date of Survey

Signature and Seal of



GLEN W. RUSSELL
Certificate Number 15703

PROJECT PROPOSAL - New Drill / Sidetrack

PORKCHOP FEDERAL 27 1F

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9372		AFE \$: 975,166.89	
Field Name: SAN JUAN		Rig: H&P Rig 283		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)				
Location: Surface					
Datum Code: NAD 27		Directional			
Latitude: 36.459925	Longitude: -107.567712	X:	Y:	Section: 27	Range: 007W
Footage X: 1145 FWL	Footage Y: 1845 FNL	Elevation: 6223	(FT)	Township: 026N	
Tolerance:					
Location: Bottom Hole					
Datum Code: NAD 27		Directional			
Latitude: 36.459717	Longitude: -107.563672	X:	Y:	Section: 27	Range: 007W
Footage X: 2340 FWL	Footage Y: 1880 FNL	Elevation:	(FT)	Township: 026N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2011		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 6238 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	215	6023	☐		
OJO ALAMO	1502	4736	☐		
KIRTLAND	1701	4537	☐		
FRUITLAND	1868	4370	☐		Possible Gas
PICTURED CLIFFS	2284	3954	☐		
LEWIS	2345	3893	☐		
HUERFANITO BENTONITE	2664	3574	☐		
CHACRA	3122	3116	☐		
Intermediate Casing	3500	2738	☐		
UPPER CLIFF HOUSE	3707	2531	☐		
MASSIVE CLIFF HOUSE	3845	2393	☐		
MENEFEE	3910	2328	☐		
POINT LOOKOUT	4513	1725	☐		GAS
MANCOS	4846	1392	☐		
UPPER GALLUP	5617	621	☐		
GREENHORN	6507	-269	☐		
GRANEROS	6563	-325	☐		
TWO WELLS	6615	-377	☐	3219	Gas
PAGUATE	6644	-406	☐		
UPPER CUBERO	6708	-470	☐		
LOWER CUBERO	6732	-494	☐		
OAK CANYON	6781	-543	☐		

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

PORKCHOP FEDERAL 27 1F

DEVELOPMENT

ENCINAL	6802	-564	☐	TD based on being mud drill as recommended by RAM. If air drilled re-evaluation of TD and Btm perf needed. TD - T/MRSN 185 6-1/4" hole, 4-1/2", 11.6 ppf, L-80/J-55, LTC casing. Cement with 461 cuft. Circulate cement a minimum of 100' inside the previous casing string.
BURRO CANYON	6824	-586	☐	
MORRISON	6868	-630	☐	
Total Depth	6868	-630	☐	

Reference Wells:		
Reference Type	Well Name	Comments
Production	Breech 377	26N 7W 23 SW SW
Production	Porkchop Federal 27 1E	26N 7W 27 NE SW NW
Production	Porkchop Federal 27 1	26N 7W 27 NW SE NE

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
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Cased Hole GR / CBL

Mudlog from 100' above top of GLLP 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 Porkchop Federal 27 1F
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6238.0ft (AWS Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6238.0ft (AWS Rig)
Site:	Other Named Wells	North Reference:	True
Well:	Porkchop Federal 27 1F	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,170.1	3,910.0	Menefee		0.00		
7,128.1	6,868.0	Morrison		0.00		
3,967.1	3,707.0	Upper Cliffhouse		0.00		
2,894.8	2,664.0	Huerfano Bentonite		0.00		
3,379.6	3,122.0	Chacra		0.00		
1,577.1	1,502.0	Ojo Alamo		0.00		
2,533.6	2,345.0	Lewis		0.00		
4,773.1	4,513.0	Pt. Lookout		0.00		
2,464.4	2,284.0	Pictured Cliffs		0.00		
5,106.1	4,846.0	Mancos Shale		0.00		
7,041.1	6,781.0	Oak Canyon		0.00		
6,875.1	6,615.0	Two Wells		0.00		
6,904.1	6,644.0	Paguate		0.00		
6,968.1	6,708.0	Upper Cubero		0.00		
4,105.1	3,845.0	Massive Cliffhouse		0.00		
1,992.4	1,868.0	Fruitland		0.00		
6,767.1	6,507.0	Greenhorn		0.00		
7,062.1	6,802.0	Encinal		0.00		
1,802.9	1,701.0	Kirtland		0.00		
6,523.1	6,263.0	Graneros		0.00		
5,877.1	5,617.0	Gallup		0.00		
6,992.1	6,732.0	Lower Cubero		0.00		
7,084.1	6,824.0	Borro Canyon		0.00		

REFERENCE INFORMATION

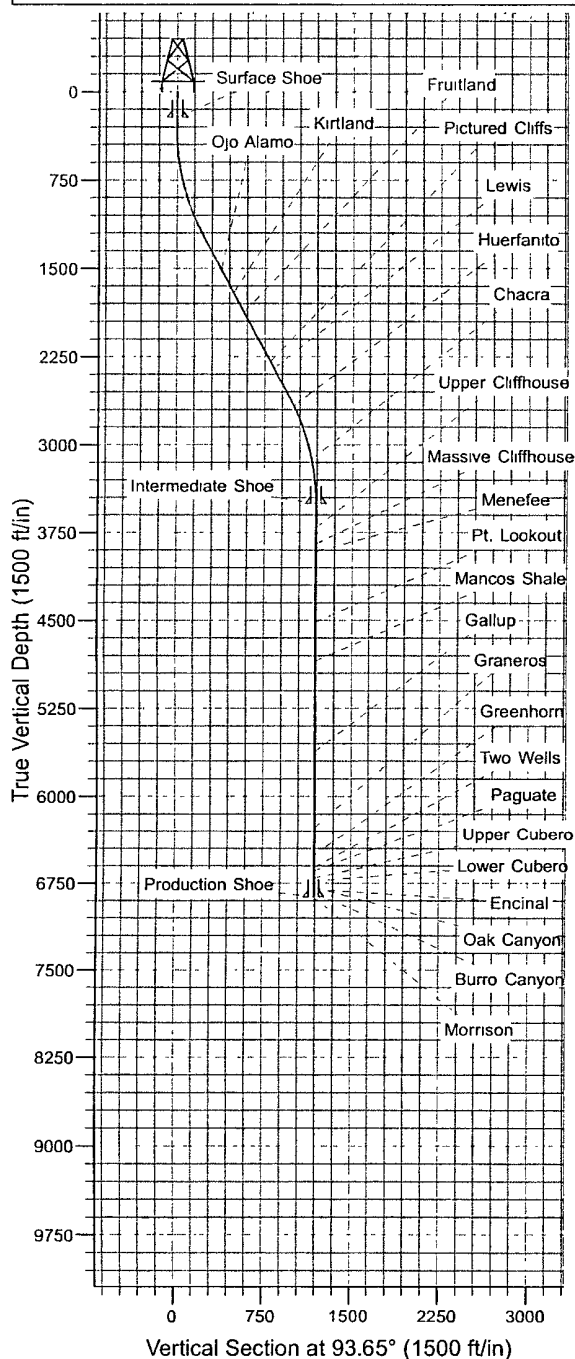
RKB @ 6238.0ft (AWS Rig)
Ground Elevation 6223.0
Reference Lat: 36° 27' 35.730 N
Reference Long: 107° 34' 3.762 W

Project: San Juan Basin - New Mexico Wells
Site: Other Named Wells
Well: Porkchop Federal 27 1F
Wellbore: Original Hole
Design: Plan #1



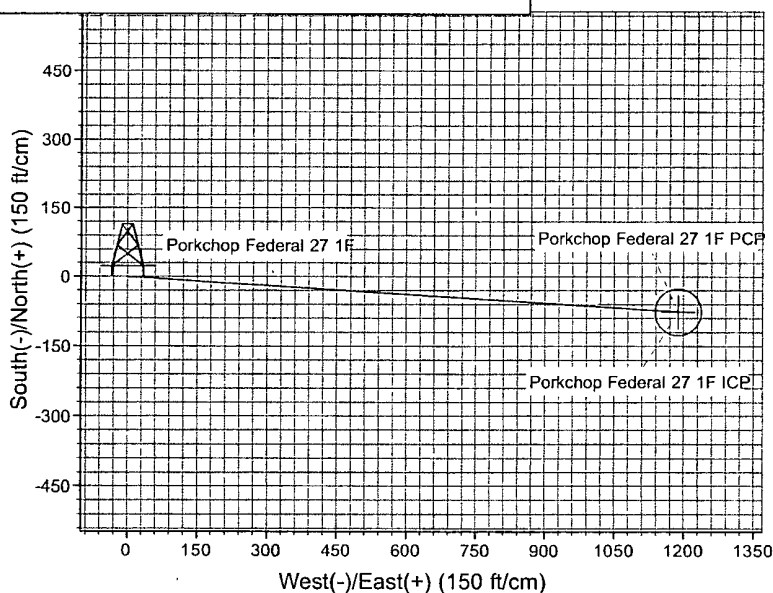
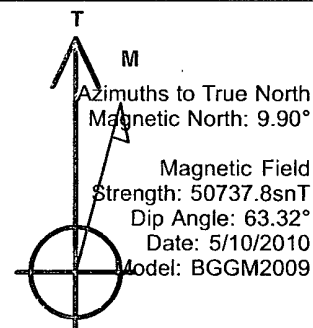
SECTION DETAILS

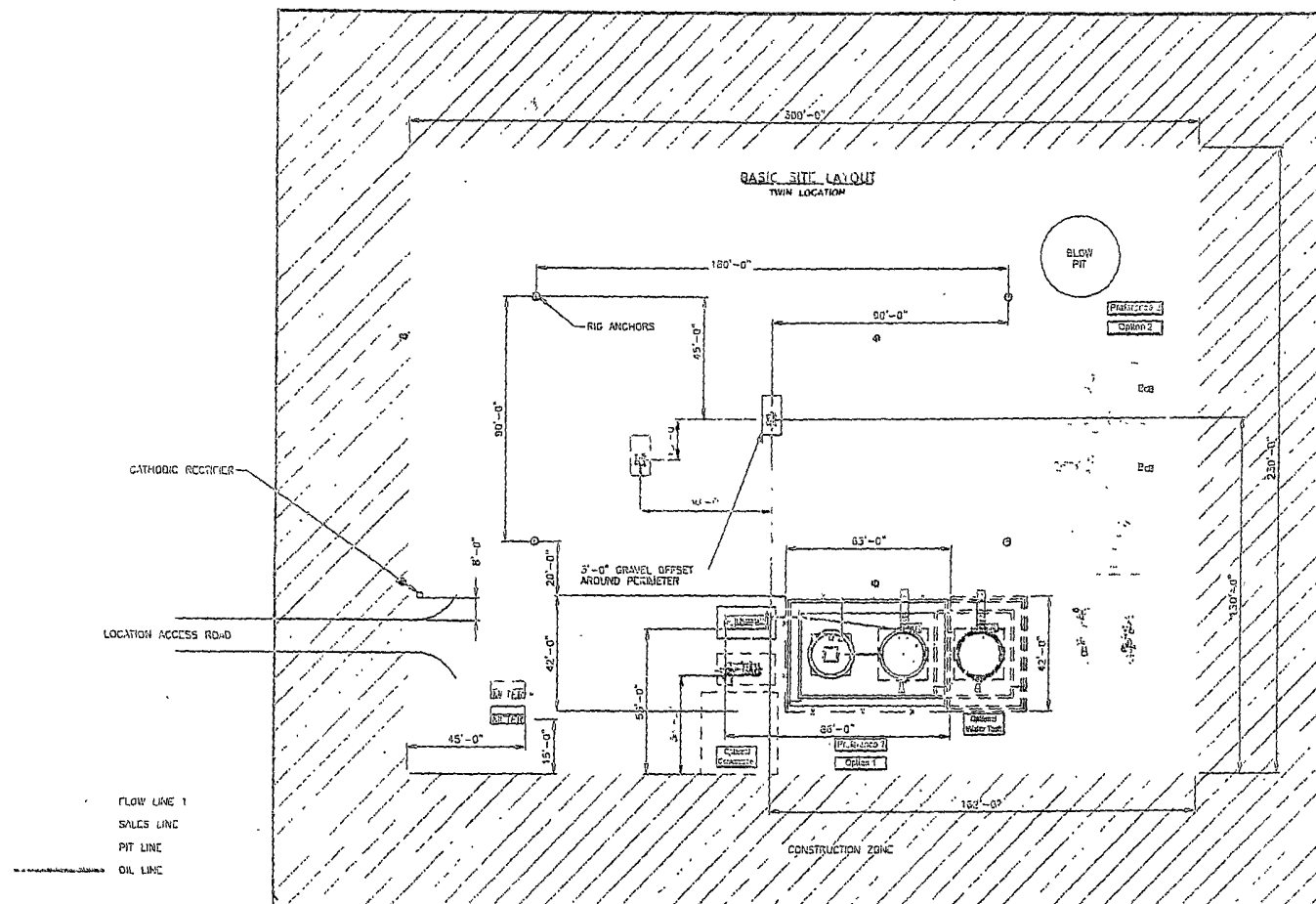
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1259.9	28.20	93.65	1222.4	-14.4	226.2	3.00	93.65	226.6	
4	2820.2	28.20	93.65	2597.6	-61.4	962.0	0.00	0.00	963.9	
5	3760.1	0.00	0.00	3500.0	-75.8	1188.1	3.00	180.00	1190.6	Porkchop Federal 27 1F ICP
6	7128.1	0.00	0.00	6868.0	-75.8	1188.1	0.00	0.00	1190.6	Porkchop Federal 27 1F PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1502.0	1577.1	Ojo Alamo
1701.0	1802.9	Kirtland
1868.0	1992.4	Fruitland
2284.0	2464.4	Pictured Cliffs
2345.0	2533.6	Lewis
2664.0	2894.8	Huerfano Bentonite
3122.0	3379.6	Chacra
3707.0	3967.1	Upper Cliffhouse
3845.0	4105.1	Massive Cliffhouse
3910.0	4170.1	Menefee
4513.0	4773.1	Pt. Lookout
4846.0	5106.1	Mancos Shale
5617.0	5877.1	Gallup
6263.0	6523.1	Graneros
6507.0	6767.1	Greenhorn
6615.0	6875.1	Two Wells
6644.0	6904.1	Pagate
6708.0	6968.1	Upper Cubero
6732.0	6992.1	Lower Cubero
6781.0	7041.1	Oak Canyon
6802.0	7062.1	Encinal
6824.0	7084.1	Burro Canyon
6868.0	7128.1	Morrison





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

SHEET 1 OF 5

[illegible]

Directions from the Intersection of
Hwy 550 & 64 in Bloomfield, NM

to:

ConocoPhillips Company
PORKCHOP FEDERAL 27 #1F

1845' FNL & 1145' FWL,

**Section 27, T26N, R7W, N.M.P.M., Rio Arriba County,
New Mexico**

Latitude: 36 ° 27' 35.765" N

Longitude: 107 ° 34' 05.947" W

NAD 1983

Take Hwy 550 South for 1.0 miles to CR 4900 (S. Sullivan Rd)
turn left (easterly) on CR4900 15.0 miles to Five Mile Bridge,
stay right @ intersection (southeasterly) for 3.2 miles,
across Ten Mile Bridge, continue (southeasterly) 15.9 miles,
turn right (southerly) up Palluche Canyon 2.1 miles
turn right (westerly) 300' to newly staked location,
twinning on existing well pad, PORKCHOP FEDERAL 27 #1E.