

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 22 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Bureau of Land Management
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-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 2F
4. Location of Well Surf: Unit M(SWSW), 1230' FSL & 880' FWL BHL: Unit N(SSEW), 730' FSL & 1845' FWL Surf: Latitude: 36.454174° N (NAD83) Longitude: 107.569191° W Bottomhole: Latitude: 36.452699° N (NAD83) Longitude: 107.565905° W		10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) M Sec. 27, T26N, R7W API # 30-039- 30978
14. Distance in Miles from Nearest Town 37.6 miles from Bloomfield, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 730'		
16. Acres in Lease 2560.60	17. Acres Assigned to Well 320.00 S/2 DK	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 72' from Porkchop Federal 27 2 - DK		
19. Proposed Depth 6846'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6226' 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 22, 2010</u> Date	

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.

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

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 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

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

Hold C104
for Directional Survey
and "As Drilled" plat

NMOCD JUL 14 2010

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 OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

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

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30978		² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code 31865	⁵ Property Name PORKCHOP FEDERAL 27		⁶ Well Number 2F
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY		⁹ Elevation 6226'

¹⁰ Surface Location

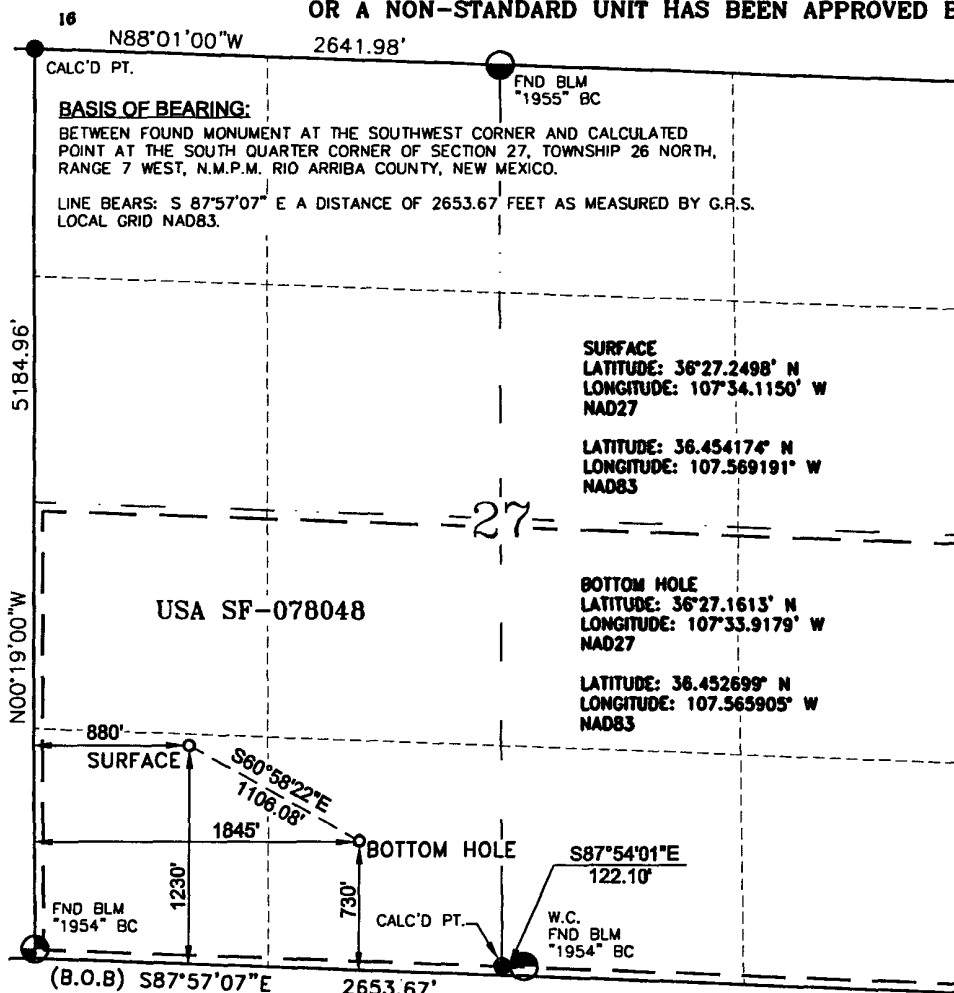
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	27	26-N	7-W		1230	SOUTH	880	WEST	RIO ARriba

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	27	26-N	7-W		730	SOUTH	1845	WEST	RIO ARriba

¹² Dedicated Acres DK 320.00 ACRES S/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



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.

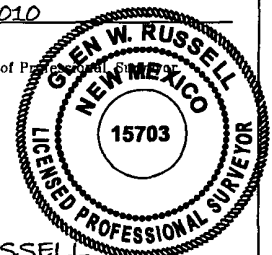
Ethel Tally
Signature
Ethel Tally
Printed Name

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 4, 2010
Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL
Certificate Number 15703

pl

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

PORKCHOP FEDERAL 27 2F

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9373		AFE \$: 971,363.74	
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: 36.454164	Longitude: -107.568584	X:	Y:	Section: 27	Range: 007W
Footage X: 880 FWL	Footage Y: 1230 FSL	Elevation: 6226	(FT)	Township: 026N	
Tolerance:					
Location: Bottom Hole					
Datum Code: NAD 27		Directional			
Latitude: 36.452688	Longitude: -107.565298	X:	Y:	Section: 27	Range: 007W
Footage X: 1845 FWL	Footage Y: 730 FSL	Elevation:	(FT)	Township: 026N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2011		Completion Date:	
Date In Operation:					
Formation Data: Assume KB = 6241 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
BHT	Remarks				
Surface Casing	215	6026		☐	215' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
OJO ALAMO	1483	4758		☐	
KIRTLAND	1673	4568		☐	
FRUITLAND	1863	4378		☐	Possible Gas
PICTURED CLIFFS	2263	3978		☐	
LEWIS	2325	3916		☐	
HUERFANITO BENTONITE	2633	3608		☐	
CHACRA	3098	3143		☐	
Intermediate Casing	3400	2841		☐	130 8 3/4" hole, 7", 23 ppf, J-55, LTC casing. Cement with 815 cuft. Circulate cement to surface.
UPPER CLIFF HOUSE	3674	2567		☐	Cliffhouse Is Wet
MASSIVE CLIFF HOUSE	3812	2429		☐	
MENEFEE	3888	2353		☐	
POINT LOOKOUT	4479	1762		☐	745 GAS
MANCOS	4821	1420		☐	
UPPER GALLUP	5597	644		☐	
GREENHORN	6492	-251		☐	
GRANEROS	6548	-307		☐	
TWO WELLS	6598	-357		☐	3298 Gas
PAGUATE	6639	-398		☐	
UPPER CUBERO	6693	-452		☐	
LOWER CUBERO	6717	-476		☐	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

PORKCHOP FEDERAL 27 2F

DEVELOPMENT

OAK CANYON	6772	-531	☐	
ENCINAL	6786	-545	☐	Est. Btm Perf - 6776 (- 535) based on offset wells
BURRO CANYON	6805	-564	☐	TD based on being mud drill as recommended by RAM. If air drilled re-evaluation of TD and Btm perf needed.
MORRISON	6846	-605	☐	TD - T/MRSN
Total Depth	6846	-605	☐	185 6 1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80 LTC casing. Cement with 473 cuft. Circulate cement to surface.

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
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 2F
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6241 0ft (AWS Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6241 0ft (AWS Rig)
Site:	Other Named Wells	North Reference:	True
Well:	Porkchop Federal 27 2F	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,780.0	6,548.0	Graneros		0.00		
2,842.7	2,633.0	Huerfano Bentonite		0.00		
1,765.9	1,673.0	Kirtland		0.00		
4,044.0	3,812.0	Massive Cliffhouse		0.00		
6,925.0	6,693.0	Upper Cubero		0.00		
4,120.0	3,888.0	Menefee		0.00		
1,979.4	1,863.0	Fruitland		0.00		
6,830.0	6,598.0	Two Wells		0.00		
2,498.4	2,325.0	Lewis		0.00		
3,906.0	3,674.0	Upper Cliffhouse		0.00		
6,949.0	6,717.0	Lower Cubero		0.00		
2,428.8	2,263.0	Pictured Cliffs		0.00		
1,552.5	1,483.0	Ojo Alamo		0.00		
5,829.0	5,597.0	Gallup		0.00		
7,037.0	6,805.0	Burro Canyon		0.00		
4,711.0	4,479.0	Pt. Lookout		0.00		
6,871.0	6,639.0	Paguate		0.00		
7,078.0	6,846.0	Morrison		0.00		
6,724.0	6,492.0	Greenhorn		0.00		
3,328.7	3,098.0	Chacra		0.00		
7,004.0	6,772.0	Oak Canyon		0.00		
7,018.0	6,786.0	Encinal		0.00		
5,053.0	4,821.0	Mancos Shale		0.00		

REFERENCE INFORMATION

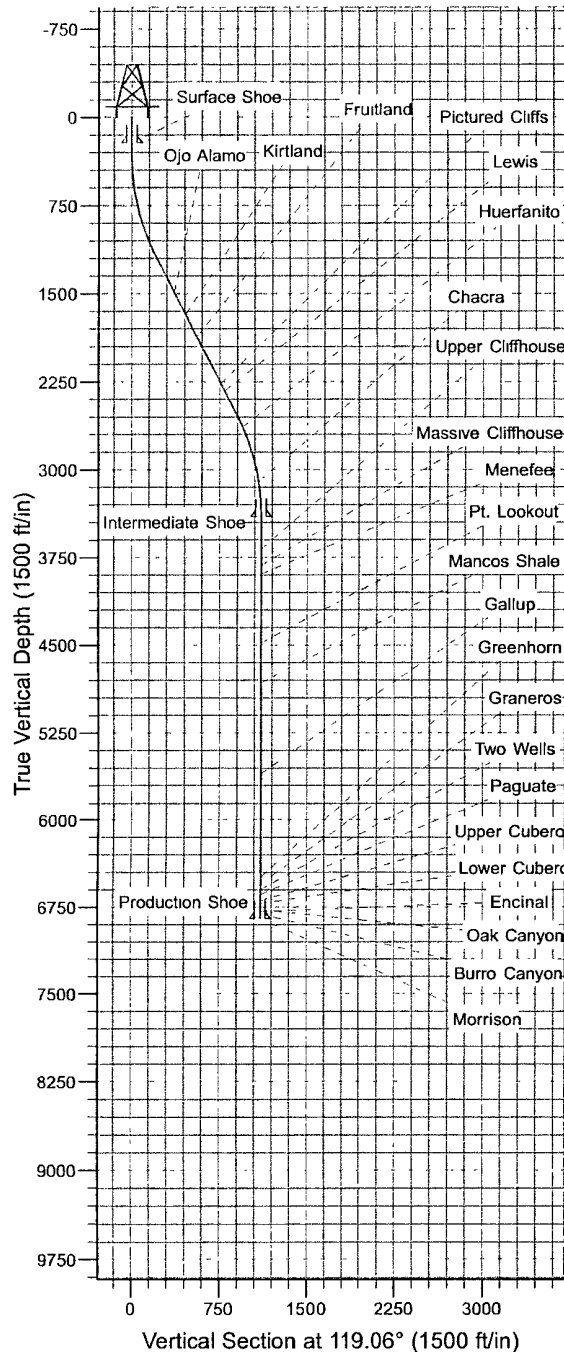
RKB @ 6241.0ft (AWS Rig)
Ground Elevation 6226.0
Reference Lat: 36° 27' 14.988 N
Reference Long: 107° 34' 6.900 W

Project: San Juan Basin - New Mexico Wells
Site: Other Named Wells
Well: Porkchop Federal 27 2F
Wellbore: Original Hole
Design: Plan #1

ConocoPhillips

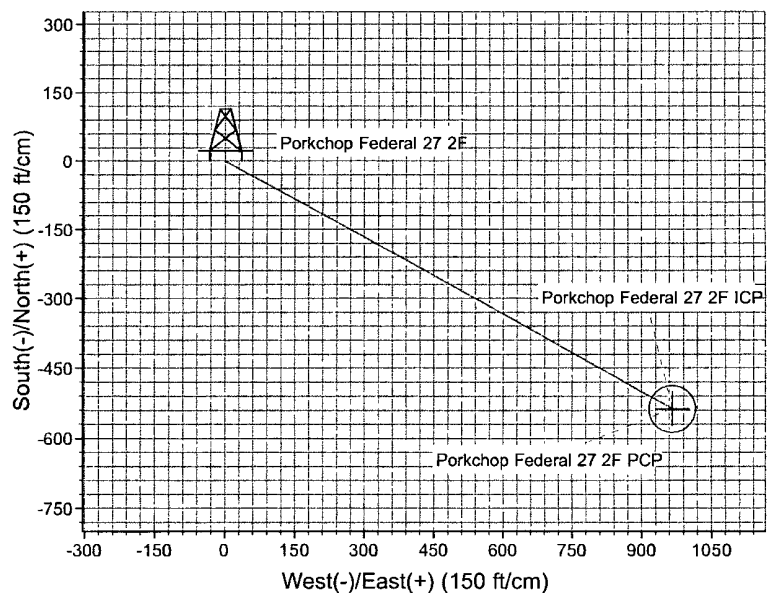
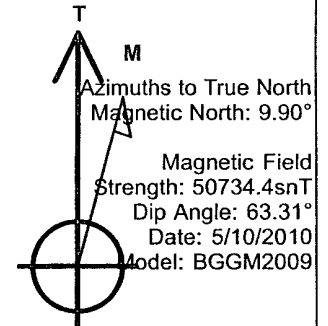
SECTION DETAILS

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	1223.7	27.11	119.06	1190.4	-101.9	183.4	3.00	119.06	209.8	
4	2728.3	27.11	119.06	2529.6	-435.0	782.8	0.00	0.00	895.5	
5	3632.0	0.00	0.00	3400.0	-537.0	966.2	3.00	180.00	1105.4	Porkchop Federal 27 2F ICP
6	7078.0	0.00	0.00	6846.0	-537.0	966.2	0.00	0.00	1105.4	Porkchop Federal 27 2F PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1483.0	1552.5	Ojo Alamo
1673.0	1765.9	Kirtland
1863.0	1979.4	Fruitland
2263.0	2428.8	Pictured Cliffs
2325.0	2498.4	Lewis
2633.0	2842.7	Huerfanito Bentonite
3098.0	3328.7	Chacra
3674.0	3906.0	Upper Cliffhouse
3812.0	4044.0	Massive Cliffhouse
3888.0	4120.0	Menefee
4479.0	4711.0	Pt. Lookout
4821.0	5053.0	Mancos Shale
5597.0	5829.0	Gallup
6492.0	6724.0	Greenhorn
6548.0	6780.0	Graneros
6598.0	6830.0	Two Wells
6639.0	6871.0	Pagate
6693.0	6925.0	Upper Cubero
6717.0	6949.0	Lower Cubero
6772.0	7004.0	Oak Canyon
6786.0	7018.0	Encinal
6805.0	7037.0	Burro Canyon
6846.0	7078.0	Morrison



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

to:

ConocoPhillips Company
PORKCHOP FEDERAL 27 #2F

1230' FSL & 880' FWL,

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

New Mexico

Latitude: 36 ° 27' 15.027" N

Longitude: 107 ° 34' 09.087" 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 2.5 miles
turn left (southerly) to newly staked location,
twinned on existing well pad, PORKCHOP FEDERAL 27 #2.