

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 18 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management
Farmington Field Office

1a. Type of Work DRILL	5. Lease Number SF-078739 Unit Reporting Number NMNM-78419A-RV NMNM-78419B	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips Company	7. Unit Agreement Name 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 OIL CONS. DIV. DIST. 3 90P RCVD MAR 16 '10	
4. Location of Well Surf: Unit P(SESE), 658' FSL & 1147' FEL Bottomhole: Unit O(SWSE), 585' FSL & 1995' FEL Surf: Latitude: 36.792727° N (NAD83) Longitude: 107.339630° W Bottomhole: Latitude: 36.792528° N (NAD83) Longitude: 107.342526° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) p Sec. 22, T30N, R5W API # 30-039- 30921	
14. Distance in Miles from Nearest Town 59 miles / Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 585'		
16. Acres in Lease 2,320.00	17. Acres Assigned to Well 320.00 E/2 - MV/DK	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 293' from San Juan 30-5 Unit 240A (FC)		
19. Proposed Depth 8078'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6661' GL	22. Approx. Date Work will Start 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	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	Date <u>2/18/10</u>	

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AFM

DATE 3/11/2010

Hold C104

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 ES-0048 and ES-0085

MAR 17 2010

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

NMOC

P.A.
B

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

NOTIFY AZTEC OGD 24 HRS.
PRIOR TO CASING & CEMENT

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

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 7 Copies
Fee Lease - 3 Copies

FEB 18 2010

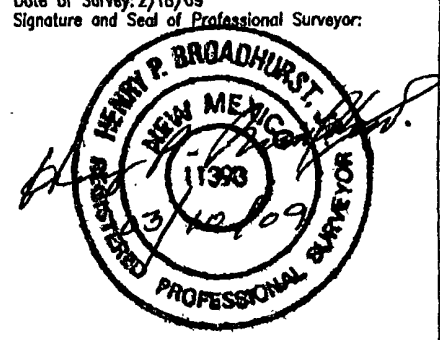
Bureau of Land Management
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039- 30921		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 90P	
7 OGRID No. 217817		8 Operator Name CONOCOPHILLIPS COMPANY						9 Elevation 6661	
10 SURFACE LOCATION									
UL or lot no. P	Section 22	Township 30-N	Range 5-W	Lot Idn	Feet from the 658	North/South line SOUTH	Feet from the 1147	East/West line EAST	County RIO ARRIBA
11 Bottom Hole Location If Different From Surface									
UL or lot no. O	Section 22	Township 30-N	Range 5-W	Lot Idn	Feet from the 585	North/South line SOUTH	Feet from the 1995	East/West line EAST	County RIO ARRIBA
12 Dedicated Acres 320.00 (E/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

16		GLO 1916	
		5280.0' (R) 5298.4' (M)	
E/2 DEDICATED ACREAGE USA SF-078739 SECTION 22, T-30-N, R-5-W			
WELL FLAG NAD 83 LAT: 36.792727° N LONG: 107.339630° W NAD 27 LAT: 36°47.563212' N LONG: 107°20.341754' W			
BOTTOM HOLE NAD 83 LAT: 36.792528° N LONG: 107.342526° W NAD 27 LAT: 36°47.551308' N LONG: 107°20.515528' W GLO 1916		S 84°50'10" W 851.1' 1995' 1147' N 0°03' E N 0°19'20" W 2640.0' (R) 2642.6' (M) GLO 1916	
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. Signature: <i>Crystal Tafoya</i> 3/16/09 Printed Name: Crystal Tafoya Regulatory Technician Title and E-mail Address March 16th, 2009 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: 2/18/09 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 90P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8514				AFE \$: 1,759,578.20	
Field Name: SAN JUAN		Rig: H&P Rig 282		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: 36.792720	Longitude: -107.339029	X:	Y:	Section: 22		Range: 005W	
Footage X: 1147 FEL		Footage Y: 658 FSL		Elevation: 6661 (FT)	Township: 030N		
Tolerance:							
Location: Bottom Hole Datum Code: NAD:27 Directional							
Latitude: 36.792521	Longitude: -107.341925	X:	Y:	Section: 22		Range: 005W	
Footage X: 1995 FEL		Footage Y: 585 FSL		Elevation: (FT)	Township: 030N		
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2010		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6676 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	201	6475	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 160 cuft. Circulate cement to surface.	
OJO ALAMO	2712	3964	☐				
KIRTLAND	2910	3766	☐				
FRUITLAND	2931	3745	☐			Possible Gas	
PICTURED CLIFFS	3581	3095	☐				
LEWIS	3682	2994	☐				
Intermediate Casing	3782	2894	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 883 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4368	2308	☐				
CHACRA	4688	1988	☐				
UPPER CLIFF HOUSE	5249	1427	☐			Gas; Est. Top Perf - 5250 (1425)	
MASSIVE CLIFF HOUSE	5528	1148	☐	476		Gas	
MENEFEE	5570	1106	☐				
POINT LOOKOUT	5798	878	☐				
MANCOS	6216	460	☐				
UPPER GALLUP	7070	-394	☐				
GREENHORN	7786	-1110	☐				
GRANEROS	7838	-1162	☐				
TWO WELLS	7960	-1284	☐	3198		Gas	
UPPER CUBERO	7965	-1289	☐				
LOWER CUBERO	8008	-1332	☐			Est. Btm Perf - 8057 (-1382) based on offset wells	
ENCINAL	8078	-1402	☐			TD - T/ENCN	

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 UNIT 90P

DEVELOPMENT

Total Depth	8078	-1402	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 585 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 30-5 235	30N 5W 27 SE NW NE
Production	SJ 30-5 94	30N 5W 27 SE NW NE
Production	SJ 30-5 90M	30N 5W 22 SW NE SE

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 #90P
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6676.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 6676.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #90P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,388.3	5,249.0	Upper Cliffhouse		0.00		
8,147.3	8,008.0	Lower Cubero		0.00		
5,937.3	5,798.0	Massive Point Lookout		0.00		
4,507.3	4,368.0	Huerfanito Bentonite		0.00		
3,821.2	3,682.0	Lewis		0.00		
8,217.3	8,078.0	Encinal		0.00		
7,977.3	7,838.0	Graneros		0.00		
3,719.9	3,581.0	Pictured Cliffs		0.00		
3,020.0	2,910.0	Kirtland		0.00		
8,104.3	7,965.0	Upper Cubero		0.00		
6,355.3	6,216.0	Mancos		0.00		
8,099.3	7,960.0	Two Wells		0.00		
4,827.3	4,688.0	Chacra		0.00		
2,807.5	2,712.0	Ojo Alamo		0.00		
3,042.5	2,931.0	Fruitland		0.00		
7,925.3	7,786.0	Greenhorn		0.00		
5,709.3	5,570.0	Menefee		0.00		
7,209.3	7,070.0	Upper Gallup		0.00		
5,667.3	5,528.0	Massive Cliffhouse		0.00		

REFERENCE INFORMATION

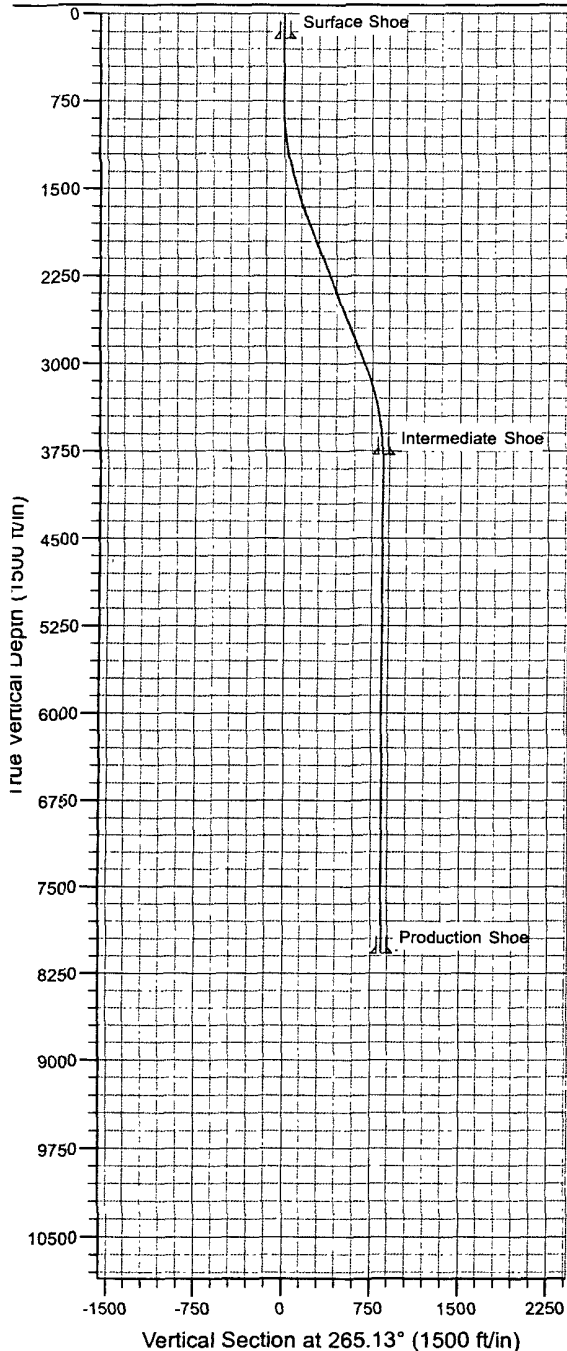
WELL @ 6676.0ft (Original Well Elev)
Ground Elevation 6661.0
Reference Lat: 36° 47' 33.793 N
Reference Long: 107° 20' 20.505 W

Project: San Juan Basin - New Mexico Wells
Site: San Juan 30 Wells
Well: SJ 30-5 #90P
Wellbore: Wellbore #1
Design: Plan #1



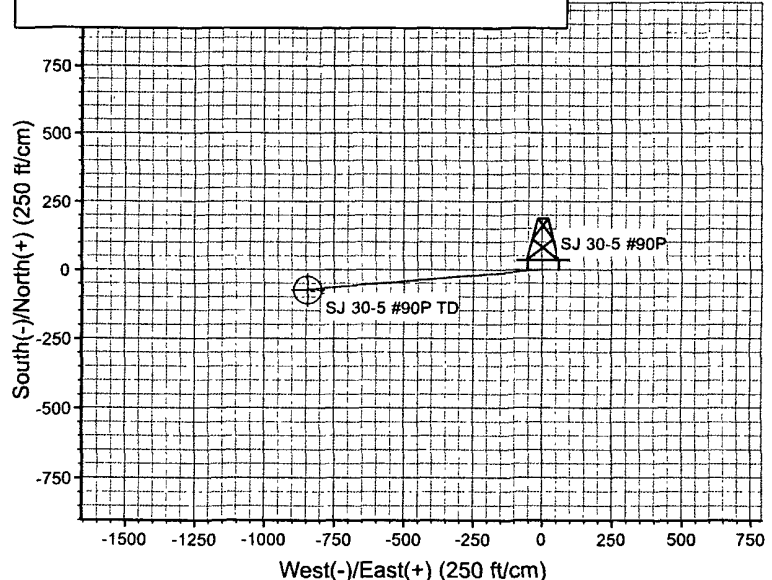
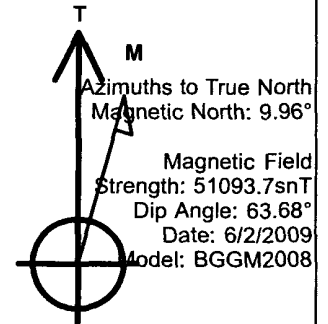
SECTION DETAILS

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	700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.0	
3	1764.4	21.29	265.13	1740.1	-16.6	-194.8	2.00	265.13	195.5	
4	3211.7	21.29	265.13	3088.6	-61.2	-718.3	0.00	0.00	720.9	
5	3921.3	0.00	0.00	3782.0	-72.3	-848.2	3.00	180.00	851.2	SJ 30-5 #90P ICP
6	8217.3	0.00	0.00	8078.0	-72.3	-848.2	0.00	0.00	851.2	SJ 30-5 #90P TD



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2712.0	2807.5	Ojo Alamo
2910.0	3020.0	Kirtland
2931.0	3042.5	Fruitland
3581.0	3719.9	Pictured Cliffs
3682.0	3821.2	Lewis
4368.0	4507.3	Huerfano Bentonite
4688.0	4827.3	Chacra
5249.0	5388.3	Upper Cliffhouse
5528.0	5667.3	Massive Cliffhouse
5570.0	5709.3	Menefee
5798.0	5937.3	Massive Point Lookout
6216.0	6355.3	Mancos
7070.0	7209.3	Upper Gallup
7786.0	7925.3	Greenhorn
7838.0	7977.3	Graneros
7960.0	8099.3	Two Wells
7965.0	8104.3	Upper Cubero
8008.0	8147.3	Lower Cubero
8078.0	8217.3	Encinal



CONOCOPHILLIPS COMPANY

SAN JUAN 30-5 UNIT #90P

658' FSL, 1147' FEL

SECTION 22, T-30-N, R-5-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.792727°N LONG.: 107.339630°W

ELEV.: 6661 NAVD88

NO NEW ACCESS

FROM BLOOMFIELD, N.M.:

- GO 37.7 MI. EAST ON HWY. 64 (MILE MARKER 102.3) TURN LEFT (NORTH) ON HWY. 527 (AKA SIMMS MARINA ROAD).
- GO 8.0 MI. NORTH ON HWY. 527. TURN RIGHT ONTO ROSA ROAD.
- GO 6.4 MI. ALONG ROSA ROAD, CROSSING LA JARA WASH. TURN RIGHT (EASTERLY) AT BLM/FORREST SERVICE WARNING SIGN.
- GO 5.2 MI., CROSSING LA FRAGUA WASH, STAYING ON MAIN ROAD EAST. TURN RIGHT, JUST SOUTH OF THE DRY POND & FALLEN COTTONWOOD TREE.
- GO 1.3 MI. EAST. TURN RIGHT, BEFORE ENTERING FOREST BOUNDARY.
- GO 0.5 MI. SOUTH. TURN RIGHT.
- GO 450 FT. WEST TO SJ 30-5 #240A WELL LOCATION. NEW WELL STAKED OFF WEST SIDE OF PAD.