

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK OCT 23 2009

1a. Type of Work
DRILL

5. Lease Number Bureau of Land Management
SF-078740 Farmington Field Office
Unit Reporting Number

1b. Type of Well
GAS

6. If Indian, All. or Tribe

RCVD JAN 5 '10

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
San Juan 30-5 Unit

9. Well Number
48N

4. Location of Well
Surf: Unit P (SESE), 1310' FSL & 740' FEL
Bottom Hole: Unit P (SESE), 780' FSL & 405' FEL
Surf: Latitude: 36.794491° N (NAD83)
Longitude: 107.374163° W
Bottomhole: Latitude: 36.793029° N (NAD83)
Longitude: 107.373029° W

10. Field, Pool, Wildcat
Basin DK/Blanco MV

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 20, T30N, R5W

API # 30-039-30829

14. Distance in Miles from Nearest Town
48.45 Miles from Blanco

12. County
Rio Arriba

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
740'

16. Acres in Lease
2560

17. Acres Assigned to Well
320 E/2 MV/DK

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease
72' from San Juan 30-5 Unit 223A

19. Proposed Depth
7963'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6469' GL

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

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

24. Authorized by: Kelly Jeffery (Regulatory Technician)

Date

Hold C104

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

JAN 07 2010

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

NMOCD

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

DISTRICT I
1025 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

RECEIVED

Form C-102
Revised October 12, 2005

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

Bureau of Land Management
Farmington Field Office ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30829		*Pool Code 71599/72319	*Pool Name BASIN DAKOTA/BLANCO MESAVERDE
*Property Code 31327	*Property Name SAN JUAN 30 - 5 UNIT		*Well Number 48N
*GRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY		*Elevation 6469'

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
P	20	30-N	5-W		1310	SOUTH	740	EAST	RIO ARRIBA

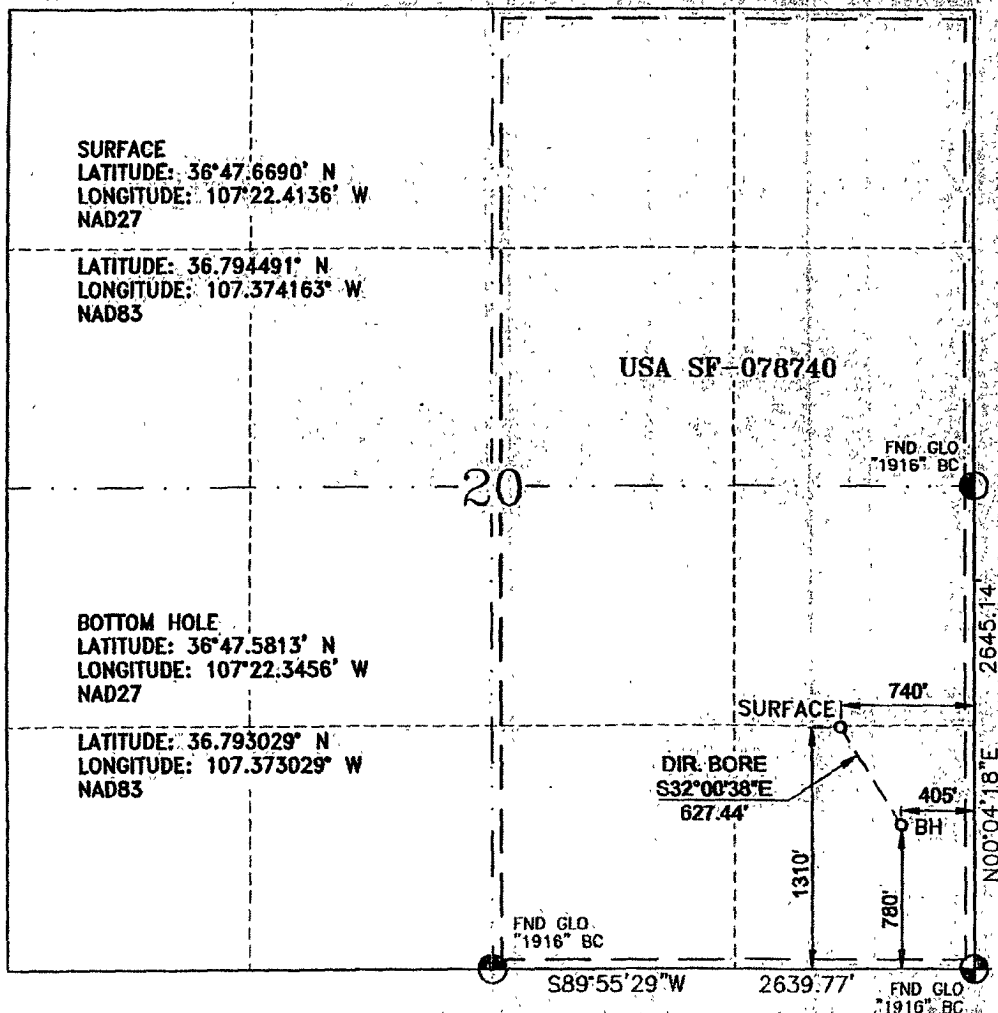
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	20	30-N	5-W		780	SOUTH	405	EAST	RIO ARRIBA

*Dedicated Acres DK 320.00 ACRES E/2 MV 320.00 ACRES E/2		*Joint or Infill	*Consolidation Code	*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

18



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 undivided 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.

Signature

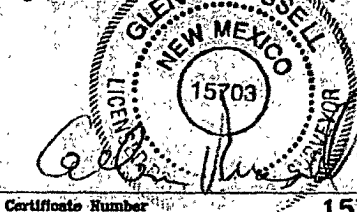
Printed Name
Kelly Jeffery

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
7-29-09

Signature and Seal of Licensed Surveyor



Certificate Number

15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 48N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9098		AFE \$: 1,710,204.66	
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:	
				Phone:	

Primary Objective (Zones):

Zone	Zone Name
RON	BLANCO MESAVERDE (PRORATED GAS)
FRR	BASIN DAKOTA (PRORATED GAS)

Location: SURFACE		Datum Code: NAD 27		Direction:	
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Latitude: 36.794484	Longitude: -107.373561	X:	Y:	Section: 20	Range: 005W
Footage X: 740 FEL	Footage Y: 1310 FSL	Elevation: 6469	(FT)	Township: 030N	

Tolerance:

Location: Bottom Hole		Datum Code: NAD 27		Direction:	
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Latitude: 36.793022	Longitude: -107.372427	X:	Y:	Section: 20	Range: 005W
Footage X: 405 FEL	Footage Y: 780 FSL	Elevation:	(FT)	Township: 030N	

Tolerance:

Location Type: Restricted	Start Date (Est.): 1/1/2010	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 6484	Units = FT
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Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	202	6282	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 167 cuft. Circulate cement to surface.
NACIMIENTO	1346	5138	☐			
OJO ALAMO	2621	3863	☐			
KIRTLAND	2717	3767	☐			
FRUITLAND	2830	3654	☐	208		Possible Gas
PICTURED CLIFFS	3428	3056	☐	1010		
LEWIS	3510	2974	☐			
Intermediate Casing	3610	2874	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 826 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4183	2301	☐			
CHACRA	4502	1982	☐			
UPPER CLIFF HOUSE	5348	1136	☐			Gas
MASSIVE CLIFF HOUSE	5353	1131	☐	440		Gas
MENEFEE	5387	1097	☐			
POINT LOOKOUT	5636	848	☐			
MANCOS	6036	448	☐			
UPPER GALLUP	6908	-424	☐			
GREENHORN	7627	-1143	☐			
GRANEROS	7672	-1188	☐			
TWO WELLS	7792	-1308	☐	2982		Gas
PAGUATE	7796	-1312	☐			
UPPER CUBERO	7808	-1324	☐			
LOWER CUBERO	7848	-1364	☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 48N

DEVELOPMENT

ENCINAL	7918	-1434	☐	
Total Depth	7963	-1479	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 592 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SAN JUAN 30-5 97	

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
mud log from ~100' above grhnto td. perf 20' above td. mud logger will call td.	

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

Comments: Location/Tops/Logging - MV/DKNM030N005W20SE2 Avoid I - SJ 30-5 Unit 48M (MV/DK) is located there. Prefer a BHL in O, J, P. Topo could be an issue.

Zones - MV/DKNM030N005W20SE2

General/Work Description - MV/DK PROJECT - LEWIS INCLUDED

9/10/09 Lewis Reserves Added in PEEP wfp

3/23/09 - Economic with additional \$400M for directional.

9/22/09.- Drilling Cost Estimate: Base Line of \$112.07/ft for 532 ft step out, expecting losses (1 add operation day & \$10K of Mud products), casing set at 100 ft TVD in Lewis and 11.6#/ft, L-80 good for production string. added \$10K for stripping land on location. Estimated 13 days. Cost changed to \$119.12/ft. JCedeno.

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #48N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6484.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6484.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #48N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,587.8	4,502.0	Chacra		0.00	
4,268.8	4,183.0	Huerf. Bent.		0.00	
5,721.8	5,636.0	Pt. Lookout		0.00	
7,712.8	7,627.0	Greenhorn		0.00	
6,993.8	6,908.0	Gallup		0.00	
1,349.4	1,346.0	Nacimiento		0.00	
3,595.7	3,510.0	Lewis		0.00	
5,433.8	5,348.0	Upper Cliffhouse		0.00	
5,438.8	5,353.0	Massive Cliffhouse		0.00	
7,933.8	7,848.0	Lower Cubero		0.00	
8,003.8	7,918.0	Encinal		0.00	
5,472.8	5,387.0	Menefee		0.00	
3,513.6	3,428.0	Pictured Cliffs		0.00	
2,905.8	2,830.0	Fruitland		0.00	
2,686.4	2,621.0	Ojo Alamo		0.00	
2,787.6	2,717.0	Kirtland		0.00	
6,121.8	6,036.0	Mancos Shale		0.00	
7,877.8	7,792.0	Two Wells		0.00	
7,881.8	7,796.0	Paguate		0.00	
7,757.8	7,672.0	Graneros		0.00	
7,893.8	7,808.0	Upper Cubero		0.00	

REFERENCE INFORMATION

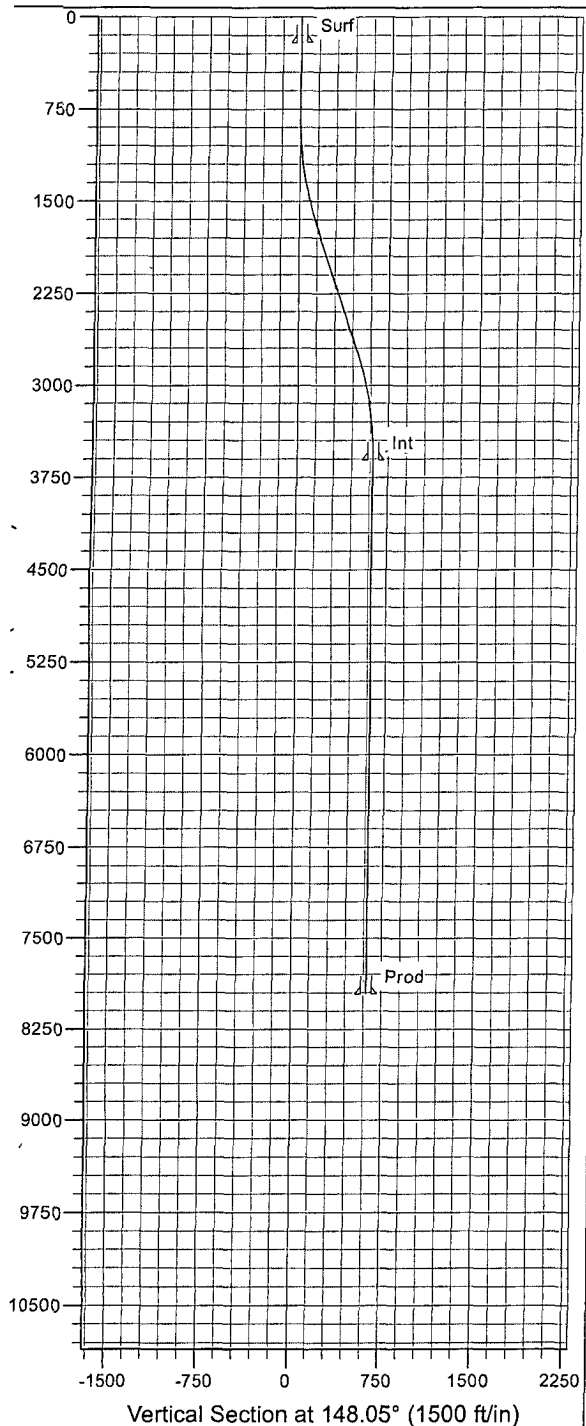
RKB @ 6484.0ft (Original Well Elev)
Ground Elevation 6469.0
Reference Lat: 36° 47' 40.140 N
Reference Long: 107° 22' 24.816 W

Project: San Juan Basin - New Mexico Wells
Site: San Juan 30 Wells
Well: SJ 30-5 #48N
Wellbore: Wellbore #1
Design: Plan #1



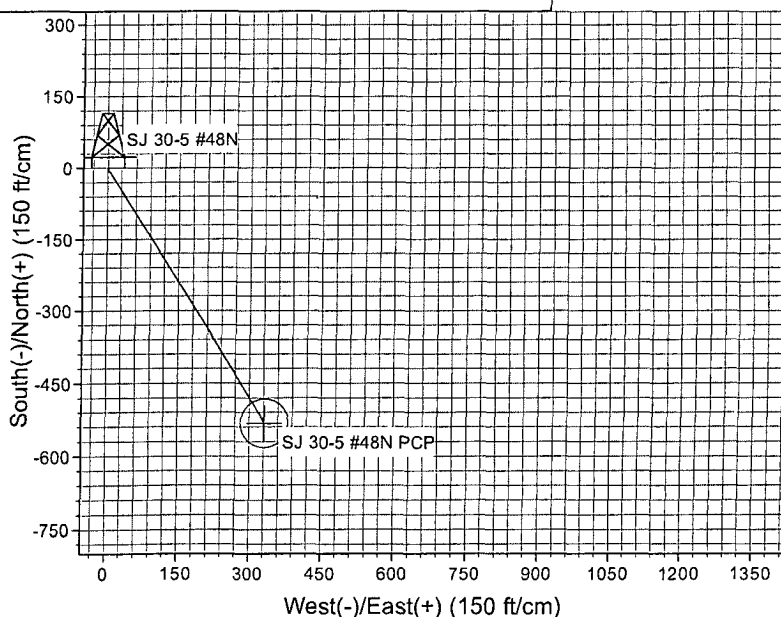
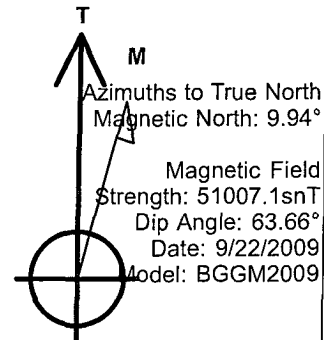
SECTION DETAILS

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	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1722.8	18.46	148.05	1707.0	-125.0	78.0	2.00	148.05	147.4	
4	2772.9	18.46	148.05	2703.0	-407.1	253.9	0.00	0.00	479.8	
5	3695.8	0.00	0.00	3610.0	-532.2	331.9	2.00	180.00	627.2	SJ 30-5 #48N ICP
6	8048.8	0.00	0.00	7963.0	-532.2	331.9	0.00	0.00	627.2	SJ 30-5 #48N PCP



FORMATION TOP DETAILS

TVDP	Path	MD	Path	Formation
1346.0	1349.4			Nacimient
2621.0	2686.4			Ojo Alamo
2717.0	2787.6			Kirtland
2830.0	2905.8			Fruitland
3428.0	3513.6			Pictured Cliffs
3510.0	3595.7			Lewis
4183.0	4268.8			Huerf. Bent.
4502.0	4587.8			Chacra
5348.0	5433.8			Upper Cliffhouse
5353.0	5438.8			Massive Cliffhouse
5387.0	5472.8			Menefee
5636.0	5721.8			Pt. Lookout
6036.0	6121.8			Mancos Shale
6908.0	6993.8			Gallup
7627.0	7712.8			Greenhorn
7672.0	7757.8			Graneros
7792.0	7877.8			Two Wells
7796.0	7881.8			Paguate
7808.0	7893.8			Upper Cubero
7848.0	7933.8			Lower Cubero
7918.0	8003.8			Encinal



Directions from the Post Office
in Blanco, NM to
CONOCOPHILLIPS COMPANY
SAN JUAN 30-5 UNIT 48N
1310' FSL & 740' FEL,
Section 20, T30N, R5W, N.M.P.M.,
Rio Arriba County, New Mexico
Latitude: $36^{\circ} 47' 40.166''$ N
Longitude: $107^{\circ} 22' 26.987''$ 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 6.6 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 (southerly) 2.5 miles,
turn right (southerly) 0.5 miles,
turn right (west) 0.2 miles, continue through location
(SAN JUAN 30-5 UNIT 48M) (southeast) 0.15 miles to newly staked
location twinned with existing location (SAN JUAN 30-5 UNIT 223A)