

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK *Field Management*
Farmington Field Office

Unit Reporting Number
NMNM78419B-DIC NMNM78419A-MV

RCVD FEB 17 '10
OIL CONS. DIV.
DIST. 3

API # 30-039-30869

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 2/16/2010

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENTING
and willfully to make to any department or agency of the United

Example Master Plan Type 3 Bond Numbers NMB-000015 and NMB-000089

FEB 25 2010

NRACD

Hold C104
for Directional Survey
and "As Drilled" plat

RECEIVED

NOV 30 2009

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30869	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 90N
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6579'

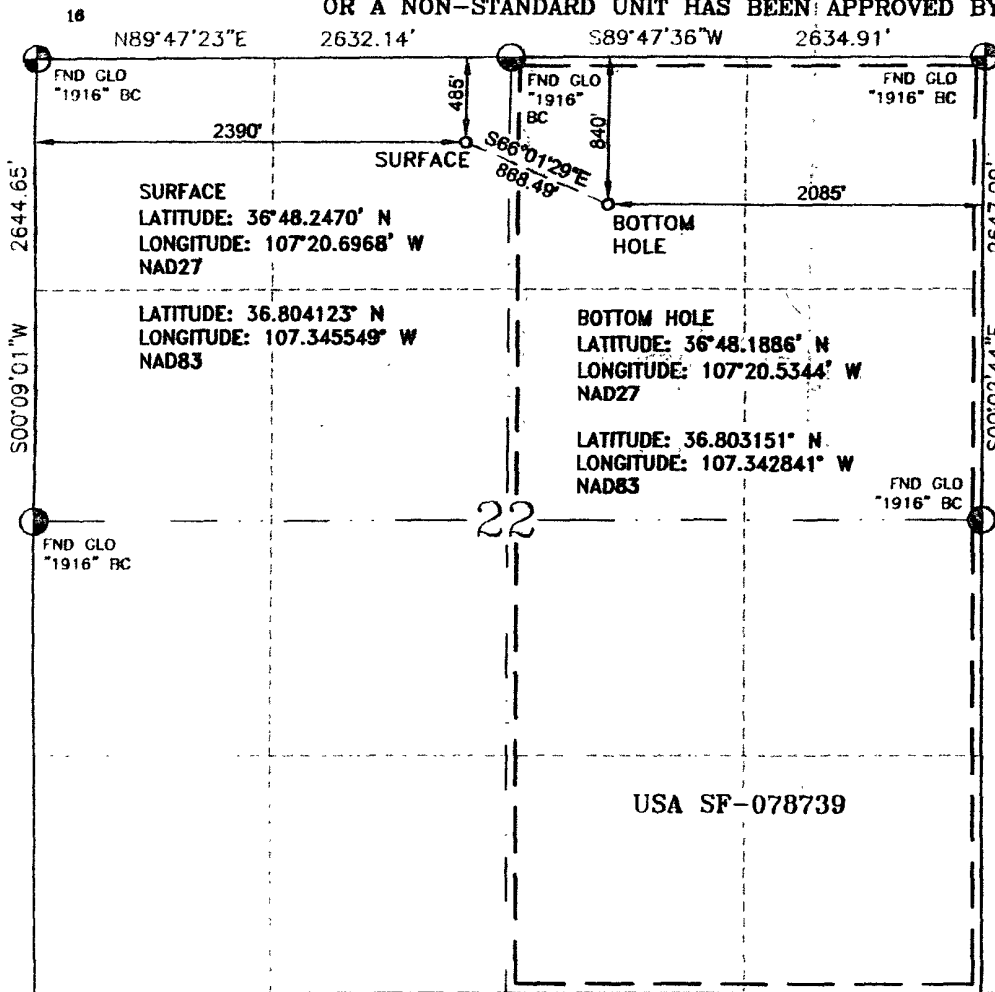
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	22	30-N	5-W		485	NORTH	2390	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
B	22	30-N	5-W		840	NORTH	2085	EAST	RIO ARRIBA
¹² Dedicated Acres DK 320.00 ACRES E/2 MV 320.00 ACRES 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



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.

Tracey N. Monroe 8/19/05
Signature
Tracey N. Monroe
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.

Glen W. Russell
Date of Survey
Signature and Seal of Professional Surveyor
15703
Certificate Number 15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 90N

DEVELOPMENT

Lease:	AFE #: WAN.CDR.8513			AFE \$: 1,744,264.47
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
RON	BLANCO MESAVERDE (PRORATED GAS)
FRR	BASIN DAKOTA (PRORATED GAS)

Location: Surface **Datum Code:** NAD 27 **Directional:**

Latitude: 36.804116 Longitude: -107.344948 X: Y: Section: 22 Range: 005W

Footage X: 2390 FWL Footage Y: 485 FNL Elevation: 6579 (FT) Township: 030N

Tolerance:

Location: Bottom Hole **Datum Code:** NAD 27 **Directional:**

Latitude: 36.803144 Longitude: -107.342240 X: Y: Section: 22 Range: 005W

Footage X: 2085 FEL Footage Y: 840 FNL Elevation: (FT) Township: 030N

Tolerance:

Location Type: Restricted Start Date (Est.): 1/1/2010 Completion Date: Date In Operation:

Formation Data: Assume KB = 6594 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	199	6395	☐			12-1/4 hole. 2 1/2" 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1480	5114	☐			
OJO ALAMO	2634	3960	☐			
KIRTLAND	2835	3759	☐			
FRUITLAND	2894	3700	☐	225		Possible Gas
PICTURED CLIFFS	3510	3084	☐	1125		
LEWIS	3604	2990	☐			
Intermediate Casing	3704	2890	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 870 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4290	2304	☐			
CHACRA	4626	1968	☐			
MASSIVE CLIFF HOUSE	5465	1129	☐	525		Gas
MENEFEE	5509	1085	☐			
POINT LOOKOUT	5707	887	☐			
MANCOS	6137	457	☐			
UPPER GALLUP	7000	-406	☐			
GREENHORN	7734	-1140	☐			
GRANEROS	7785	-1191	☐			
TWO WELLS	7898	-1304	☐	3100		Gas
PAGUATE	7899	-1305	☐			Cubero is primary contributor
UPPER CUBERO	7906	-1312	☐			Per best offset - complete CBRO and 1st sand in CBRL
LOWER CUBERO	7949	-1355	☐			TD 50' below T/CBRL - gives 36' or rat hole - can drill deeper

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 UNIT 90N

DEVELOPMENT

Total Depth	7999	-1405	☐	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	30-5 71M & 90	section 22 30-5
Production	30-5 52 & 52M	section 15 30-5

Logging Program:

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

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

No open hole logs required. Mud log from 100' above Greenhorn to TD - loggers will call TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin - New Mexico Wells
Site: San Juan 30 Wells
Well: SJ 30-5 #90N
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference: Well SJ 30-5 #90N
TVD Reference: RKB @ 6594 0ft (Original Well Elev)
MD Reference: RKB @ 6594 0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,298.7	6,137.0	Mancos		0.00	
4,787.7	4,626.0	Chacra		0.00	
7,161.7	7,000.0	Upper Gallup		0.00	
3,765.7	3,604.0	Lewis		0.00	
8,059.7	7,898.0	Two Wells		0.00	
5,670.7	5,509.0	Menefee		0.00	
3,671.7	3,510.0	Pictured Cliffs		0.00	
5,626.7	5,465.0	Mass Cliffhouse		0.00	
7,895.7	7,734.0	Greenhorn		0.00	
8,160.7	7,999.0	TD		0.00	
8,060.7	7,899.0	Paguate		0.00	
7,946.7	7,785.0	Graneros		0.00	
4,451.7	4,290.0	Huerfano Bentonite		0.00	
5,868.7	5,707.0	Point Lookout		0.00	
3,054.2	2,894.0	Fruitland		0.00	
8,110.7	7,949.0	Lower Cubero		0.00	
2,994.2	2,835.0	Kirtland		0.00	
2,786.6	2,634.0	Ojo		0.00	
8,067.7	7,906.0	Upper Cubero		0.00	
1,514.3	1,480.0	Nacimiento		0.00	

REFERENCE INFORMATION

RKB @ 6594.0ft (Original Well Elev)
Ground Elevation 6579.0
Reference Lat: 36° 48' 14.820 N
Reference Long: 107° 20' 41.808 W

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

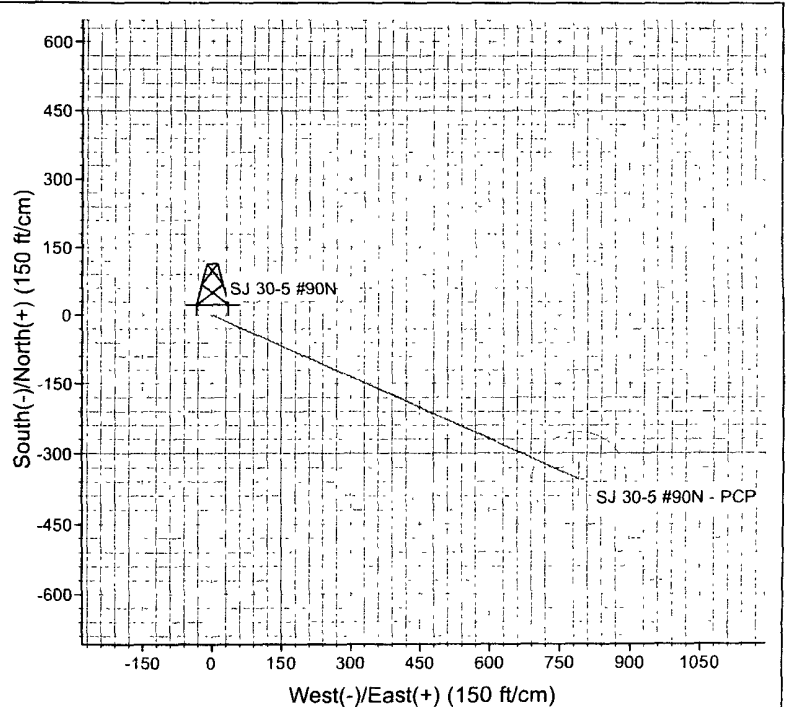
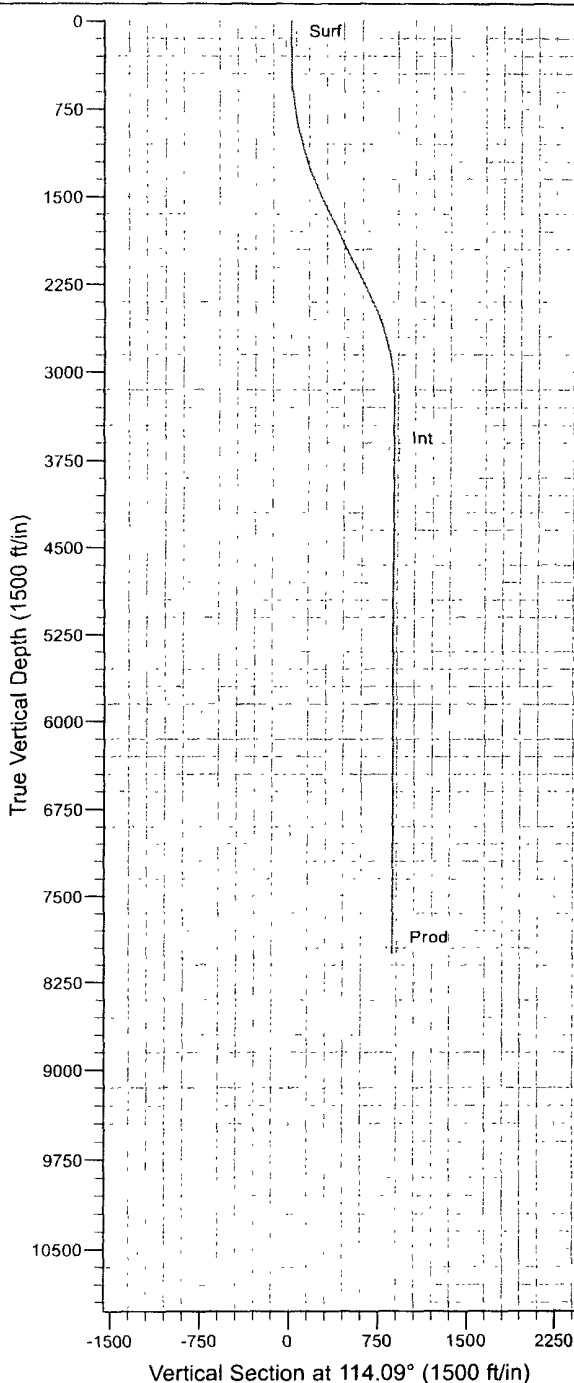
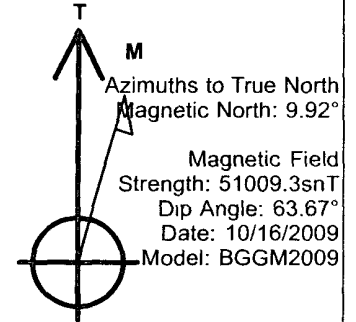
ConocoPhillips

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	1609.1	25.78	114.09	1566.0	-116.4	260.3	2.00	114.09	285.2	
4	2512.3	25.78	114.09	2379.3	-276.8	618.9	0.00	0.00	678.0	
5	3371.7	0.00	0.00	3210.0	-354.4	792.5	3.00	180.00	868.1	SJ 30-5 #90N - ACP
6	3865.7	0.00	0.00	3704.0	-354.4	792.5	0.00	0.00	868.1	SJ 30-5 #90N - ICP
7	8160.7	0.00	0.00	7999.0	-354.4	792.5	0.00	0.00	868.1	SJ 30-5 #90N - PCP

FORMATION TOP DETAILS

TVDP	MD	Formation
1480.0	1514.3	Nacimiento
2634.0	2786.6	Ojo
2835.0	2994.2	Kirtland
2894.0	3054.2	Fruitland
3510.0	3671.7	Pictured Cliffs
3604.0	3765.7	Lewis
4290.0	4451.7	Huerfano Bentonite
4626.0	4787.7	Chacra
5465.0	5626.7	Mass. Cliffhouse
5509.0	5670.7	Menefee
5707.0	5868.7	Point Lookout
6137.0	6298.7	Mancos
7000.0	7161.7	Upper Gallup
7734.0	7895.7	Greenhorn
7785.0	7946.7	Graneros
7898.0	8059.7	Two Wells
7899.0	8060.7	Paguate
7906.0	8067.7	Upper Cubero
7949.0	8110.7	Lower Cubero
7999.0	8160.7	TD



Directions from the Post Office
in Blanco, NM to
CONOCOPHILLIPS COMPANY
SAN JUAN 30-5 UNIT 90N
485' FNL & 2390' FWL,
Section 22, T30N, R5W, N.M.P.M.,
RIO ARRIBA, NEW MEXICO
Latitude: 36° 48' 14.842" N
Longitude: 107° 20' 43.976" 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 (southerly) for 0.8 miles to y-intersection,
Stay left (southeasterly) 2.9 miles to y-intersection,
Stay left (east) 0.1 miles,
Turn left (northeasterly) 0.4 miles to y-intersection,
Stay right (east) 0.8 miles,
Turn right (south) 300' to newly staked location twinned with existing
location (San Juan 30-5 Unit 71P)