

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

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 NM-012735	APR 30 2010
1b. Type of Well GAS		Unit Reporting Number NMMA-75421A-NV	of Land Management Farmington Field Office
2. Operator ConocoPhillips Company		7. Unit Agreement Name San Juan 31-6 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name RCVD MAY 26 '10	
4. Location of Well Surf: Unit A(NENE), 1026' FNL & 689' FEL Bottomhole: Unit H(SENE), 1460' FNL & 710' FEL Surf: Latitude: 36.845958° N (NAD83) Longitude: 107.497591° W Bottomhole: Latitude: 36.844765° N (NAD83) Longitude: 107.497654° W		9. Well Number 3N	OIL CONS. DIV.
		10. Field, Pool, Wildcat Blanco MV / Basin DK	
		11. Sec., Twn, Rge, Mer. (NMPM) Sec. 6, T30N, R6W	
		API # 30-039-	30964
14. Distance in Miles from Nearest Town 58 miles / Bloomfield		12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 689'		17. Acres Assigned to Well 319.55 E/2 - MV/DK	
16. Acres in Lease 639.40			
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 108' from San Juan 31-6 Unit 3 (P&A) MV			
19. Proposed Depth 7936'		20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6433' GL		22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached			
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)		<u>4/30/2010</u> Date	

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 ES-0048 and ES-0085

JUN 04 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 D 70

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

A gas recovery unit may or may not be used on this location. Hold C104

for Directional Survey

NOT RECORDED 24 HRS
PRIOR TO CASING & CEMENT

District I
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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30964	² Pool Code 71599/72319	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 31328	⁵ Property Name SAN JUAN 31-6 UNIT	⁶ Well Number 3N
⁷ OGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6433

¹⁰ SURFACE LOCATION

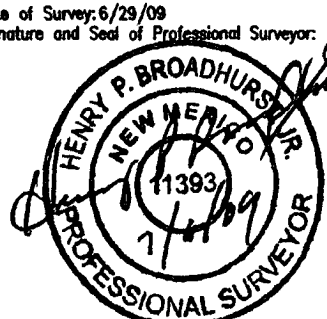
UL or lot no. A	Section 6	Township 30-N	Range 6-W	Lot Idn (8)	Feet from the 1026	North/South line NORTH	Feet from the 689	East/West line EAST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. H	Section 6	Township 30-N	Range 6-W	Lot Idn 1460	Feet from the 1460	North/South line NORTH	Feet from the 710	East/West line EAST	County RIO ARriba
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¹² Dedicated Acres 319.55 E/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

¹⁶ LOT 11	GLO 1914	S 89°41'12" W WEST 2639.3' 2640.0'	(M) (R) 1914	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. <i>Tracey N. Monroe</i> Signature Tracey N. Monroe Printed Name Staff Reg. Tech. Title and E-mail Address 7/9/09 Date
LOT 10		LOT 9 WELL FLAG NAD 83 LAT: 36.845958° N LONG: 107.497591° W NAD 27 LAT: 36°50.757154' N LONG: 107°29.819144' W	1460' 1026' 689'	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: 6/29/09 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393
		S 2°15'20" W 434.7' BOTTOM HOLE NAD 83 LAT: 36.844765° N LONG: 107.497654° W NAD 27 LAT: 36°50.685576° N LONG: 107°29.822965° W	710'	
		E/2 DEDICATED ACREAGE USA NM-012735 SECTION 6, T-30-N, R-6-W	GLO 1914 S 0°05' E S 0°28'28" E	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 3N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9105				AFE \$: 1,717,332.06	
Field Name: SAN JUAN 30-6 UNIT		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: 36.845952	Longitude: -107.496986	X:	Y:	Section: 06	Range: 006W		
Footage X: 689 FEL	Footage Y: 1026 FNL	Elevation: 6433	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.844759	Longitude: -107.497049	X:	Y:	Section: 06	Range: 006W		
Footage X: 710 FEL	Footage Y: 1460 FNL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6449 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6249	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.	
NACIMIENTO	1154	5295	☐				
OJO ALAMO	2369	4080	☐				
KIRTLAND	2465	3984	☐				
FRUITLAND	2871	3578	☐			Possible Gas	
PICTURED CLIFFS	3365	3084	☐				
LEWIS	3463	2986	☐				
Intermediate Casing	3563	2886	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 817 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4093	2356	☐				
CHACRA	4490	1959	☐				
UPPER CLIFF HOUSE	5221	1228	☐			Gas; Est. Top Perf - 5221 (1226)	
MASSIVE CLIFF HOUSE	5273	1176	☐	504		Gas	
MENEFEE	5340	1109	☐				
POINT LOOKOUT	5659	790	☐				
MANCOS	6041	408	☐				
UPPER GALLUP	6913	-464	☐				
GREENHORN	7651	-1202	☐				
GRANEROS	7705	-1256	☐				
TWO WELLS	7817	-1368	☐	3306		Gas	
PAGUATE	7828	-1379	☐				
UPPER CUBERO	7838	-1389	☐				
LOWER CUBERO	7872	-1423	☐			Est. Btm Perf - 7914 (-1467) based on offset wells	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 3N

DEVELOPMENT

ENCINAL	7936	-1487	☐	TD - T/ENCN
Total Depth	7936	-1487	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 595 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 31-6 207	30N 6W 6 SE NW NE
Production	Seymour 1	30N 6W 6 SW NE NE
Production	SJ 31-6 3R	30N 6W 6 NE SW NE
Production	SJ 31-6 301	30N 6W 6 SW NW 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 GRHN to TD - mudlogger will call TD.	

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

Comments: Location (East) ...

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 31-6 #3N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6449.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6449.0ft (H&P RIGS)
Site:	San Juan 31 Wells	North Reference:	True
Well:	SJ 31-6 #3N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,982.3	6,913.0	Upper Gallup		0.00		
7,897.3	7,828.0	Paguate		0.00		
3,434.3	3,365.0	Pictured Cliffs		0.00		
1,182.9	1,154.0	Nacimiento		0.00		
7,720.3	7,651.0	Greenhorn		0.00		
5,290.3	5,221.0	Upper Cliffhouse		0.00		
4,162.3	4,093.0	Huerfano Bentonite		0.00		
7,941.3	7,872.0	Lower Cubero		0.00		
5,728.3	5,659.0	Point Lookout		0.00		
4,559.3	4,490.0	Chacra		0.00		
6,110.3	6,041.0	Mancos		0.00		
2,940.3	2,871.0	Fruitland		0.00		
3,532.3	3,463.0	Lewis		0.00		
5,409.3	5,340.0	Menefee		0.00		
5,342.3	5,273.0	Mass Cliffhouse		0.00		
2,438.3	2,369.0	Ojo		0.00		
7,774.3	7,705.0	Graneros		0.00		
7,886.3	7,817.0	Two Wells		0.00		
2,534.3	2,465.0	Kirtland		0.00		
7,907.3	7,838.0	Upper Cubero		0.00		

REFERENCE INFORMATION

Project: San Juan Basin - New Mexico Well

Site: San Juan 31 Wells

Well: SJ 31-6 #3N

Wellbore: Principal Wellbore

Design: Plan #1

RKB @ 6449.0ft (H&P RIGS)
Ground Elevation 6433.0
Reference Lat: 36° 50' 45.429 S
Reference Long: 107° 29' 49.149 W

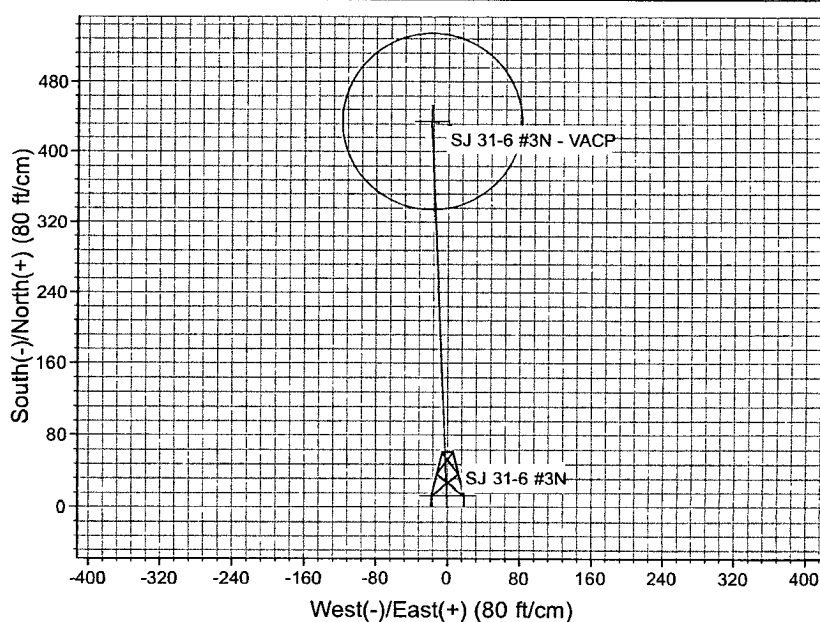
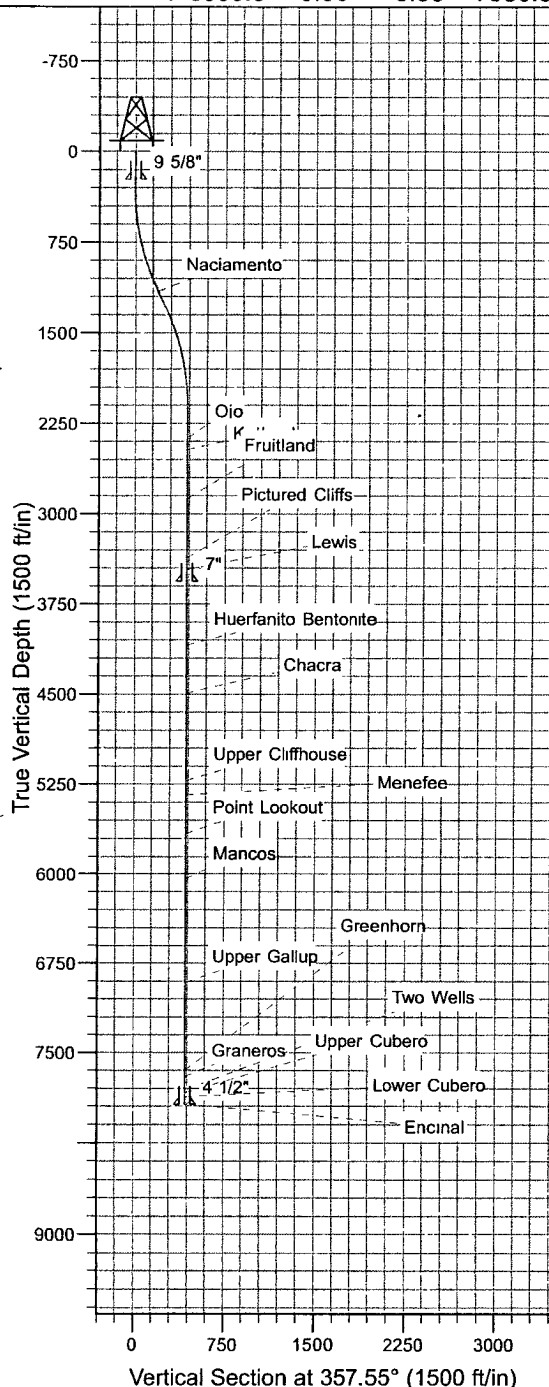
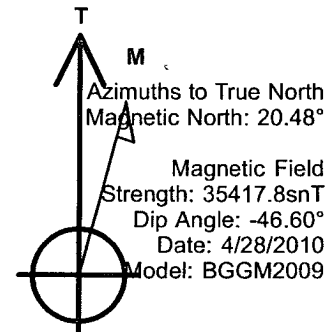
ConocoPhillips

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	1149.1	24.87	357.55	1123.3	177.0	-7.6	3.00	357.55	177.2	
4	1340.2	24.87	357.55	1296.7	257.3	-11.0	0.00	0.00	257.5	
5	2169.3	0.00	0.00	2100.0	434.3	-18.6	3.00	180.00	434.7	SJ 31-6 #3N - VACP
6	3632.3	0.00	0.00	3563.0	434.3	-18.6	0.00	0.00	434.7	SJ 31-6 #3N - ICP
7	8005.3	0.00	0.00	7936.0	434.3	-18.6	0.00	0.00	434.7	SJ 31-6 #3N - PCP

FORMATION TOP DETAILS

VDP	MD	Path	Formation
1154.0	1182.9		Nacimiento
2369.0	2438.3		Ojo
2465.0	2534.3		Kirtland
2871.0	2940.3		Fruitland
3365.0	3434.3		Pictured Cliffs
3463.0	3532.3		Lewis
4093.0	4162.3		Huerfanito Bentonite
4490.0	4559.3		Chacra
5221.0	5290.3		Upper Cliffhouse
5273.0	5342.3		Mass. Cliffhouse
5340.0	5409.3		Menefee
5659.0	5728.3		Point Lookout
6041.0	6110.3		Mancos
6913.0	6982.3		Upper Gallup
7651.0	7720.3		Greenhorn
7705.0	7774.3		Graneros
7817.0	7886.3		Two Wells
7828.0	7897.3		Paguate
7838.0	7907.3		Upper Cubero
7872.0	7941.3		Lower Cubero



CONOCOPHILLIPS COMPANY

SAN JUAN 31-6 UNIT #3N
1026' FNL, 689' FEL
SECTION 6, T-30-N, R-6-W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
NAD 83 LAT.: 36.845958°N LONG.: 107.497591°W
ELEV.: 6433 NAVD88
NO NEW ACCESS

FROM THE INTERSECTION OF HWY. 550 AND HWY. 64 IN
BLOOMFIELD, NM:

- GO EAST ON HWY. 64 FOR 37.7 MI. TO MILE POST 102. TURN LEFT ON STATE HWY. 527 (SIMMS MARINA HWY).
- GO 8.0 MI. NORTH ON HWY. 527. TURN RIGHT ONTO ROSA ROAD.
- GO 6.7 MI. NORTHEAST ON ROSA ROAD. TURN LEFT ON C.R. 510.
- GO 5.3 MI. WEST ON MAIN ROAD C.R. 510. STAY STRAIGHT AT INTERSECTION.
- GO 0.5 MI. WEST AND SOUTH. TURN LEFT ONTO PLUGGED & ABANDONED WELL: SJ 31-6 #3. NEW WELL IS TWINNED HERE.