

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JAN 29 2009
Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078999 Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips	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 9. Well Number 16N	
4. Location of Well Surf: Unit A (NENE), 1306' FNL & 371' FEL BHL: Unit E (SWNW), 1930' FNS & 650' FWL Surf: Latitude: 36.85971 N Longitude: 107.47847 W BHL: Latitude: 36.85801 N Longitude: 107.47499 W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Surf: Sec. 32, T31N, R6W BHL: Sec. 33, T31N, R6W API # 30-039-30668	
14. Distance in Miles from Nearest Town 48 miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 371'	17. Acres Assigned to Well 320.00 (W/2)	
16. Acres in Lease 2,560.000	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 709' from the San Juan 31-6 Unit 19 (MV)	
19. Proposed Depth 7908'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6329' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>James Gardenhire</u> James Gardenhire (Regulatory Technician)	1-29-09 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

Hold C104
for Directional Survey
and "As Drilled" plat

NMOCDB

MAR 09 2009

DISTRICT I
1625 N French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Ave., Artesia, N.M. 88210

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

DISTRICT IV
1220 South 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

JAN 29 2009

☐ AMENDED REPORT

Oil and Gas Management
Farmington Field Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-3010108	² Pool Code 71599/72319	Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code A650114 A650263 31328	³ Property Name SAN JUAN 31-6 UNIT	⁶ Well Number 16N
⁷ GRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Elevation 6329'

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
A	32	31-N	6-W		1306	NORTH	371	EAST	RIO ARRIBA

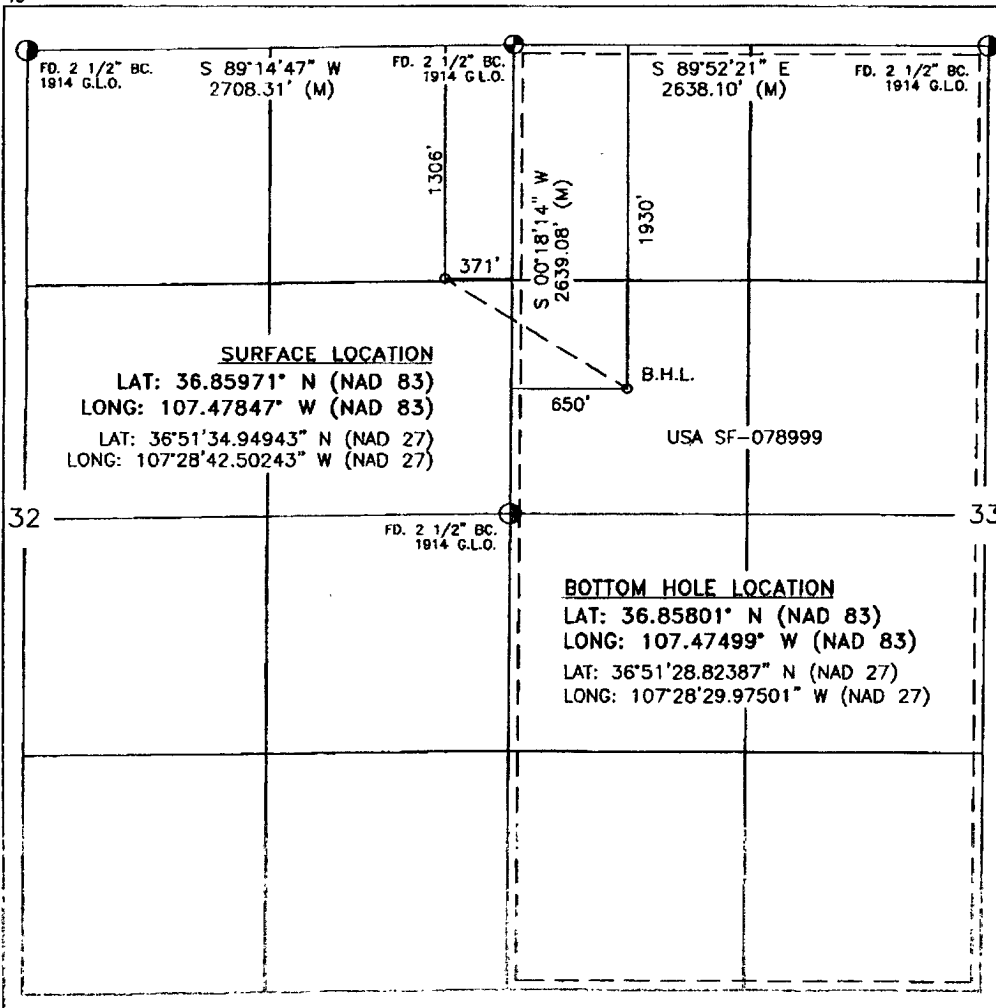
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	33	31-N	6-W		1930	NORTH	650	WEST	RIO ARRIBA

¹² Dedicated Acres W/2 - 320 ACRES	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

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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.

Crystal Tafoya 8/26/08
Signature Date
Crystal Tafoya 8-26-08
Printed Name

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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 knowledge and belief.

JULY 9, 2008
Date of Survey
Signature and Seal of Professional Surveyor:
Roy A. Rush
Professional Surveyor
8894
Certificate Number

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PD08.A7		
SAN JUAN 31 - 6 # 16 N	DATE	8/4/2008
WELL NAME		
WELL NAME		

COORDINATES

SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
H 32	31 N	6 W	36.55971 N	107.47847 W

COUNTY

RIO ARRIBA

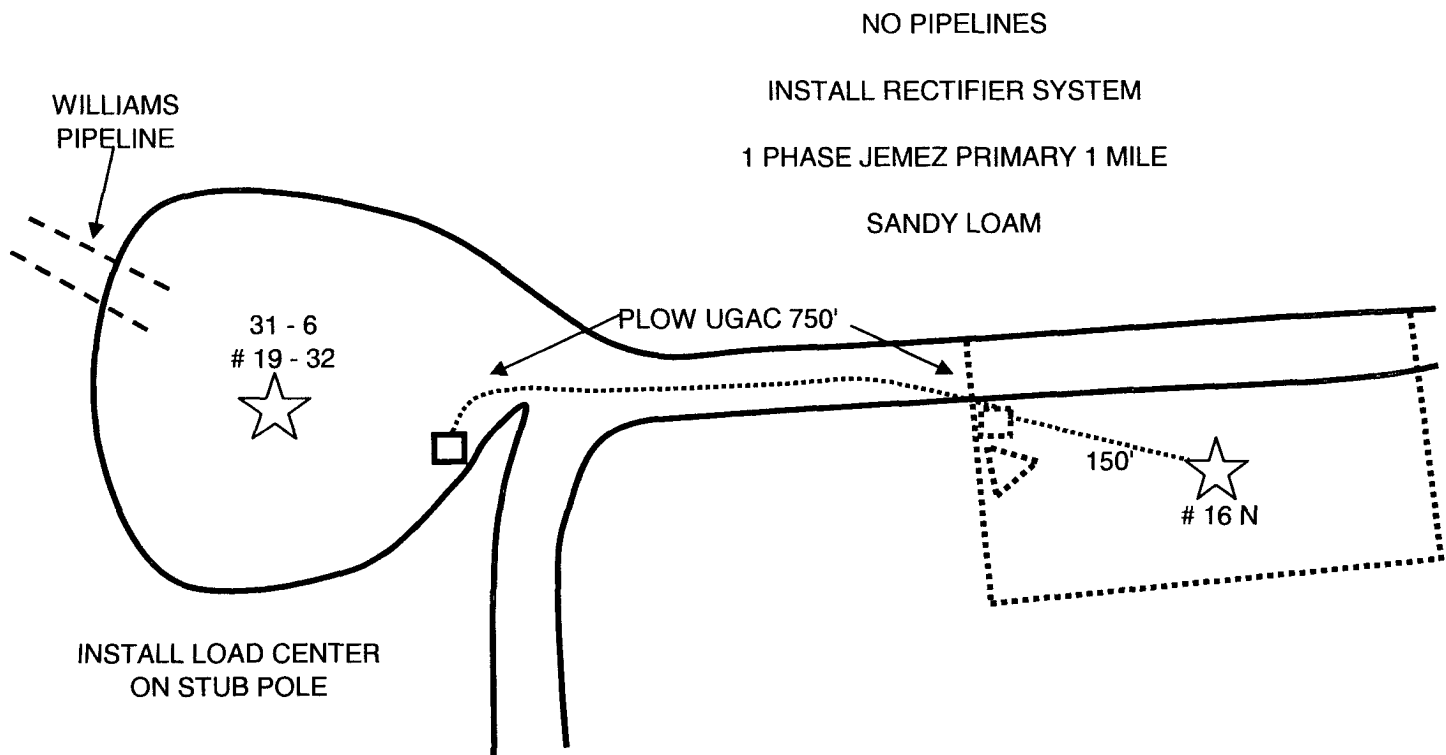
RECTIFIER
SOLAR
GROUND BED
240 V METER POLE
480 V METER POLE
D C CABLES
A C CABLES
PRIMARY POWER
DISTANCE TO POWER
UNDERGROUND
PUMPJACK
WATER PUMP

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
30/12	X			
	X			
# 8	200'			
# 8	850'			
			JEMEZ	
			1 MILE	

COMMENTS

1 PHASE JEMEZ PRIMARY 1 MILE
SANDY LOAM
INSTALL SINGLE WELL RECTIFIER SYSTEM
INSTALL LOAD CENTER ON STUB POLW
PLOW UGAC 750'

WELL NAME	SAN JUAN 31 - 6 # 16 N
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TANK 	SEP OR DEHY 	SOLAR 	METER POLE 	PUMP JACK 	GND/BED EXISTING CABLE   - - - - -
RECT  	PIT 	WELL 	proposed solar/gb 	PROPOSED CABLE • • • • •	POWER LINE - - - - -
			FOREIGN PL - - - - -		CONOCO PL =====

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 16N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8119				AFE \$:	
Field Name: hBR_SAN JUAN		Rig: H&P Rig 282		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		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							
Latitude: 36.859704	Longitude: -107.477865	X:	Y:	Section: 32		Range: 006W	
Footage X: 371 FEL	Footage Y: 1306 FNL	Elevation: 6329	(FT)	Township: 031N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27							
Latitude: 36.858004	Longitude: -107.474385	X:	Y:	Section: 33		Range: 006W	
Footage X: 650 FWL	Footage Y: 1930 FNL	Elevation:	(FT)	Township: 031N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6344 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6144	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.	
OJO ALAMO	2323	4021	☐				
KIRTLAND	2443	3901	☐				
FRUITLAND	2846	3498	☐			Possible Gas	
PICTURED CLIFFS	3306	3038	☐				
LEWIS	3386	2958	☐				
Intermediate Casing	4000	2344	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 952 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4037	2307	☐				
CHACRA	4454	1890	☐				
MASSIVE CLIFF HOUSE	5247	1097	☐	330		Gas	
MENEFEE	5286	1058	☐				
POINT LOOKOUT	5558	786	☐				
MANCOS	5943	401	☐	2800			
UPPER GALLUP	6851	-507	☐				
GREENHORN	7573	-1229	☐				
GRANEROS	7629	-1285	☐				
PAGUATE	7748	-1404	☐				
UPPER CUBERO	7753	-1409	☐				
LOWER CUBERO	7798	-1454	☐				
ENCINAL	7868	-1524	☐				
Total Depth	7908	-1564	☐			6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 533 cuft. Circulate cement a minimum of 100' inside the previous casing string.	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 16N

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
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Mud log from ~100' above the Greenhorn to TD. Mud loggers will call final 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 31-6 #16N
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6344.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6344.0ft (Original Well Elev)
Site:	San Juan 31 Wells	North Reference:	True
Well:	SJ 31-6 #16N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,438.1	2,323.0	Ojo		0.00		
2,569.6	2,443.0	Kirtland		0.00		
3,011.2	2,846.0	Fruitland		0.00		
3,514.3	3,306.0	Pictured Cliffs		0.00		
3,599.5	3,386.0	Lewis		0.00		
4,261.6	4,037.0	Huerfano Bentonite		0.00		
4,678.6	4,454.0	Chacra		0.00		
5,471.6	5,247.0	Mass Cliffhouse		0.00		
5,510.6	5,286.0	Menefee		0.00		
5,782.6	5,558.0	Point Lookout		0.00		
6,167.6	5,943.0	Mancos		0.00		
7,075.6	6,851.0	Upper Gallup		0.00		
7,797.6	7,573.0	Greenhorn		0.00		
7,853.6	7,629.0	Graneros		0.00		
7,972.6	7,748.0	Paguate		0.00		
7,977.6	7,753.0	Upper cubero		0.00		
8,022.6	7,798.0	Lower Cubero		0.00		
8,132.6	7,908.0	Encinal		0.00		

**Directions from the post office in Blanco, New Mexico, to the
Conoco/Phillips Company**

San Juan 31-6 Unit #16N well location

**1306' FNL 371' FEL Section 32, T31N R6W, NMPM, in Rio Arriba County,
New Mexico**

From the post office in Blanco, New Mexico (Lat. 36.72361° N, Long. 107.82806° W):

Travel east on Hwy 64 28.7 mi to Hwy 527 (Simms Mesa Road; Lat. 36.70194° N, Long. 107.38056° W).

Turn left on Hwy 527 and travel northwesterly 8.0 mi to the Rosa Road (Lat. 36.77167° N, Long. 107.46722° W).

Turn right on the Rosa Road and travel northerly and northeasterly 6.7 mi, across La Jara Wash to a fork in the road just past a large pigging facility on the top of the hill (Lat. 36.83222° N, 107.43000° W).

Take the fork to the right and travel northwesternly and following this road as it bears northwesterly 0.95 mi to a road junction (Lat. 36.51716° N, Long. 107.28188° W).

Turn left on this road and travel westernly 0.5 mi to the new access on the south side of the road (Lat. 36.51608° N, Long. 107.28711° W).

The new access continues southwesternly then curves back southeasternly 210' to the proposed restaked San Juan 31-6 Unit #16N well location (Lat. 36.98962° N, Long. 107.48857° W).