

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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FEB 09 2009

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-078917
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator ConocoPhillips	7. Unit Agreement Name San Juan 29-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name
4. Location of Well Surf: Unit F (SENW), 2431' FNL & 1706' FWL BHL: Unit E (SWNW), 1740' FNL & 450' FWL Surf: Latitude: 36.682591 N Longitude: 107.329992 W BHL: Latitude: 36.684518 N Longitude: 107.334276 W	9. Well Number 90N 10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) F Surf: Sec. 35, T29N, R5W E BHL: Sec. 35, T29N, R5W API # 30-039-30672
14. Distance in Miles from Nearest Town 44 miles/Bloomfield	12. County Rio Arriba
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 860'	
16. Acres in Lease 2,379.360	17. Acres Assigned to Well 320.00 (W/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 338' from the San Juan 29-5 Unit 90M (DK/MV)	
19. Proposed Depth 8895' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 7462' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>James Gardenhire</u> James Gardenhire (Regulatory Technician)	Date <u>2-9-09</u>

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

Hold C104

for Directional Survey
and "As Drilled" plat

APR 07 2009

NMOCD

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

DISTRICT II
1301 W. 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, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, N.M. 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

*API Number 30-039- <u>32072</u>		*Pool Code 71599/72319	*Pool Name DAKOTA / MESA VERDE
*Property Code 31325	*Property Name SAN JUAN 29-5 UNIT		*Well Number 90N
*GRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY		*Elevation 7462

¹⁰ Surface Location

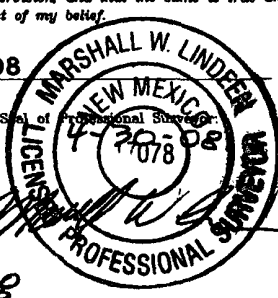
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	35	29 N	5 W		2431	NORTH	1706	WEST	RIO ARRIBA

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
E	35	29 N	5 W		1740	NORTH	450	WEST	RIO ARRIBA

¹² Dedicated Acres 320 (W/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 S 89°50' E (R) 5280' (R) 1740' 450' 1706' 2431' NAD 83 LAT: 36.682591° N LONG: 107.329992° W NAD 27 LAT: 36° 40.9550' N LONG: 107° 19.7635' W SECTION 35 USA SF-078917 NAD 83 LAT: 36.684518° N LONG: 107.334276° W NAD 27 LAT: 36° 41.0706' N LONG: 107° 20.0205' W N 0°03' E (R) S 89°52' E (R)		5282.64' (R) 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>Crystal Walker</i> 5/1/08 Signature Date Crystal Walker 5-1-08 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. 4/07/08 Date of Survey Signature and Seal of Professional Surveyor  17078 Certificate Number S 0°03' W (R)
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○ = SURFACE LOCATION
● = BOTTOM HOLE LOCATION

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PD07.LE		
SAN JUAN 29 - 5 # 90 N		DATE 5/1/2008
WELL NAME	29-5 # 90 M	
WELL NAME		

COORDINATES

SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
F 35	29 N	5 W	36 40.9550 N	107 19.7635 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

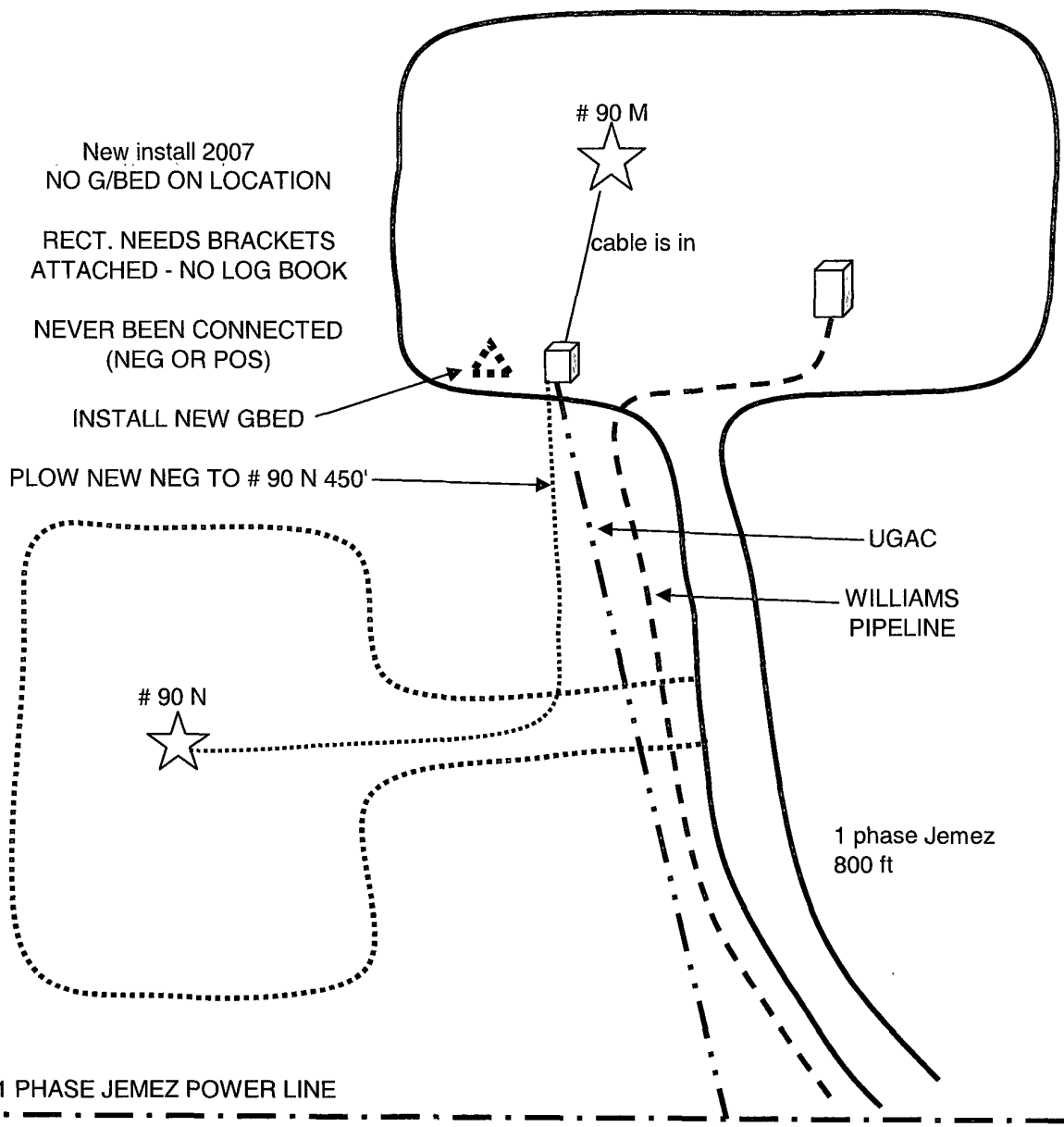
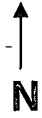
WATER PUMP

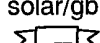
SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
40/16		X		
	X			
# 8	500'			
			JEMEZ	
			800 ft	

COMMENTS

Install neg to new well - install new GB - tie in the new G/B

WELL NAME	SAN JUAN 29 - 5 # 90 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 	

RECEIVED

FEB 17 2009

ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

Bureau of Land Management
Farmington Field Office
DEVELOPMENT

San Juan Business Unit

SAN JUAN 29-5 UNIT 90N

Lease:		AFF #: WAN.CDR.7464				AFF \$:	
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: Prabowo, Wahyu		Phone: +1-505-326-9797		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: 36.682583	Longitude: -107.329391	X:	Y:	Section: 35		Range: 005W	
Footage X: 1706 FWL	Footage Y: 2431 FNL	Elevation: 7462	(FT)	Township: 029N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27							
Latitude: 36.684510	Longitude: -107.333675	X:	Y:	Section: 35		Range: 005W	
Footage X: 450 FWL	Footage Y: 1740 FNL	Elevation:	(FT)	Township: 029N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2010		Completion Date:		Date In Operation:	
Formation Data: *Assume KB = 7477 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	230	7247	☐			12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 181 cuft. Circulate cement to surface.	
OJO ALAMO	3742	3735	☐				
KIRTLAND	3857	3620	☐				
FRUITLAND	4097	3380	☐			Possible Gas	
PICTURED CLIFFS	4419	3058	☐				
LEWIS	4582	2895	☐				
Intermediate Casing	4682	2795	☐			8 3/4" Hole. 7", 23 ppf, J-55, STC Casing. Cement with 1115 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	5062	2415	☐				
CHACRA	5417	2060	☐				
UPPER CLIFF HOUSE	6012	1465	☐			Gas	
MASSIVE CLIFF HOUSE	6259	1218	☐	900		Gas	
MENEFEE	6302	1175	☐				
POINT LOOKOUT	6604	873	☐				
MANCOS	6942	535	☐				
UPPER GALLUP	7820	-343	☐				
GREENHORN	8574	-1097	☐				
GRANEROS	8629	-1152	☐				
TWO WELLS	8699	-1222	☐	1400		Gas	
UPPER CUBERO	8750	-1273	☐				
LOWER CUBERO	8810	-1333	☐				
OAK CANYON	8878	-1401	☐				
ENCINAL	8894	-1417	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-5 UNIT 90N

DEVELOPMENT

Total Depth	8895	-1418	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 574 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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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. Est bottom perf ~20' above the est 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 29-5 #90N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7477.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 7477.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-5 #90N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
230.0	230.0	9 5/8"	9.625	12.250	
4,952.6	4,682.0	7"	7.000	8.750	
9,165.6	8,895.0	4 1/2"	4.500	6.250	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,975.6	3,742.0	Ojo Alamo		0.00		
4,100.4	3,857.0	Kirtland		0.00		
4,358.0	4,097.0	Fruitland		0.00		
4,688.7	4,419.0	Pictured Cliffs		0.00		
4,852.5	4,582.0	Lewis		0.00		
5,332.6	5,062.0	Huerfano Bentonite		0.00		
5,687.6	5,417.0	Chacra		0.00		
6,282.6	6,012.0	Upper Cliffhouse		0.00		
6,529.6	6,259.0	Massive Cliffhouse		0.00		
6,572.6	6,302.0	Menefee		0.00		
6,874.6	6,604.0	Pt Lookout		0.00		
7,212.6	6,942.0	Mancos		0.00		
8,090.6	7,820.0	Gallup		0.00		
8,844.6	8,574.0	Greenhorn		0.00		
8,899.6	8,629.0	Graneros		0.00		
8,969.6	8,699.0	Two Wells		0.00		
9,020.6	8,750.0	Upper Cubero		0.00		
9,080.6	8,810.0	Lower Cubero		0.00		
9,148.6	8,878.0	Oak Canyon		0.00		
9,164.6	8,894.0	Encinal		0.00		

CONOCOPHILLIPS COMPANY
SAN JUAN 29-5 UNIT 90N
2431' FNL & 1706' FWL (SURFACE)
1740' FNL & 450' FWL (BOTTOM)
LATITUDE: 36.682591° N
LONGITUDE: 107.329992° W
NAD 83
SECTION 35, T-29-N, R-5-W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXCIO

FROM THE INTERSECTION OF U.S. HIGHWAY 64 AND NORTH FIRST STREET
IN BLOOMFIELD, NEW MEXICO.

TRAVEL EASTERLY ON U.S. HIGHWAY 64 FOR 41.2 MILES.

TURN RIGHT ONTO FOREST ROAD 314 AND

PROCEED SOUTHERLY 2.5 MILES.

TURN RIGHT & TRAVEL SOUTHWESTERLY 0.1 MILE

TURN RIGHT AND PROCEED NORTHWESTERLY 0.1 MILE TO
THE PROPOSED WELL LOCATION