

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOV 12 2008

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management
Albuquerque Field Office

RECEIVED

NOV 12 2008

NOV 12 2008

1a. Type of Work DRILL	5. Lease Number USA-SF-078096
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company	7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Mudge B
	9. Well Number #100
4. Location of Well Unit N (SESW), 1068' FSL & 2376' FWL Latitude 36.88017 N Longitude 107.99706 W	10. Field, Pool, Wildcat Basin Fruitland Coal
	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 21, T31N, R11W API # 30-045- 34846
14. Distance in Miles from Nearest Town 6 miles/Aztec, NM	12. County San Juan
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1068'	
16. Acres in Lease 2512	17. Acres Assigned to Well 302.99 (S/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 590' from Mudge LS #36 - PC	
19. Proposed Depth 2657'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5876' GR	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: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	<u>11/10/08</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 2

Bond Numbers ES-0048 and ES-0085



H₂S POTENTIAL EXIST

DEC 17 2008

NMOC

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

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, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-348410		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 37514	*Property Name MUDGE B		*Well Number 100
*GRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY		*Elevation 5876'

¹⁰ Surface Location

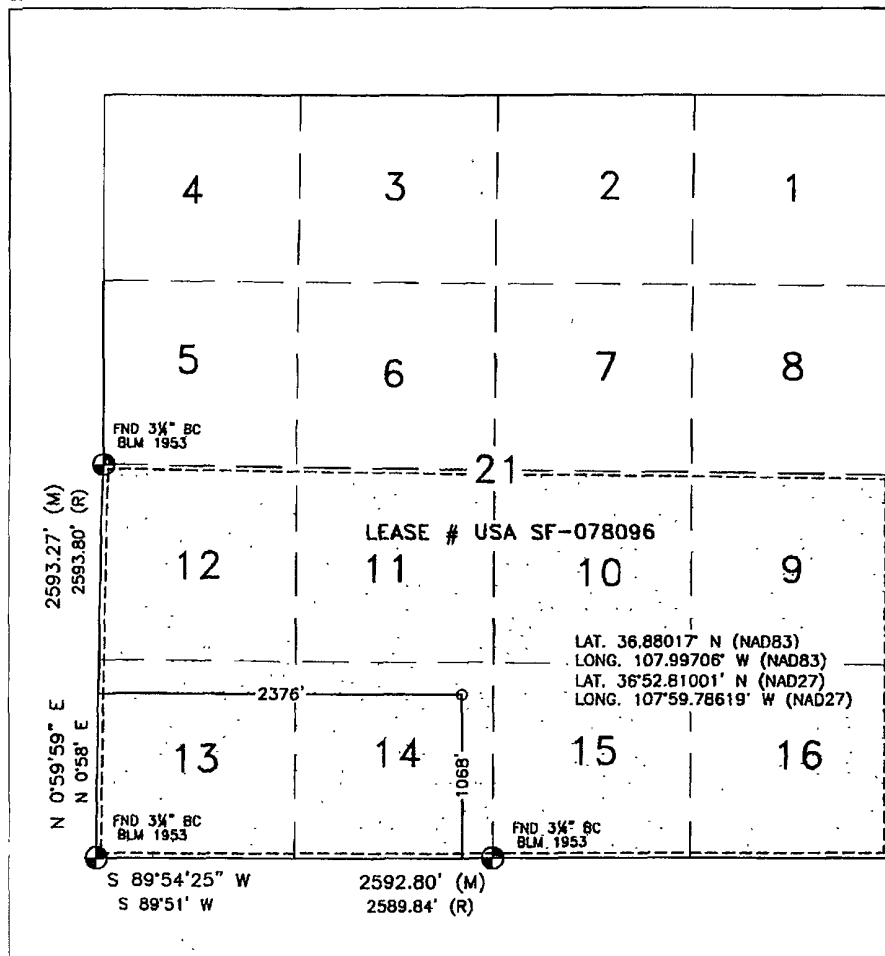
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	21	31N	11W	14	1068'	SOUTH	2376'	WEST	SAN JUAN

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
N									
*Dedicated Acres 302.99 Acres - (S/2)			*Joint or Infill		*Consolidation Code		*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

16



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 or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 4/25/08
Signature Date

Crystal Tafoya 6-25-08
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.

JUNE 10, 2008

Date of Survey

Signature and Seal of Professional Surveyor

David R. Russell



DAVID RUSSELL

Certificate Number

10201

COMPANY

BURLINGTON RESOURCES

Charge Code

WAN.RFE.PD08.D1

WELL NAME

MUDGE B # 100

DATE

7/29/2008

DUAL WELL

WELL NAME

TRIPLE WELL

WELL NAME

COORDINATES**SEC**

N 21

TNSHP

31 N

RANGE

11 W

LATITUDE

36.88017 N

LONGITUDE

107.99706

COUNTY

SAN JUAN

RECTIFIERSOLARGROUND BED240 V METER POLE480 V METER POLED C CABLESA C CABLESPRIMARY POWERDISTANCE TO POWERUNDERGROUNDPUMPJACKWATER PUMP

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
30/12	X			
	X			
	X			
# 8	200'			
# 8	1800'			
			CITY OF FMN	
			1000'	

COMMENTS

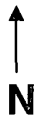
1 PHASE CITY OF FMN 1000'

SANDY LOAM

INSTALL RECTIFIER SYSTEM

PLOW UGAC 1600' TO LOCATION

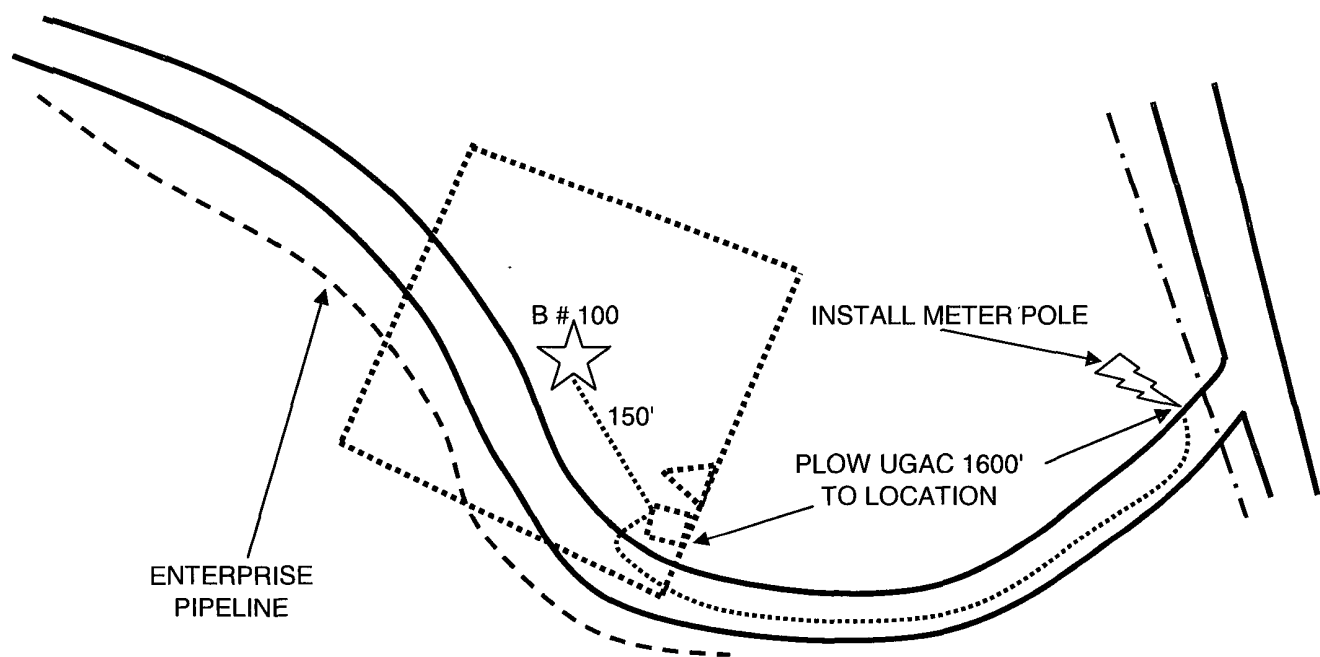
WELL NAME	MUDGE B # 100
-----------	---------------




















1 PHASE CITY OF FMN PRIMARY 1000'

SANDY LOAM

INSTALL RECTIFIER SYSTEM



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 



San Juan Business Unit

PROJECT PROPOSAL - New Drill / Sidetrack

MUDGE B 100

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8141		AFE \$: 301,166.29	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist: Phone:	
Geoscientist: Clark, Dave D		Phone: +1 505-326-9762		Prod. Engineer: Phone:	
Res. Engineer: Akwari, Bill N		Phone: +1 505-599-4076		Proj. Field Lead: Phone:	
Primary Objective (Zones):					
Zone	Zone Name				
JCV	BASIN FRUITLAND COAL (GAS)				

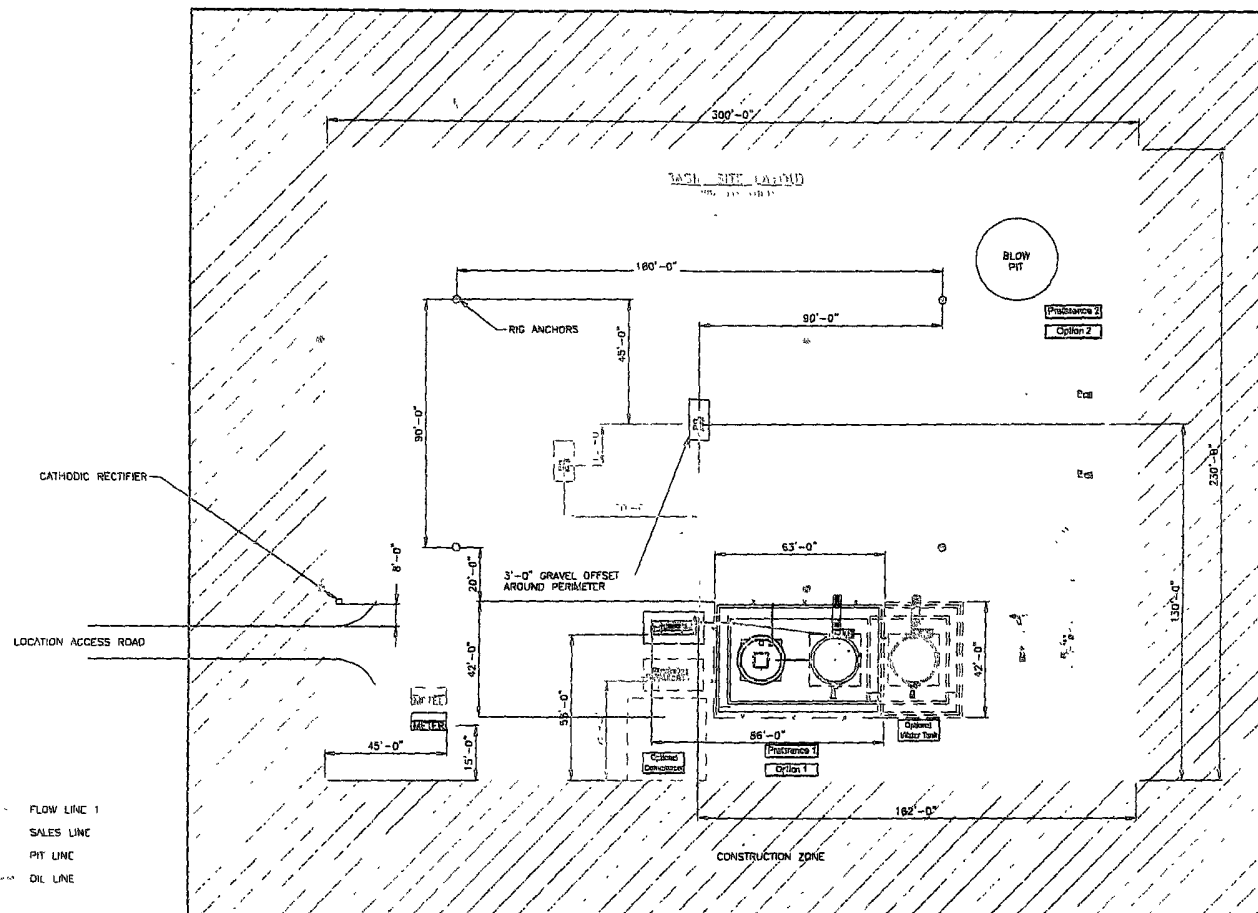
Location: Surface		Datum Code: NAD 27			
Latitude: 36.880167	Longitude: -107.996436	X:	Y:	Section: 21	Range: 011W
Footage X: 2376 FWL	Footage Y: 1068 FSL	Elevation: 5876	(FT)	Township: 031N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 5887 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	120	5767	<input type="checkbox"/>		
OJO ALAMO	857	5030	<input type="checkbox"/>		
KIRTLAND	892	4995	<input type="checkbox"/>		
FRUITLAND	2097	3790	<input type="checkbox"/>	350	Gas
PICTURED CLIFFS	2457	3430	<input type="checkbox"/>		Gas
Total Depth	2657	3230	<input type="checkbox"/>		6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 408 cuft. Circulate cement to surface.

Reference Wells:		
Reference Type	Well Name	Comments
Production	Mudge 36	SW21-31-11

Logging Program:	
Intermediate Logs:	<input type="checkbox"/> Log only if show <input type="checkbox"/> GR/ILD <input type="checkbox"/> Triple Combo


TD Logs:	<input type="checkbox"/> Triple Combo <input type="checkbox"/> Dipmeter <input type="checkbox"/> RFT <input type="checkbox"/> Sonic <input type="checkbox"/> VSP <input type="checkbox"/> TDT <input checked="" type="checkbox"/> Other
No OH logs.	

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



SEE SHEET 3 & 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPING IS TO BE BURIED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		<div></div>			CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										DESIGNED	REVIEWED	DATE	SHEET	DESCRIPTION							
										PROCESS											
										MECHANICAL											
										PIPING											
										ELECTRICAL											
										I & C											
										CIVIL/STRUCTURAL											
DESCRIPTION										DATE	BY	CHK'D	CHK'D	CHK'D	PRJ	SAN JUAN BUSINESS UNIT			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE
																			CLIENT NO.	CLIENT ADDR.	APPR. DATE

CONOCOPHILLIPS COMPANY

MUDGE B #100
1068' FSL & 2376' FWL
LOCATED IN THE SE/4 SW/4 OF SECTION 21,
T31N, R11W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM INTERSECTION OF HWY 516 & HWY 574 IN AZTEC, NM., GO NORTH ON HWY 574 FOR 1.95 MILES.
- 2) TURN RIGHT & GO 2.65 MILES.
- 3) TURN LEFT & GO NORTHWEST FOR 0.4 MILES TO BEGIN ACCESS.
- 4) FOLLOW RED FLAGGING TO THE RIGHT FOR 105' TO LOCATION.

WELL FLAG LOCATED AT LAT. 36.88017°N, LONG. 107.99706°W (NAD 83).

JOB No.: COPC194
DATE: 06/16/08



Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637