

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APR 16 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-080751-A Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company	7. Unit Agreement Name RCVD APR 23 '09 OIL CONS. DIV. DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Sunray F 9. Well Number 3N
4. Location of Well Surface: Unit H(ENE), 1855' FNL & 1060' FEL Surface: Latitude: 36.756243° N (NAD 83) Longitude: 107.830891° W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 1, T29N, R10W API # 30-045- 34951
14. Distance in Miles from Nearest Town 5 miles/Blanco	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1060'	
16. Acres in Lease 321.070	17. Acres Assigned to Well MV 324.61 (E/2) DK 324.98 (N/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 73' from Sunray F 2 (PC)	
19. Proposed Depth 6930'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5857' GR	22. Approx. Date Work will Start 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
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date: <u>4/16/2009</u>

A COMPLETE C-144 MUST BE SUBMITTED TO AND
APPROVED BY THE NMOCD FOR: A PIT, CLOSED
LOOP SYSTEM, BELOW GRADE TANK, OR
PROPOSED ALTERNATIVE METHOD, PURSUANT TO
NMOCD PART 19.15.17, PRIOR TO THE USE OR
CONSTRUCTION OF THE ABOVE APPLICATIONS.

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE APM DATE 4/21/09
NOTIFY AZTEC OGD
PRIOR TO CASING & CEMENT

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

APR 29 2009

Drilling operations authorized are
subject to compliance with attached
General Requirements.

NMOCD

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.9
and appeal pursuant to 43 CFR 3165.4

[Signature]

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

RECEIVED

Form C-102

Revised October 12, 2005

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Bureau of Land Management
Santa Fe, N.M. 87505 Farmington Field Office

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34951		*Pool Code 71599 / 72319		*Pool Name Blanco	
*Property Code 31811 37672		*Property Name SUNRAY F			*Well Number 3N
*OGRID No. 217817		*Operator Name CONOCOPHILLIPS COMPANY			*Elevation 5857

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
H	I	29 N	10 W	LOT 12	1855	NORTH	1060	EAST	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
H									

¹² Dedicated Acres 324.61 (E/2) MV 324.98 (N/2) DK	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

¹⁶ N 89°48'25" W 2621.24' LOT 8 (41.53) LOT 7 (41.11) USA NM-04241		N 89°48'39" W 2618.41' LOT 6 (40.83) USA SF-080751-A		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. Signature <u>James Gardenhire</u> 11/14/08 Date Printed Name
LOT 9 (40.02) LOT 10 (40.05) N 1°18'45" E		LOT 11 (40.50) NAD 83 LAT: 36.756243° N LONG: 107.830891° W LOT 12 (40.63) NAD 27 LAT: 36°45.3743' N LONG: 107°49.8164' W SECTION I		
LOT 16 (40.10) LOT 15 (40.17) USA SF-077092-A		LOT 14 (40.85) LOT 13 (40.73) USA SF-077092-B		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 8/22/08 Signature and Seal of Professional Surveyor MARSHALL W. LINDEN 11-10-08 17078 Certificate Number
LOT 17 (40.16) LOT 18 (40.23) N 1°21'04" E S 89°52'58" W 2637.62'		LOT 19 (40.44) LOT 20 (40.52) S 89°50'50" W 2635.74'		

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SUNRAY F 3N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8307		AFE \$: 1,349,053.84	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 673		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Johnson, David		Phone: +1 505-324-6169		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead:	
				Phone:	

Primary Objective (Zones):

Zone	Zone Name
RON	BLANCO MESAVERDE (PRORATED GAS)
FRR	BASIN DAKOTA (PRORATED GAS)

Location:		Datum Code: NAD 27			
Latitude: 36.756238	Longitude: -107.830273	X:	Y:	Section: 01	Range: 010W
Footage X: 1060 FEL	Footage Y: 1855 FNL	Elevation: 5857	(FT)	Township: 029N	
Tolerance:					

Location Type: Year Round	Start Date (Est.): 1/1/2010	Completion Date:	Date In Operation:
---------------------------	-----------------------------	------------------	--------------------

Formation Data: Assume KB = 5869	Units = FT
----------------------------------	------------

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	5669	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
OJO ALAMO	1138	4731	☐			
KIRTLAND	1307	4562	☐			
FRUITLAND	1857	4012	☐			Possible Gas
PICTURED CLIFFS	2401	3468	☐			
LEWIS	2515	3354	☐			
Intermediate Casing	2615	3254	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 589 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3137	2732	☐			
CHACRA	3379	2490	☐			
MASSIVE CLIFF HOUSE	4030	1839	☐	367		Gas
MENEFEE	4153	1716	☐			
POINT LOOKOUT	4629	1240	☐			
MANCOS	5068	801	☐			
UPPER GALLUP	5887	-18	☐			
GREENHORN	6629	-760	☐			
GRANEROS	6687	-818	☐			
TWO WELLS	6745	-876	☐	2093		Gas
PAGUATE	6825	-956	☐			
CUBERO	6879	-1010	☐			
Total Depth	6930	-1061	☐			6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing. Cement w/ 587 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	6930	-1061	☐			

Reference Wells:		
Reference Type	Well Name	Comments

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SUNRAY F 3N

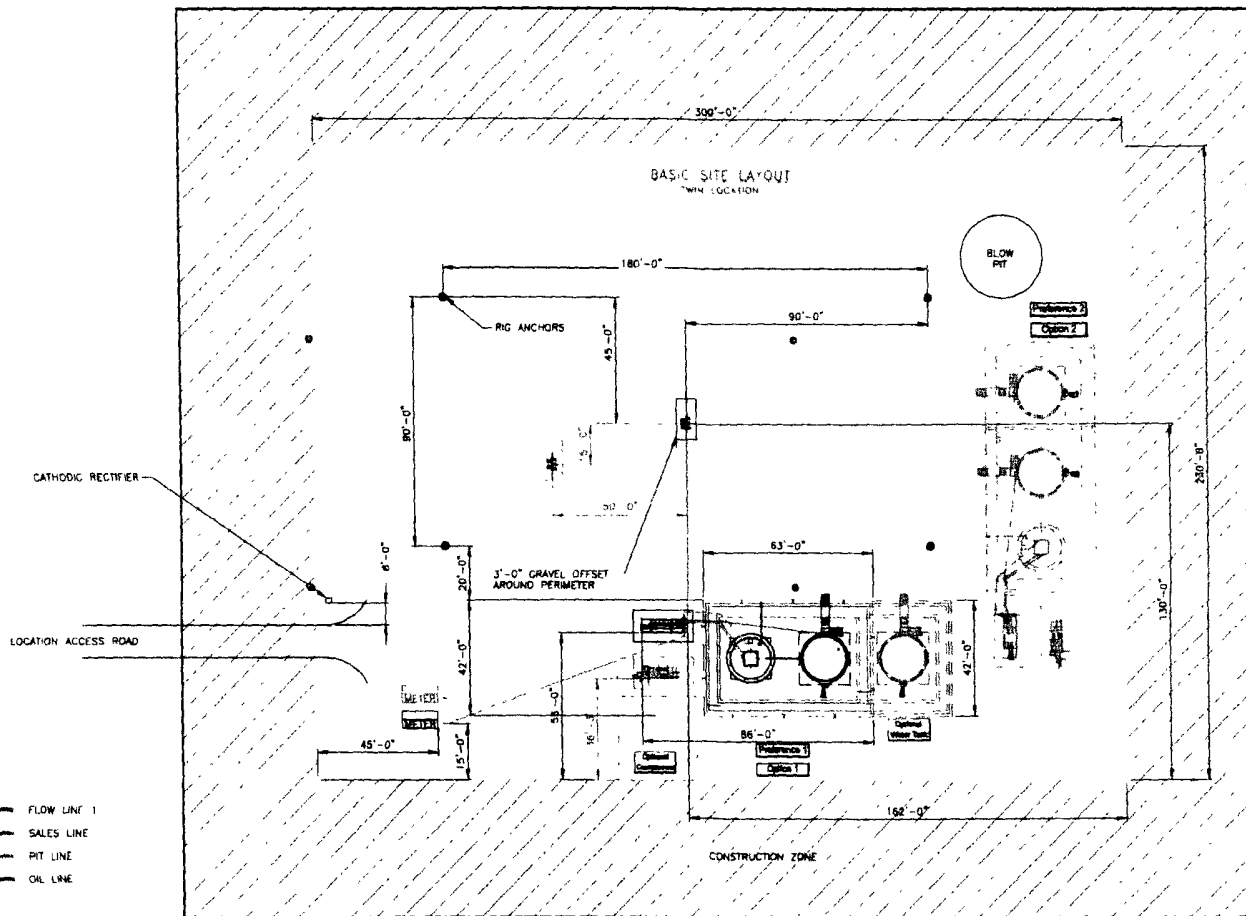
DEVELOPMENT

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

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

Est bottom perf ~50' (Paguete) above the est TD.

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



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

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS				CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										DISCIPLINE	REVIEWED	DATE	NO.	DESCRIPTION			CLIENT NO.	CLIENT APPR.	APPR. DATE	
										PROCESS										
										MECHANICAL										
										PIPING										
										ELECTRICAL										
										I & C										
										CON. STRUCTURE										
										PROJECT										

SAN JUAN BUSINESS UNIT

HP3PHASE-REV1

SHEET NO. 1 OF 5

CONOCOPHILLIPS COMPANY

SUNRAY F 3N

1855' FNL & 1060' FEL

LATITUDE: 36.756243° N

LONGITUDE: 107.830891° W

NAD 83

SECTION 1, T-29-N, R-10-W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

FROM THE INTERSECTION OF U.S. HIGHWAY 64 AND COUNTY ROAD 4599

IN BLANCO, NEW MEXICO

TRAVEL NORTHERLY ON COUNTY ROAD 4599 FOR 2.2 MILES.

TURN LEFT AND PROCEED NORTHWESTLY UP VACA CANYON 0.1 MILE.

STAY TO THE LEFT AND CONTINUE

THROUGH VACA CANYON FOR 1.0 MILE.

TURN LEFT AND PROCEED SOUTHWESTERLY ON

EXISTING WELL ACCESS ROAD FOR 0.6 MILE.

TURN LEFT AND TRAVEL SOUTHEASTERLY 0.6 MILE

TO PROPOSED SUNRAY F 3N WELL SITE.