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MAY 22 2008

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED
BUREAU OF LAND MANAGEMENT
MAY 22 2008

1a. Type of Work DRILL	5. Lease Number USA SF-078124 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name Huerfano 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 M(SWSW), 670' FSL & 800' FWL Surf: Latitude 36.424675° N Longitude 107.908092° W	9. Well Number #304E 10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) M Sec. 4, T25N, R10W API # 30-045-34725
14. Distance in Miles from Nearest Town 23 miles/Bloomfield	12. County San Juan
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 670'	
16. Acres in Lease 800.00 1278.32	17. Acres Assigned to Well 320.00 - (S/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 3850' from Latex #1 - PC	
19. Proposed Depth 6574'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6632' 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>Sasha Spangler</u> Sasha Spangler (Regulatory Technician)	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 4

Bond Numbers NMB-000015 and NMB-000089

NOTIFY AZTEC OCD 24 HRS.

PRIOR TO CASING & CEMENT

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

NMOCD

NOV 07 2008

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

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 Bureau of Land Management
Farmington Field Office

RECEIVED

Form C-102

Revised October 12, 2005

MAY 22 2008 Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34725		² Pool Code 71599		³ Pool Name BASIN DAKOTA	
⁴ Property Code 7139		⁵ Property Name HUERFANO UNIT			⁶ Well Number 304E
⁷ OGRID No. 14538		⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP			⁹ Elevation 6632

¹⁰ SURFACE LOCATION

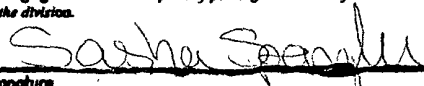
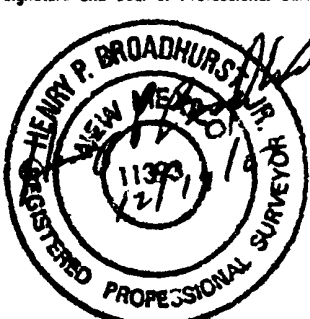
UL or lot no. M	Section 4	Township 25-N	Range 10-W	Lot Idn	Feet from the 670	North/South line SOUTH	Feet from the 800	East/West line WEST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. M	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 320.00 S/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 5277.7' (M) 5282.0' (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.  Signature Sasha Spangler Printed Name Regulatory Technician Title and E-mail Address 01-08-08 Date
	S/2 DEDICATED ACREAGE USA SF-078124 SECTION 4 T-25-N, R-10-W			
WELL FLAG NAD 83 LAT: 36.424675° N LONG: 107.908092° W NAD 27 LAT: 36°25.479945' N LONG: 107°54.448421' W				
5289.4' (R) 5268.6' (M)	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: 11/02/07 Signature and Seal of Professional Surveyor  Certificate Number: NM 11393			

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON		
WAN.RFE.PD07.IW		
HUERFANO # 304 E	DATE	12/27/2007
WELL NAME		
WELL NAME		

	SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
COORDINATES	SW 4	25 N	10 W	36.424675 N	107.908092 W

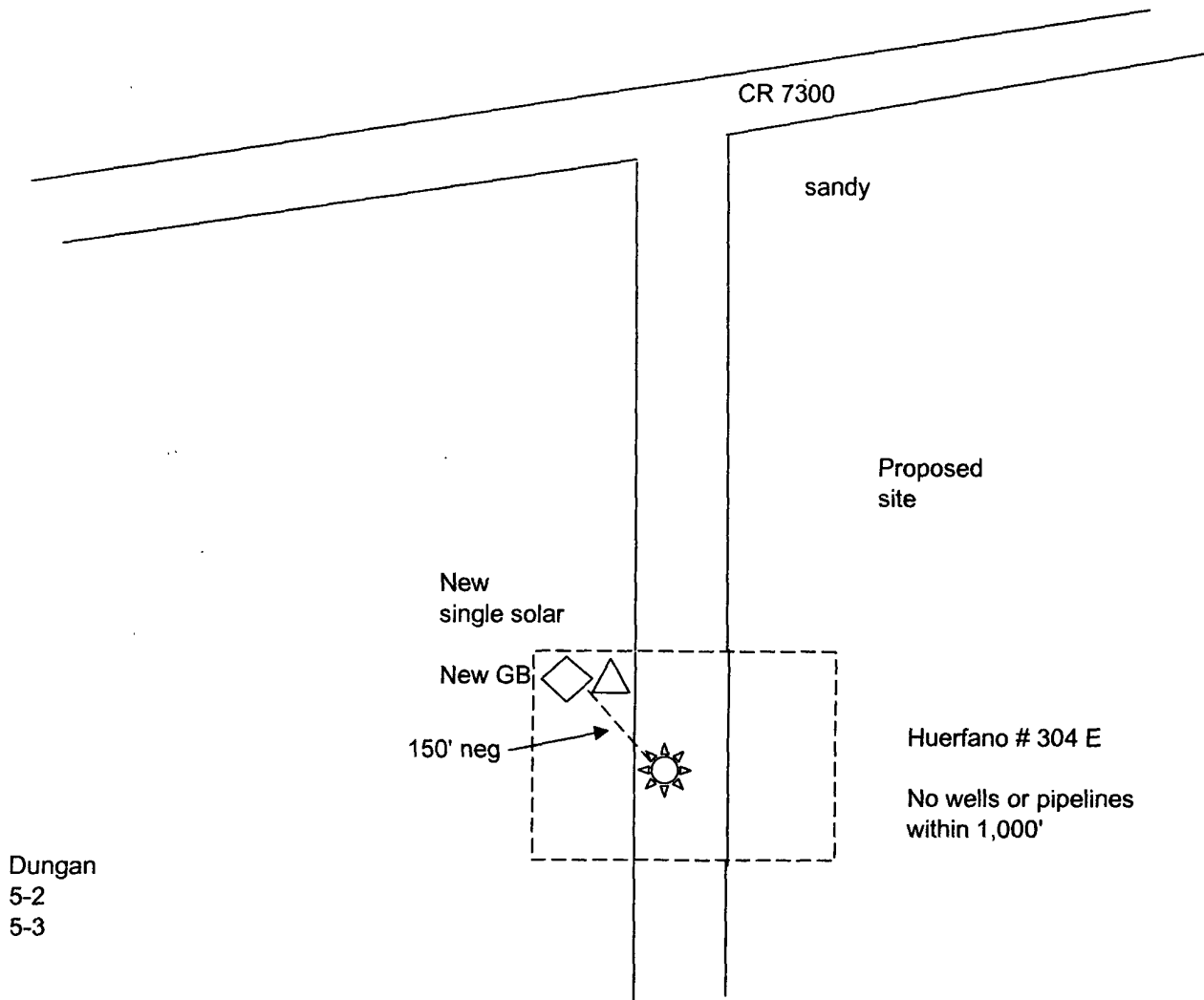
COUNTY	SAN JUAN
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	SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
<u>RECTIFIER</u>					
<u>SOLAR</u>					
<u>GROUND BED</u>					
<u>240 V METER POLE</u>					
<u>480 V METER POLE</u>					
<u>D C CABLES</u>					
<u>A C CABLES</u>					
<u>PRIMARY POWER</u>					
<u>DISTANCE TO POWER</u>					
<u>UNDERGROUND</u>					
<u>PUMPJACK</u>					
<u>WATER PUMP</u>					
<u>COMPRESSOR</u>					
<u>RTU</u>					
<u>SAMS</u>					
<u>TANKS</u>					

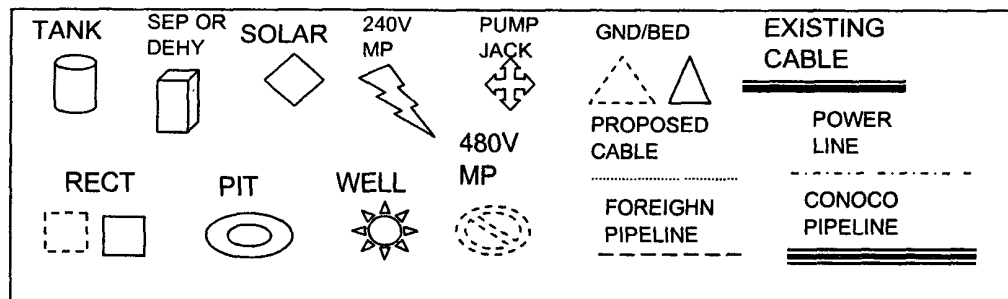
COMMENTS	



Huerfano # 304 E



Dungan
5-2
5-3



BURLINGTON RESOURCES OIL & GAS COMPANY LP
HUERFANO UNIT #304E

670' FSL, 800' FWL

SECTION 4, T-25-N, R-10-W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

NAD 83 LAT.: 36.424675°N LONG.: 107.908092°W

ELEV.: 6632 NAVD88

NEW ACCESS 175'

From Bloomfield Hwy 64 & 550 Intersection:

- Go: South 21.6 miles on Hwy 550, turn right on C.R. #7300.
- Go: West 1.5 miles on C.R. #7300 and turn left on road.
- Go: South 0.2 miles to begin re-route of existing road and proposed well Huerfano Unit #304E is staked west of road.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUERFANO UNIT 304E

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7404		AFE \$: 593,397.38	
Field Name: hBR_SAN JUAN		Rig: Bearcat Rig 4		State: NM	County: SAN JUAN
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)				
Location: Surface		Datum Code: NAD 27		Straight Hole	
Latitude: 36.424565	Longitude: -107.907473	X:	Y:	Section: 04	Range: 010W
Footage X: 800 FWL	Footage Y: 670 FSL	Elevation: 6632	(FT)	Township: 025N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date:	Date In Operation:
Formation Data: Assume KB = 6646 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	320	6446	☐		
12 1/4" hole. 8 5/8" 24 ppf, J-55, STC casing. Cement with 200 cuft. Circulate cement to surface.					
OJO ALAMO	951	5695	☐		
KIRTLAND	1189	5457	☐		
FRUITLAND	1657	4989	☐		Possible Gas
PICTURED CLIFFS	1851	4795	☐		
CHACRA	1989	4657	☐		
LEWIS	2028	4618	☐		
HUERFANITO BENTONITE	2202	4444	☐		
UPPER CLIFF HOUSE	3368	3278	☐		
MENEFEE	3407	3239	☐		
POINT LOOKOUT	4307	2339	☐		GAS
MANCOS	4475	2171	☐		
UPPER GALLUP	5353	1293	☐		
GREENHORN	6251	395	☐		
GRANEROS	6309	337	☐		
TWO WELLS	6349	297	☐	1200	Gas
PAGUATE	6397	249	☐		
CUBERO	6459	187	☐		
ENCINAL	6504	142	☐		
BURRO CANYON	6548	98	☐		
Total Depth	6574	72	☐		
7-7/8" hole, 4-1/2" 11.6 ppf, N-80 LTC casing. Cement with 2082 cuft					
MORRISON	6574	72	☐		TD - T/MRSN
Reference Wells:					
Reference Type	Well Name	Comments			
Production	HUERFANO 1	25N-10W4 NE NE			
Production	LUNDEAN 1	25N-10W9 C NE NE			
Production	HUERFANO 304	25N-10W4 C SW NW			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

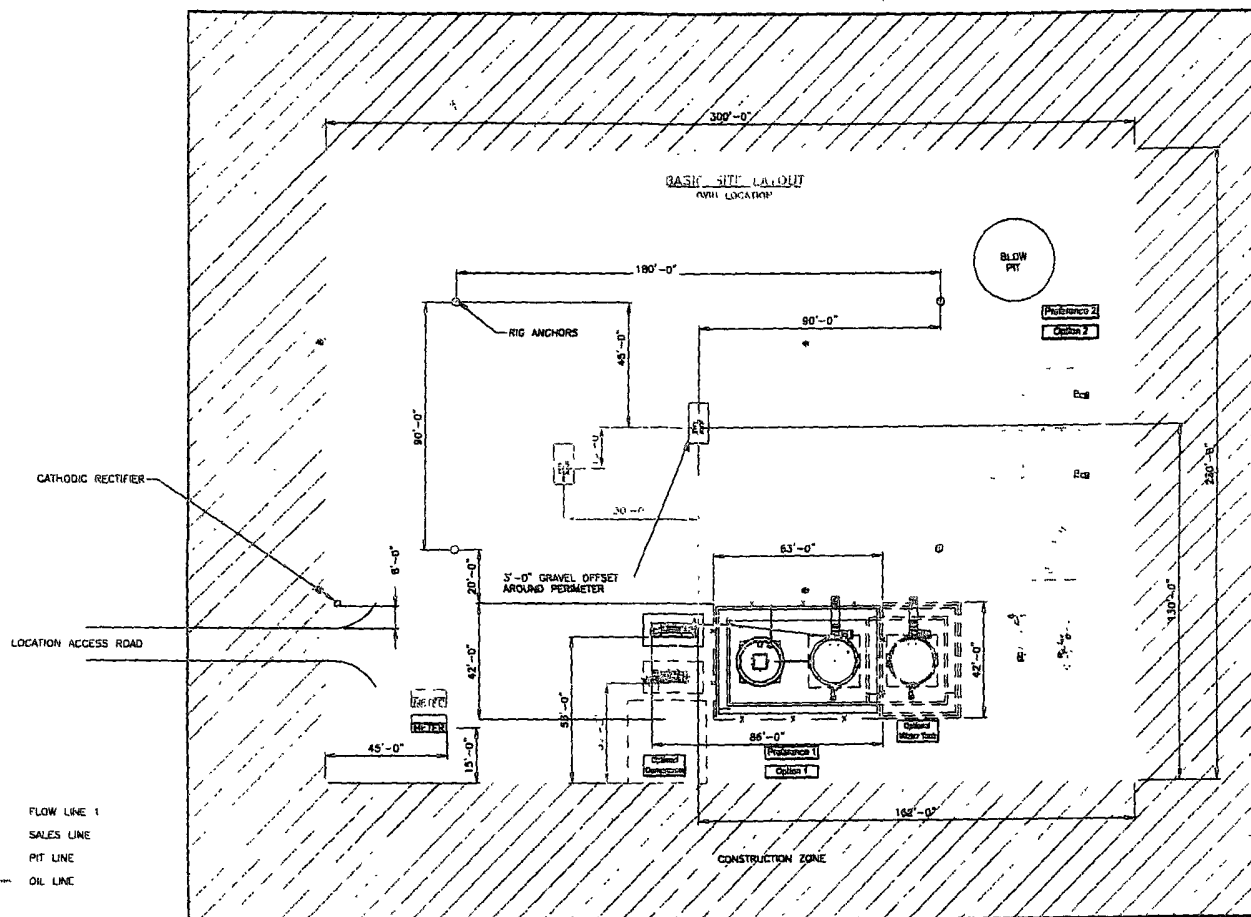
HUERFANO UNIT 304E

DEVELOPMENT

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
GR/CBL	
Mudlog from 100' above Greenhorn to TD - mudlogger will call TD	

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



SEE SHEET 3, 2, 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPING IS TO BE GRADED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		CONOCOPhillips		CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										DESIGNER	CHECKED	DATE	NO.	DESCRIPTION						
										PROCESS										
										MECHANICAL										
										PIPE										
										ELECTRICAL										
										I & C										
										CIVIL/STRUCTURAL										
DESCRIPTION										DATE		BY	CHKD	ENG	DATE	NO.	DESCRIPTION	CLIENT NO.	CLIENT APPR.	APPR. DATE
																		SCALE: AS SHOWN	CREATION DATE: 9/10/07	
																		SCALE: 1"=10'		
																		DESIGN BY:		
																		HP3PHASE-REV1	SHEET NO. 1 OF 3	

Project: Shipboard Fuel System Upgrade Location: Site Layout, 06/20/2007 - 06/29/07