

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 01 2009

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Land Management
Farmington Field Office

1a. Type of Work DRILL	5. Lease Number SF-043260-B 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 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 Murphy E 9. Well Number 100
4. Location of Well Surf: Unit A (NENE), 1045' FNL & 890' FEL Surf: Latitude: 36.773034° N (NAD83) Longitude: 107.972380° W	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 34, T30N, R11W API # 30-045-34973
14. Distance in Miles from Nearest Town 4.6 miles/Aztec	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 890'	
16. Acres in Lease 433.790	17. Acres Assigned to Well FC 321.37 (N/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 280' from Murphy E 1	
19. Proposed Depth 2468'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5936' GL	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>5/1/2009</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 2

Bond Numbers NMB-000015 and NMB-000089

This action is subject to technical and procedural review pursuant to 43 CFR 3165.8 and appeal pursuant to 43 CFR 3165.4

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

NOTIFY AZTEC OGD 24 HRS.
PRIOR TO CASING & CEMENT

MAY 14 2009 NMOCD

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

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-045-34973	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 7340	⁵ Property Name MURPHY E	⁶ Well Number 100
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 5936

¹⁰ SURFACE LOCATION

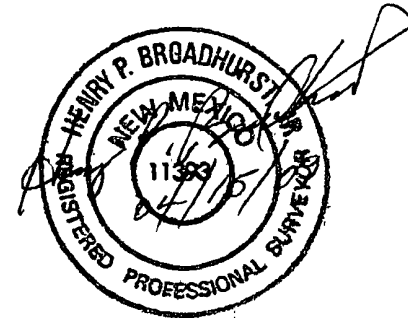
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	34	30-N	11-W	(1)	1045	NORTH	890	EAST	SAN JUAN

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
A									

¹² Dedicated Acres 321.37 (N/2)	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 LOT 4 BLM 1969	LOT 3 N 88°26' W N 88°20'16" W WELL FLAG NAD 83 LAT: 36.773034° N LONG: 107.972380° W NAD 27 LAT: 36°46.381768' N LONG: 107°58.305481' W	LOT 1 2594.5' (R) 2595.3' (M) 2662.5' (R) 2660.9' (M)	LOT 2 1045'	LOT 5 USA SF-043260-A LOT 6 N/2 DEDICATED ACREAGE USA SF-043260-B SECTION 34 T-30-N, R-11-W	LOT 7 LOT 8 890'	LOT 6 0'21" W 0'17'58" W	BLM 1969	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 divist on. <i>Crystal Tafoya 4/15/09</i> Signature Crystal Tafoya Printed Name Regulatory Technician Title and E-mail Address April 15th, 2009 Date
								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: 10/13/08 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

MURPHY E 100

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8390		AFE \$: 697,912.83	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
				Phone:	

Primary Objective (Zones):

Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)

Location: Datum Code: NAD 27

Latitude: 36.773029	Longitude: -107.971757	X:	Y:	Section: 34	Range: 011W
Footage X: 890 FEL	Footage Y: 1045 FNL	Elevation: 5936	(FT)	Township: 030N	
Tolerance:					

Location Type: Year Round	Start Date (Est.): 1/1/2009	Completion Date:	Date In Operation:
Formation Data: Assume KB = 5950 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	5750	<input type="checkbox"/>			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 77 cuft. Circulate cement to surface.
OJO ALAMO	932	5018	<input type="checkbox"/>			
KIRTLAND	1048	4902	<input type="checkbox"/>			
FRUITLAND	1708	4242	<input type="checkbox"/>			Gas
FRUITLAND COAL	1832	4118	<input type="checkbox"/>			
PICTURED CLIFFS	2268	3682	<input type="checkbox"/>	100		Gas; TD - 200' below T/PCCF
Total Depth	2468	3482	<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 376 cuft. Circulate cement to surface.

Reference Wells:

Reference Type	Well Name	Comments
Production	Forrest 1	30N-11W35 NE SW NW
Production	Murphy E 2	30N-11W34 SW NE NW
Production	Murphy E 1	30N-11W34 SW NE NE
Production	Martin 2	30N-11W34 SE NW SE

Logging Program:

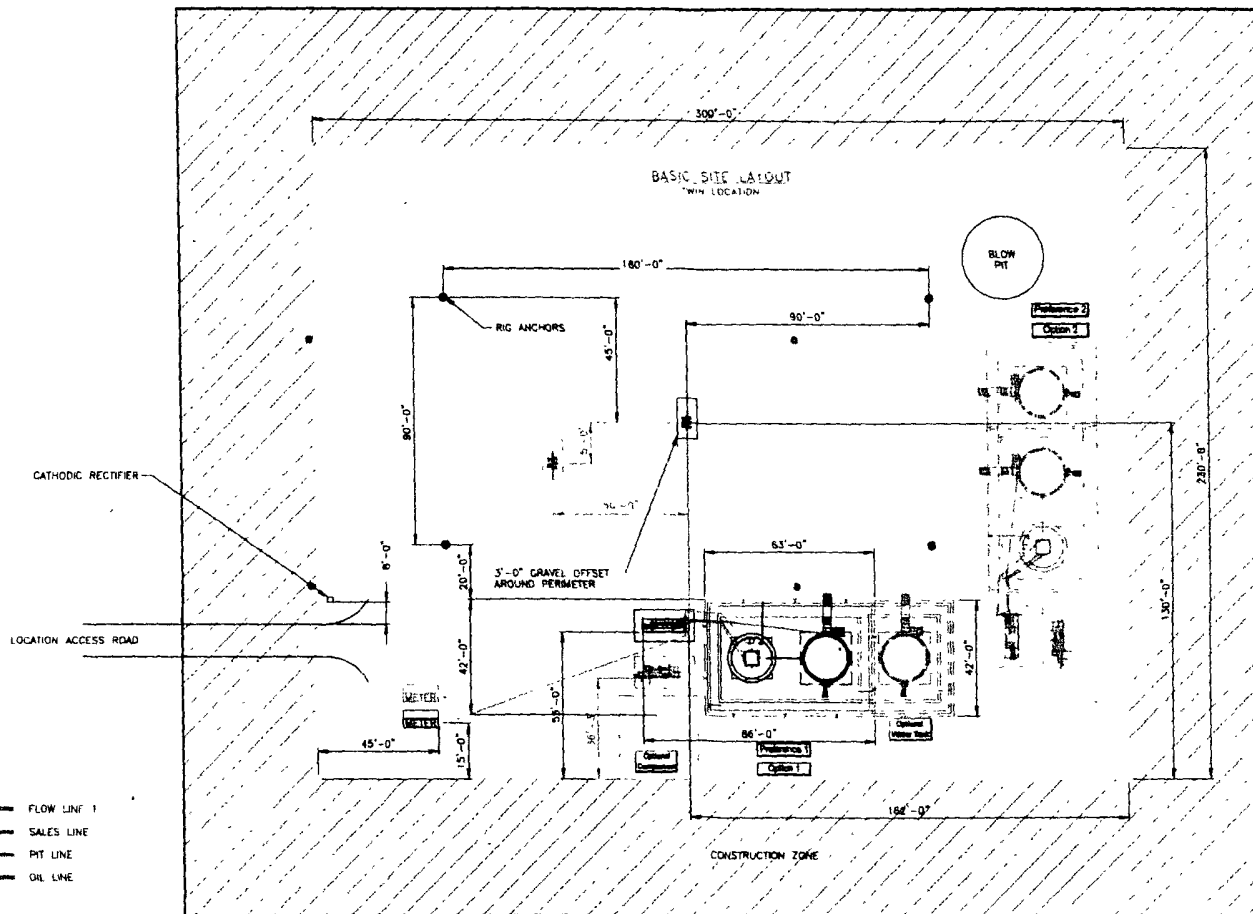
Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

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

Cased Hole GR / CBL

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
----------	-------	-----------	---------	----------------	---------



FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

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		<div>CONOCOPhillips</div> <div>SAN JUAN BUSINESS UNIT</div>			CONOCOPhillips HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
										PROJECT	REVIEWED	DATE	NO.	DESCRIPTION				CLIENT NO.	CLIENT APPR.	APPR. DATE
										MECHANICAL						SCALE: NONE	CREATOR BY:	CREATION DATE: 8/29/07		
										PIPING										
										ELECTRICAL										
										I & C										
										CIVIL/STRUCTURAL										
										PROJECT										
DESCRIPTION										DATE	BY	CHK'D	ENG	DOC	APP.	SHEET No 1 of 5				

BURLINGTON RESOURCES OIL & GAS COMPANY LP

**MURPHY E 100
1045' FNL, 890' FEL
SECTION 34, T-30-N, R-11-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
NAD 83 LAT.: 36.773034°N LONG.: 107.972380°W
GROUND ELEV.: 5936 NAVD88
NEW ACCESS 101.2'**

FROM AZTEC, NM AT THE INTERSECTION OF HWY. 550 AND AZTEC
BLVD. (NM ST. HWY 516)

- TURN SOUTH ON HWY. 550 AT CONOCO SUNDIAL/SAFEWAY STORE.
- GO 3.9 MI. SOUTH. TURN LEFT TOWARD THE WEST SIDE OF HWY. 550.
- GO 0.25 MI. TURN RIGHT.
- GO 0.4 MI SOUTHEAST. TURN RIGHT ON WELL ACCESS ROAD.
- GO 400 FEET SOUTHWEST ON EXISTING LOCATION FOR BURLINGTON: MURPHY E1. BEGIN 101.2 FEET NEW ACCESS FROM SOUTH EDGE OF LOCATION.