UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, DEEP	EN, OR PLUG BACK		
la.	Type of Work	20045D Lêase Number 10 02		
	DRILL	NM-0301/		
		Unit Reporting,Number		
b.	Type of Well	06.0 If Indian, All. of Tribe		
	GAS			
	10 10 12 3 g			
2.	Operator 6	7. Unit Agreement Name		
	BURLINGTON AN JAN 200	4		
	RESOURCES Oil & Gas Company	A Huerfano Unit		
	S 400 5			
3.	Address & Phone No. of Operator	8. Farm or Lease Name		
	PO Box 4289, Farmington, 187499.	Huerfano Unit		
	(EOE) 336 0300	9. Well Number		
	(505) 326-9700	#128F		
1	Location of Well	10. Field, Pool, Wildcat		
, .	910' FNL, 235' FWL	Basin Dakota		
	310 IND, 233 IND	11. Sec., Twn, Rge, Mer. (NMPM)		
	Latitude 36° 32.1879'N, Longitude 107° 51.274			
		ΔDI# 30-045		
		32746		
14.	Distance in Miles from Nearest Town	12. County 13. State		
	22.6 miles intersection Hwy 550 & 64	San Juan NM		
15.	Distance from Proposed Location to Nearest Property or Lease 235'			
16.	Acres in Lease	17. Acres Assigned to Well DK 320 W/2		
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl,	or Applied for on this Lease		
	1121'	••		
19.	Proposed Depth	20. Rotary or Cable Tools		
	7055 ′	Rotary		
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start		
	6573 ' GR			
23.	Proposed Casing and Cementing Program			
LJ.	See Operations Plan attached			
	bee operations fram accaence			
	\bigcap	1-010		
	Authorized by:	11123104		
24.		Date		
24.	Regulatory Specialist			
24.	Regul à tory Specialist	A STATE OF THE STA		
24. PERN	Regulatory Specialist MIT NO APPROVAL			
PERM	IIT NO APPROVAL	DATE		
PERM				
PERM	IIT NO APPROVAL	DATE		

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

purposed rate sview purposers to 40 C/ R 3 and appeal pursuant to 43 C/ R 3165.4

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.

NO HPA NOTIFICATION REQUIRED UNDER ORDER R-8768F.

NMOCD

DHILL NO CHEM WAS ACCHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

DISTRICT I 1626 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brezos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION

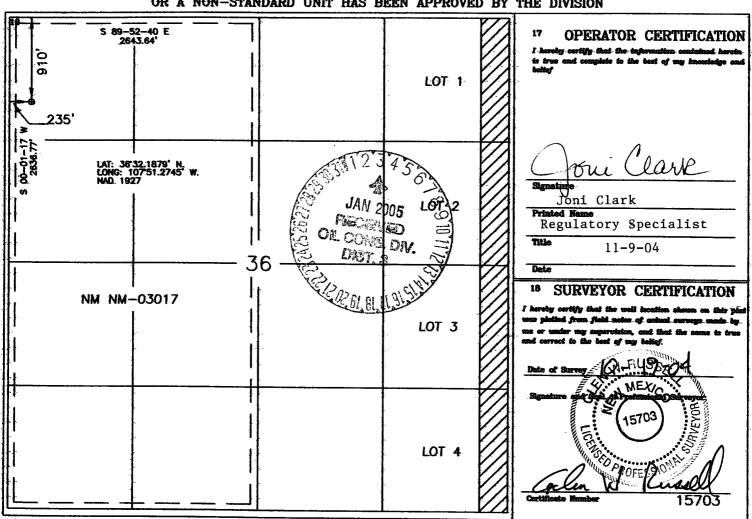
2040 South Pacheco Santa Fe, NM 67505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

2004 DEC 14 FO 10 QAMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87605

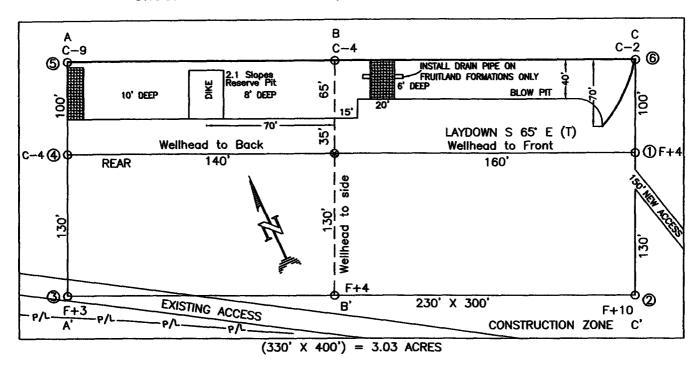
'API Number 2011		2011		*Pool Code		Basin Dakota FARMITTON HM			
30-0)45-	32 146	>	71599		Basin Dakŏ	ta		
⁴ Property Code			*Property Name				• 1	• Veil Number	
7139			HUERFANO UNIT					128F	
OGRID No.			⁸ Operator Name					* Elevation	
14538			BURLIN	BURLINGTON RESOURCES OIL AND GAS COMPANY LP				6573'	
					¹⁰ Surface	Location			
M. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Peet from the	East/West line	County
D.	36	27-N	10-W		910'	NORTH	235'	WEST	SAN JUAN
			11 Botto	om Hole	Location I	Different Fro	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acre	<u>. </u>	1	Joint or	infilì	¹⁴ Consolidation. C	iode	¹⁸ Order No.		1
W/:	2 320	acres				-			

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

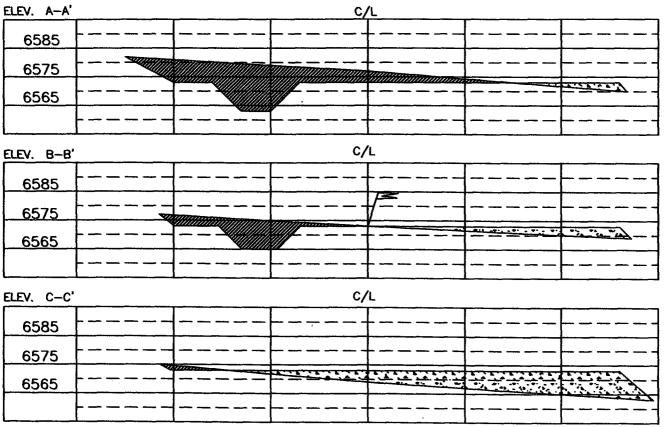


Office	State of New Mexico	Form C-103
District I	Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-045-
1301 W. Grand Ave., Artesia, NM 8821		5. Indicate Type of Lease
District III	1220 South St. Francis Dr.	STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87	7505	NM-03017
	ICES AND REPORTS ON WELLS LS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
I'	TION FOR PERMIT" (FORM C-101) FOR SUCH	Huerfano Unit
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number 128F
2. Name of Operator		9. OGRID Number
	SOURCES OIL & GAS COMPANY LP	14538
3. Address of Operator 3401 E. 30TH ST	REET, FARMINGTON, NM 87402	10. Pool name or Wildcat Basin Dakota
4. Well Location		
Unit Letter D : Section 36	910 feet from the North line and Township 27N Range 10W	235 feet from the West line NMPM County San Juan, NM
	1. Elevation (Show whether DR, RKB, RT, GR, etc.)	TVM VI
Pit or Below-grade Tank Application	X or Closure	
Pit type New Drill Depth to Groun		>1000' Distance from nearest surface water >1000'
Pit Liner Thickness:	mil Below-Grade Tank: Volume	>1000' Distance from nearest surface water >1000' bbls; Construction Material
	Appropriate Box to Indicate Nature of No INTENTION TO:	· •
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIA	SUBSEQUENT REPORT OF: L WORK ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS COMMEN	CE DRILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL CASING/	CEMENT JOB
OTHER: No	ew Drill X OTHER:	
13. Describe proposed or compl	eted operations. (Clearly state all pertinent details, and g	
13. Describe proposed or compl of starting any proposed wo		
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13. Describe proposed or compl of starting any proposed wor or recompletion.	eted operations. (Clearly state all pertinent details, and girk). SEE RULE 1103. For Multiple Completions: Atta	ch wellbore diagram of proposed completion
13. Describe proposed or complof starting any proposed work or recompletion. Burlington Resources proposes to Ecosphere's risk ranking criteria, 1	eted operations. (Clearly state all pertinent details, and goods). SEE RULE 1103. For Multiple Completions: Attached the A	ch wellbore diagram of proposed completion pit. Based on Burlington's interpretation of the bit as detailed in Burlington's Revised Drilling /
13. Describe proposed or complof starting any proposed work or recompletion. Burlington Resources proposes to Ecosphere's risk ranking criteria, the Workover Pit Construction / Oper	construct a new drilling pit and an associated blow/flare the new drilling pit and blow/flare pit will be an unlined atton Procedures dated November 11, 2004 on file at the	pit. Based on Burlington's interpretation of the bit as detailed in Burlington's Revised Drilling /
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BURLINGTON RESOURCES OIL & GAS COMPANY LP HUERFANO UNIT 128F, 910' FNL & 235' FWL SECTION 36, T-27-N, R-10-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6573', DATE: OCTOBER 13, 2004



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE). BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUNG UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES
ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

OPERATIONS PLAN

Well Name: Huerfano Unit #128F

Location: 910'FNL, 235' FWL, Section 36, T-27-N, R-10-W

San Juan County, New Mexico

Latitude 36° 32.19, Longitude 107° 51.27

Formation: Basin Dakota

Elevation: 6573'GL

Formation Tops:	Top	<u>Bottom</u>	Contents
Surface	San Jose	1330 ′	
Ojo Alamo	1330 ′	1530'	aquifer
Kirtland	1530'	2190'	gas
Fruitland	2190 ′	2330 ′	
Pictured Cliffs	2330'	2400'	gas
Lewis	2400 ′	2782 ′	gas
Huerfanito Bentonite	2782 '	3220 ′	gas
Chacra	3220 ′	3905'	gas
Cliff House	3905 ′	3980 ′	
Menefee	3980 ′	4772 ′	gas
Point Lookout	4772'	4990 ′	gas
Mancos	4990 ′	5837 ′	gas
Gallup	5837 ′	6677 ′	gas
Greenhorn	6677 '	6730'	gas
Graneros	6730 '	6758 '	gas
Two Wells	6758 ′	6845 ′	
Paguate	68 45 ′	6899 '	
Cubero	6899 '	6954 ′	
Encinal	6954 ′	7015 ′	
Morrison	7015 ′		gas
TD	7055′		

Logging Program:

Mud Logs/Coring/DST -

Mud logs - 6577' to TD

Coring - none
DST - none
Open hole - none

Cased hole - Gamma Ray - surface to TD

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 300'	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
300- 7055 ′	LSND	8.4-9.0	30-60	no control

Casing Program (as listed, the equivalent, or better):

<u> Hole Size</u>	<u>Depth Interval</u>	Csg.Size Wt.	Grade
12 1/4"	0' - -300' 320	8 5/8" 3 2.3 # 32	J-55
7 7/8"	0' - 7055'	4 1/2" 10.5#	J-55

Tubing Program: 0' - 7055' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

8 5/8" x 4 ½" x2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- · BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

8 5/8" surface casing conventionally drilled Cement with 290 sacks Type III cement with 0.25 pps Celloflake, 3% calcium chloride.
(200% excess, bring cement to surface). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE.
Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

4 1/2" Production Casing Two Stage -

Stage collar set @ 4700'. First Stage: Lead with w/283 sacks Premium Lite cmt w/3% calcium chloride, 0.4% sodium metasilicate, 0.25 pps celloflake, 5 pps LCM-1 and 0.4% FL-52. Tail w/75 sacks Premium Lite HS FM cmt w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. Second Stage: 700 sacks Premium Lite cmt w/3% calcium chloride, 0.4% metasilicate, 0.25 pps celloflake, 5 pps LCM-1 and 0.4% FL-52. (2243 cu ft - 40% excess, circulate to surface, run CBL/temperature survey if cement is not circulated to surface.)

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every fourth joint off bottom, to the base of the Ojo Alamo @ 1530'. Two turbolating centralizers at the base of the Ojo Alamo 1530'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while air/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Dakota formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi Pictured Cliffs 600 psi Mesa Verde 700 psi Dakota 2500 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The west half of Section 36 is dedicated to the Dakota formation.
- This gas is dedicated.

flon longer Drilling Enginger

Date

Burlington Resources

2000 psi System Oriting Rig

RED FLOOR

Drilling Rig Choke Manifold Configuration 2000 pel System

T T 5

£

DOUBLE GATE

PPLL-UP LINE

ROTATING HEADS

Point to Total Depth. 2,000psi working pressure

Figure #3

4-20-01

1

pressure or greater exchuding 500 pol etripping head. the BOP. At BOP equipment is 2000 pel working

Figure #2

pressure double gate BOP to be equipped with blind and lipe rame. A shipping head to be installed on the top of

Operations. 7-1/16" bore, 2000 pet minimum working Minimum BOP installation for all Completion/Workov

4-20-01