UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, DEEPER	N, OR PLUGBACKN 30 57 4 26
1a. 1b.	Type of Work DRILL Type of Well	5. Lease Number NMSF-078135 Unit Reporting Number NMNM-0783948 6. If Indian, All. or Tribe
	GAS MAR 2006	-
2.	Operator BURLINGTON RESCURCES Oil & Gas Company	7. Unit Agreement Name
		Huerfanito Unit
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name
	(505) 326-9700	9. Well Number #8015
4.	Location of Well Unit A (NENE), 395' FNL, 395' FEL	10. Field, Pool, Wildcat Basin Dakota
		11. Sec., Twn, Rge, Mer. (NMPM) Sec. 10, T26N, R9W
	Longitude 107° 46.0994'W	API# 30-045- 33565
14.	Distance in Miles from Nearest Town 15.3 miles to Bloomfield, NM	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease Line	
16.	Acres in Lease	17. Acres Assigned to Well 320 N/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or 838'- Huerfanito Unit #79	Applied for on this Lease
19.	Proposed Depth 6635'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6268'GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Amanda Sandova Regulatory Compliance Assistant II	1-30-06 Date
PERMI	T NO. APPROVAL DA	ATE
APPRO	OVED BY SHIMON LEON TITLE AFM	DATE <u>2/27/</u> 06

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.



DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

1000 Rio Brazos Rd., Aztec, N.M. 87410

UL or lot no.

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 June 10, 2003

Submit to Appropriate District Office

East/West line

State Lease - 4 Copies Fee Lease - 3 Copies

County

RECEIVED	AMENDED	REPORT

1220 South St. Francis Dr., Santa Fe, NM 87505

Section

Township

Range

✓	WELL LOCATION	AND ACREAGE DEDICATION PI	_AT	
API Number	Pool Code	³ Pool Name	2	
30-045 - <i>3300</i>	<i>0</i> 5 71599	Basin Dakota		
⁴ Property Code		⁵ Property Name		• Well Number
7138		HUERFANITO UNIT	-	80E
OGRID No.		⁸ Operator Name		* Elevation
14538 /	BURLINGTON RES	SOURCES OIL & GAS COMPANY LP	/	6268'

¹⁰ Surface Location

North/South line

Feet from the

Feet from the

Lot Idn

9-W NORTH Α 10 26-N 395 395 **EAST** SAN JUAN ¹¹ Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Feet from the North/South line Feet from the Section Township Range East/West line County ¹⁴ Consolidation Code B Dedicated Acres ¹³ Joint or Infill 15 Order No. 320 N/2

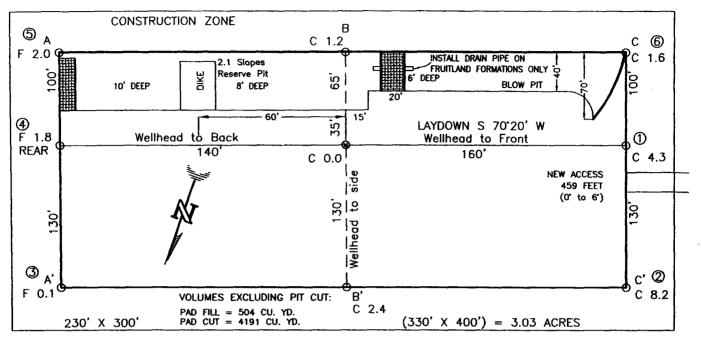
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

	OR A NON-STAN	DARD UNIT HAS B	EEN APPROVED	BY THE DIVISION
76	FD. 2 1/2 BC 1947 G.L.O. USA SF-078135		1/2" BC 399	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
				Frances Bond Signature
	LAT. 36°30.5 LONG. 107°46.0	313' N. (NAD 27) 994' W. (NAD 27)		Frances Bond Printed Name Regulatory Specialist
 		0		November 11, 2005
		U	N 00-01-00 W	and correct to the best of my belief.
			FD. 2 1/2" E 1947 G.L.	Signature for Seal or Profesional Surveyor:

Submit 3 Copies To Appropriate Distr	State of New	Mexico		Form C-103
District I	Energy, Minerals and I	Natural Resources	WELL THING	May 27, 2004
1625 N. French Dr., Hobbs, NM 8824 District II			WELL API NO. 30-045- 33	3565
1301 W. Grand Ave., Artesia, NM 88			5. Indicate Type of Lease	
District III	1220 South St. 1		STATE FEE 6. State Oil & Gas Lease No.	
1000 Rio Brazos Rd., Aztec, NM 874 District IV	Santa Fe, NN	4 87505	6. State Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM			NMSF-078135	
	OTICES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PLUG		7. Lease Name or Unit Agreement Nam	ne
1,	CATION FOR PERMIT" (FORM C-101) FOR		Huerfanito Unit	1
PROPOSALS.)			0. W. H.M.	
1. Type of Well: Oil Well Gas Well	X Other		8. Well Number #80E	
2. Name of Operator		***	9. OGRID Number	
BURLINGTON R 3. Address of Operator	ESOURCES OIL & GAS COMPAN	Y LP	10. Pool name or Wildcat	
•	STREET, FARMINGTON, NM 8740)2	Basin Dakota	
4. Well Location				
Unit Letter A : Section 10	395 feet from the No. 26N	rth line and	NMPM County	line San Juan
Section 10	11. Elevation (Show whether DR, RK		ANT W	
	62	68'		
Pit or Below-grade Tank Application	or Closure		10001 Pitture for a second surface	-4 (1000)
Pit type New Drill Depth to Gro	oundwater >100' Distance from near mil Below-Grade Tank:	Volume	>1000' Distance from nearest surface was bbls: Construction Material	ater <1000'
	ck Appropriate Box to Indica	ite Nature of No	· •	_
PERFORM REMEDIAL WORK	F INTENTION TO: PLUG AND ABANDON	REMEDIA	SUBSEQUENT REPORT OF	: G CASING ☐
TEMPORARILY ABANDON	CHANGE PLANS		CE DRILLING OPNS. P AND A	H
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/	CEMENT JOB	
OTHER:	New Drill	X OTHER:		
			give pertinent dates, including estimated	
of starting any proposed v or recompletion.	vork). SEE RULE 1103. For Multipl	e Completions: Atta	ch wellbore diagram of proposed complet	ion
or recompletion.				
New Drill, Lined:				
			pit. Based on Burlington's interpretation	
			ington's Revised Drilling / Workover Pit of the vent/flare pit will be designed to make	
=	the risk ranking criteria. Burlington	•		_
Pit Closure Procedure dated Au		resources americipates	s closing these pits according to the Diffi	ng / Workover
	gust 2, 2004 on file at the NMOCD of		s closing these pits according to the Diffi	ing / Workover
	gust 2, 2004 on file at the NMOCD o		s closing these pro according to the Diffin	ng / Workover
	gust 2, 2004 on file at the NMOCD of		s closing these pils according to the Diffin	ng / Workover
	gust 2, 2004 on file at the NMOCD o		s closing these pils according to the Diffin	ng / Workover
	gust 2, 2004 on file at the NMOCD o		s closing these pils according to the Diffin	ng / Workover
		ffice.		
I hereby certify that the informatio	n above is true and complete to the be	ffice. st of my knowledge a	and belief. I further certify that any pit or belo	W-
I hereby certify that the informatio	n above is true and complete to the be or closed according to NMOCD guidelines	st of my knowledge a		W-
I hereby certify that the informatio	n above is true and complete to the be or closed according to NMOCD guidelines	st of my knowledge a	and belief. I further certify that any pit or belo	W-
I hereby certify that the information grade tank has been/will be constructed of SIGNATURE Type or print name Ar	n above is true and complete to the be or closed according to NMOCD guidelines	st of my knowledge a], a general permit X [LE Regu	and belief. I further certify that any pit or belo or an (attached) alternative OCD-approved pi	w- an .
I hereby certify that the information grade tank has been/will be constructed of SIGNATURE	n above is true and complete to the be or closed according to NMOCD guidelines [st of my knowledge a	and belief. I further certify that any pit or below or an (attached) alternative OCD-approved plus or an (assistant II DATE	an . 1/17/2006

APPPROVED BY
Conditions of Approval (if any):

BURLINGTON RESOURCES OIL & GAS COMPANY LP HUERFANITO UNIT No.80E, 395 FNL 395 FEL SECTION 10, T-26-N, R-9-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO GROUND ELEVATION: 6268, DATE: OCTOBER 26, 2005



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: - ESTIMATED VOLUMES CALCULATED BY AVERAGE END AREA AT CROSS-SECTION SHOWN

DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERCROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

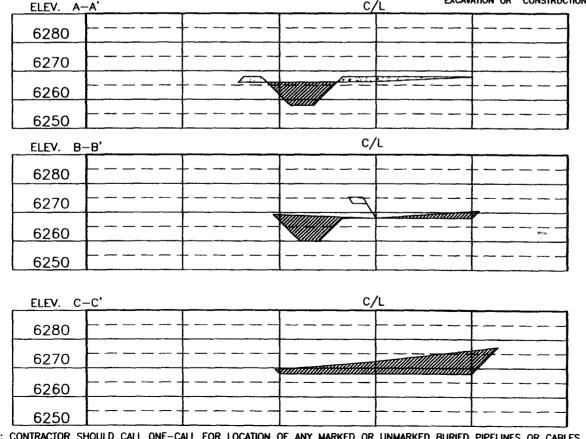
1. Box 15068 · Farmington, NM (505) 326-1772 · Fox (505) 33 NE-1772 · Fox (505) 33 NEW MEXICO P.L.S. No. 14831

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Oil Field

Daggett Surveying



NOTE: 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:

HUERFANITO UNIT 80E

Location:

395' FNL & 395' FEL, Section Sec 10 T26N R09W

San Juan County, New Mexico

Formation:

Basin Dakota

Elevation:

6268' GL

Formation Tops:	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1167'	
Ojo Alamo	1167'	1297'	aquifer
Kirtland	1297'	1810'	gas
Fruitland Coal	1810'	2010'	gas
Pictured Cliffs	2010'	2150'	gas
Lewis	2150'	2435 '	
Huerfanito Bentonite	2435'		
Chacra	2875'	3545'	gas
Massive Cliff House	3545'	3645 '	gas
Menefee	3645'	43371	gas
Massive Point Lookout	4337'	4613'	gas
Mancos Shale	4613'	5467'	
Upper Gallup	5467'	6310'	gas
Greenhorn	6310'	6363'	gas
Graneros	6363'	6388'	gas
Two Wells	6388'	6485'	gas
Paguate	6485'	6555'	gas
Cubero	6555 '	6620 '	gas
Encinal	6620'	6635'	gas
Total Depth:	6635'		gas

Logging Program:

Mud Logs/Coring/DST

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

Mud Program:

<u>Interval</u>	Type	Weight	<u>Vis.</u>	Fluid Loss
0 - 120 200	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120- 2250'	LSND	8.4 - 9.0	30 - 60	no control
2250 - 6635'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

C. HARRADEN/ January 31, 2006 Cat

BURLINGTON RESOURCES/ Huerfanito Unit #80E APD

STIPULATION/CONDITION OF APPROVAL

This well is located within a 'vulnerable area'. In order to protect the integrity of the alluvium aquifer, a minimum surface csg. depth of 200' is stipulated as a condition of approval for this APD.

7

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

<u> Hole Size</u>	Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 120'200	9 5/8"	32.3#	H-40
8 3/4"	0' - 2250'	7"	20/23#	J-55
6 1/4"	0' - 6635'	4 1/2"	10.5#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 6635'	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 -

9 5/8" x 7" x 4 $\frac{1}{2}$ " x 2 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:

9 5/8" surface casing -

Pre-Set Drilled - Cement with 28 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface under Conventionally Drilled Cement with 88 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. Viv3 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under 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. Test casing to 600 psi for 30 minutes.

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

7" intermediate casing -

Lead with 177 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90 sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (124 cu ft 50% excess to circulate to surface). WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage -

Stage collar set 300' above the top of the Fruitland. First stage: Lead w/20 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 157 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (334 cu ft - 50% excess to circulate to surface).

Cement nose quide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo @ 1297'. Two turbolating centralizers at the base of the Ojo Alamo @ 1297'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Pump 287 sxs Premium Lite HS FM w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss, 6% gel, 7 pps CSE (569 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 7" annulus). WOC a minimum of 18 hrs prior to completing.

Cementing: Continued

Cement float collar stacked on top of float shoe.

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

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

• 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 Mesa Verde and Dakota formations will be completed and commingled.
- 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 2000 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 North half of Section 10 is dedicated to the Dakota formation.
- This gas is dedicated.



to BOP. All BOP equipment to 2000 per working Figure #2

10-02-4

Figure #1