

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL,	DEEPEN, OR PLUG BACK	AM
1a.	Type of Work DRILL	RECEIVED NMSF-078388 070 FARMI D FARMIMOUnit Reporting Number	IVED HGT(
1b.	Type of Well GAS	NMNM 07 6 39 4 B 6. If Indian, All. or Tribe	
2.	Operator BURLINGTON RESOURCES Oil & Gas Company, LP	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 #91E	
4.	Location of Well Unit H (SENE), 1915' FNL & 780' FEL,	10. Field, Pool, Wildcat Basin Dakota	
	Latitude 36° 30.2682'N Longitude 107° 44.0550'W	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 12, T26N, R9W	
		API # 30-045- 3 374	
14.	Distance in Miles from Nearest Town	12. County 13. State San Juan NM	
15.	Distance from Proposed Location to Nearest Property or Le	ease Line	
16.	Acres in Lease	17. Acres Assigned to Well DK- 320 - N/2	
18.	Distance from Proposed Location to Nearest Well, Drlg, Co Twinned with the Huerfanito Unit #66R (PC	ompl, or Applied for on this Lease	
19.	Proposed Depth 6482'	20. Rotary or Cable Tools Rotary	
21.	Elevations (DF, FT, GR, Etc.) 6179' GL	22. Approx. Date Work will Start	
23.	Proposed Casing and Cementing Program See Operations Plan attached		
24.	Authorized by: Sr. Regulatory Specialist	5/11/06 Date	
	OVED BY AMAGINES OF TITLE A	DYAL DATE DATE	
Threa	tened and Endangered Species Report attached This format is issued in lieu of U.S. BLM Form 3160-3		
United	This format is issued in lieu of U.S. BLM Form 3160-3 U.S.C. Section 1001, makes it a crime for any person knowingly a States any false, fictitious or fraudulent statements or presentations	s as to any matter within its jurisdiction.	

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED SCENERAL REQUIREMENTS.

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District I PO Box \$980, Habbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

PO Drawer DD. Artesia, NM 88211-0719

OIL CONSERVATION DIVISION PO Box 2088

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Santa Fe, NM 87504-2088 MAY 11 PM

AMENDED REPORT

District IV PO Box 2088, Santa Fe. NM 87504-2088

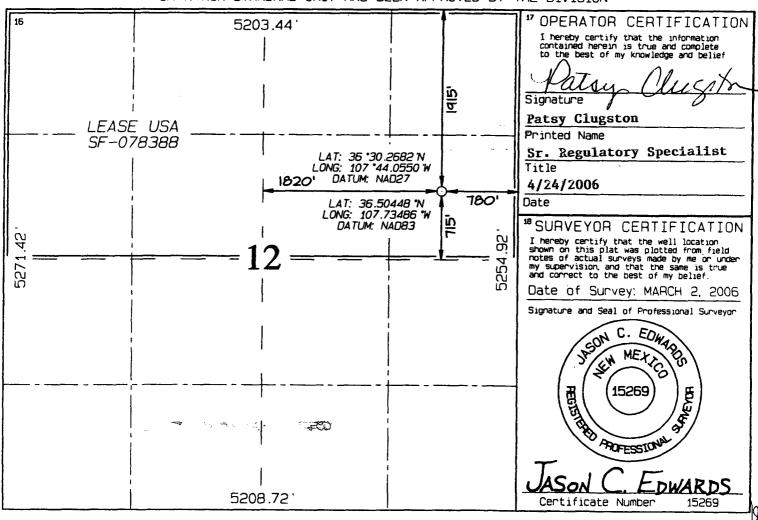
DK 320.0 ac N2

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLATER NAMED IN THE PROPERTY OF THE PROPE

'API Number 'Pool Co			de Pool Name ·							
30-045-	3376	41	715	99	Ва	sin Dakota				
¹ Property	Code				Property	/ Name			We	ll Number
7138			HUERFANITO UNIT				91E			
'OGRID No.			*Operator Name				*Elevation			
14538		BURLINGTON RESOURCES OIL & GAS COMPANY, LP					6179 ·			
					¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
Н	12	26N	9W		1915	NORTH	780	EAS	ST.	SAN JUAN
		11 E	ottom	Hole L	ocation I	f Different	From Surf	ace		<u></u>
UL or lot no.	Sect ion	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West	t line	County
Ħ										
2 Dedicated Acres			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



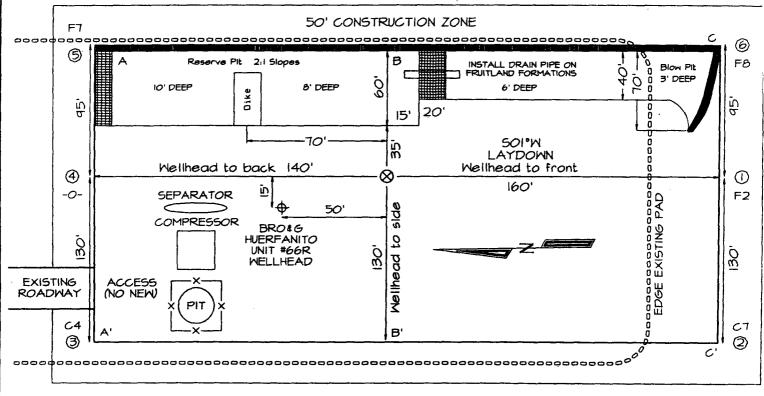
Submit 3 Copies To Appropriate District Office	State of New Mex	cico	Form C-103
District I	Energy, Minerals and Natura	Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO. 30-045- ,	32741
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION I	DIVISION 5. Indicate Type of Lease	20111
District III	1220 South St. Franc	\	EE 🔲
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 875		
District IV	·		·
1220 S. St. Francis Dr., Santa Fe, NM 87	ICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement	Name
	LS TO DRILL OR TO DEEPEN OR PLUG BACK		
	TION FOR PERMIT" (FORM C-101) FOR SUCH	Huerfanito Uni	it
PROPOSALS.) 1. Type of Well:		8. Well Number	· ·
Oil Well Gas Well X	Other	#91E	
2. Name of Operator		9. OGRID Number	
	SOURCES OIL & GAS COMPANY LP	10. Pool name or Wildcat	
3. Address of Operator 3401 E. 30TH ST	TREET, FARMINGTON, NM 87402	Basin Dakota	
4. Well Location			
Unit Letter H	1915' feet from the North Township 26N Ra	line and 780' feet from the East	
Section 12	Township 26N Ra 1. Elevation (Show whether DR, RKB, RT,	ange 9W NMPM County	San Juan
	6179' GL		
Pit or Below-grade Tank Application	or Closure		>200'
Pit type New Drill Depth to Groun	dwater <50' Distance from nearest fres	h water well >1000' Distance from nearest surf	ace water <1000'
Pit Liner Thickness: 12	mil Below-Grade Tank: Ve	blumebbls; Construction Material	
	INTENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	SUBSEQUENT REPORT REMEDIAL WORK COMMENCE DRILLING OPNS. CASING/CEMENT JOB	ERING CASING
_			F-7
13. Describe proposed or compl	eted operations. (Clearly state all pertine	other: It details, and give pertinent dates, including estimate pletions: Attach wellbore diagram of proposed corrections.	
Non-Daill Lined.			
New Drill, Lined:	complement of many defilling with and an according	and work/flows with Donald on Dunlington?	
Ecosphere's risk ranking criteria, Operation Procedures dated Nove that portion will be lined as per th	the new drilling pit will be a lined pit as d mber 11, 2004 on file at the NMOCD offi	ated vent/flare pit. Based on Burlington's interpret letailed in Burlington's Revised Drilling / Workove ce. A portion of the vent/flare pit will be designed roces anticipates closing these pits according to the	r Pit Construction / to manage fluids and
		ny knowledge and belief. I further certify that any pit of meral permit X or an (attached) alternative OCD-approximation	
SIGNATURE Patsy	Clust TITLE	Sr. Regulatory Analyst DA	TE <u>4/28/2006</u>
Type or print name Par For State Use Only	sy Clugston is mail address:	pclugston@br-inc.com Telephone No.	505-326-9518
APPPROVED BY Conditions of Approval (if any):	TITLE	DAY	TE JUN 0 1 2006

PLAT #1

BURLINGTON RESOURCES OIL & GAS COMPANY, LP HUERFANITO UNIT #91E, 1915' FNL & 780' FEL SECTION 12, T26N, R9W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6179' DATE: MARCH 2, 2006

LATITUDE: 36.50448° N LONGITUDE: 107.73486° W DATUM: NADI983

225' X 300' (325' x 400') = 2.98 ACRES



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.

A-A'

6189'

6179'

6189'

6179'

6169'

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 #91E

Location: 1915'FNL, 780' FEL, Section 12, T-26-N, R-9-W

San Juan County, New Mexico

Latitude 36° 30.2682′, Longitude 107° 44.0550′

Formation: Basin Dakota

Elevation: 6179'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	1121'	
Ojo Alamo	1121'	1233'	aquifer
Kirtland	1233'	2038'	gas
Fruitland	1746′	2285′	
Pictured Cliffs	1911'	2411'	gas
Lewis	2011'	2758′	gas
Huerfanito Bentonite	2361'	3185′	gas
Chacra	2793 <i>′</i>	3835'	gas
Cliff House	3466′	3943'	
Menefee	3561′	4595′	gas
Point Lookout	42381	4968'	gas
Mancos	4576 <i>′</i>	5785 <i>'</i>	gas
Gallup	5366 <i>′</i>	6585′	gas
Greenhorn	6204'	6638'	gas
Graneros	6258'	6672'	gas
Two Wells	6289′	6745′	
Paguate	6370 <i>′</i>	6809′	
Cubero	6433′	6860′	
Encinal	6492′		gas
TD	6482'		

Logging Program:

Mud Logs/Coring/DST -

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray - surface to TD

Mud Program:

Interval	<u>Type</u>	Weight	<u>Vis.</u>	Fluid Loss
0- 320'	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
320'- 6482'	LSND	8.4-9.0	30-60	no control

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

Hole Size	Depth Interval	Csg.Size Wt.	Grade
12 1/4"	0' - 320'	8 5/8" 24.0#	J-55
7 7/8"	0' - 6482'	4 1/2" 10.5#	J-55

Tubing Program: 0' - 6482' 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, BOPE 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, BOPE 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 $\frac{1}{2}$ " 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:

8 5/8" surface casing conventionally drilled Cement with 321 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 @ 4088'. First Stage: Lead with w/264 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: 441 sacks Premium Lite cmt w/3% calcium chloride, 0.4% metasilicate, 0.25 pps celloflake, 5 pps LCM-1 and 0.4% FL-52. (2185 cu ft - 50% 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 @ 1233'. Two turbolating centralizers at the base of the Ojo Alamo 1233'. 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 hydratic

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.

Special Drilling Operations (Air/Mist Drilling):

- 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 north half of Section 12 is dedicated to the Dakota formation.
- This gas is dedicated.

Date 5/10/06

Aliminum BOP installation for all Completion-Workey Operations. 7-1/16" bore, 2000 pel minimum working pressure double gate BOP to be equipped with blad pipe series. A stripping head to be installed on the to be accept. All BOP equipment is 2000 pal working pressure or greater concluding 500 pel stripping inset.

Figure 63

10-02-4

4-20-01