## **UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

a.	Type of Work DRILL	5. Lease Number I-149-IND-8473				
/ l <b>b</b> .	Type of Well  GAS  AUG 2001  RECEIVED	Unit Reporting Number  6. If Indian, All. or Tribe  Navajo Tribe				
2.	Operator  BURLINGTON  RESOURCES  Oil & Gas Company	7. Unit Agreement Name  Huerfanito Unit				
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name Huerfanito Unit 9. Well Number #46R				
1.	Location of Well 1245'FSL, 740'FWL  Latitude 36° 32.5', Longitude 107° 44.8'	10. Field, Pool, Wildcat Blanco Pict'd Cliffs Scuth 11. Sec., Twn, Rge, Mer. (NMPM)  M Sec. 25, T-27-N, R-9-W API # 30-045-30537				
14.	Distance in Miles from Nearest Town 30 miles from P.O. in Bloomfield, NM	12. County 13. State San Juan NM				
15.	Distance from Proposed Location to Nearest Property or Lease Line					
16.	740' Acres in Lease	17. Acres Assigned to Well				
18.	Distance from Proposed Location to Nearest Well, Drlg, Com	pl, or Applied for on this Lease				
19.	This action is subject to technical and Proposed Depth procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.3	20. Rotary or Cable Tools Rotary				
21.	Elevations (DF, FT, GR, Etc.) 6257′ GR	22. Approx. Date Work will Start				
23.	Proposed Casing and Cementing Program See Operations Plan attached	DRILLING OPERATIONS ANTHORITES SUBJECT TO C "GENERAL FO				
24.	Authorized by: Naguratory/Compliance Superviso:	1-9-0  r Date				
		L DATE				

Archaeological Report to be submitted
Threatened and Endangered Species Report to be submitted
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 I P.O. Box 1980, Hobbs, N.M. 88241-1980

# State of New Mexico Energy, Minerals & Notural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719 DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe. NM 87504-2088

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				Pool Code	AND AC	REAGE DEDI	3Pool Name	<del></del>		
	Number	30537	724		В	lanco P.C. S		•		
3()-1 Property Cod			1. 72.		<sup>5</sup> Property No			• ₩	ell Number	
7138					HUERFANITO	UNIT			46R	
OGRID No.					Operator N	ame		ļ	" Elevation	
14538			В	URLINGTO	N RESOURCES	OIL & GAS INC	· · · · · · · · · · · · · · · · · · ·		6257'	
					<sup>10</sup> Surface	Location	<del></del>			
L or lot no.	Section	Township	Ronge	Lot Idn	Fact from the	North/South line	Feet from the	East/West line	County	
M	25	27-N	9-W	·	1245	SOUTH	740	WEST	SAN JUAN	
		<u> </u>	11 Botto	om Hole		f Different Fr		·		
IL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
<b>D F L d A </b>	1	18.	pint or Infill		14 Consolidation Co	nde .	<sup>15</sup> Order No.			
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SW/ 160							1			
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		OR A	10N-ST/	ANDARD	UNIT HAS B	EEN APPROVE	D BY THE DI	VISION		
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00 z	I-149-	-IND-8473	***************************************			AUG 200 RECENOILOGN	of where records to	ertify that the well local from field notes of a my supervision, and the best of Polici A Sunky Cartes of Polici Cartes of Car	ERTIFICATION oftion shown on this pictual surveys made by at the same is true as RUCH	
740'	1245'	2.5' N. 17-44.8' W. 9-54-33 E		         FD 2	1/2* 947 BC		Certifica	8894	Surveyor.	

### OPERATIONS PLAN

Well Name: Huerfanito Unit #46R

1245'FSL, 740'FWL, Section 25, T-27-N, R-9-W Location:

San Juan County, New Mexico Latitude 36° 32.5', Longitude 107° 44.8'

Formation: Blanco Pictured Cliffs South

6257'GR Elevation:

Formation:	Top	Bottom	Contents
Surface Ojo Alamo Kirtland Fruitland Pictured Cliffs	San Jose 1291' 1413' 1769' 2125'	1291' 1413' 1769' 2125'	aquifer gas gas gas
Total Depth	Z3Z5"		

Logging Program: cased hole - CBL/GR/CCL TD to surface

Coring Program: None

## Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud		40-50	no control
120-2325'	FW	8.4-9.0	32-45	no control

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

Hole Size	Depth Interval	<u>Csg.Size</u>	Wt.	Grade
8 3/4"	0 - 120'	7"	20#	J-55
6 1/4"	0 - 2325 <b>′</b>	2 7/8"	6.5#	J-55

Float Equipment: 7" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

2 7/8" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Seven centralizers run every 3rd joint to the base of the Ojo Alamo @ 1413'. Two turbolizing type centralizers one below and one into the base of the Ojo Alamo @ 1413'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

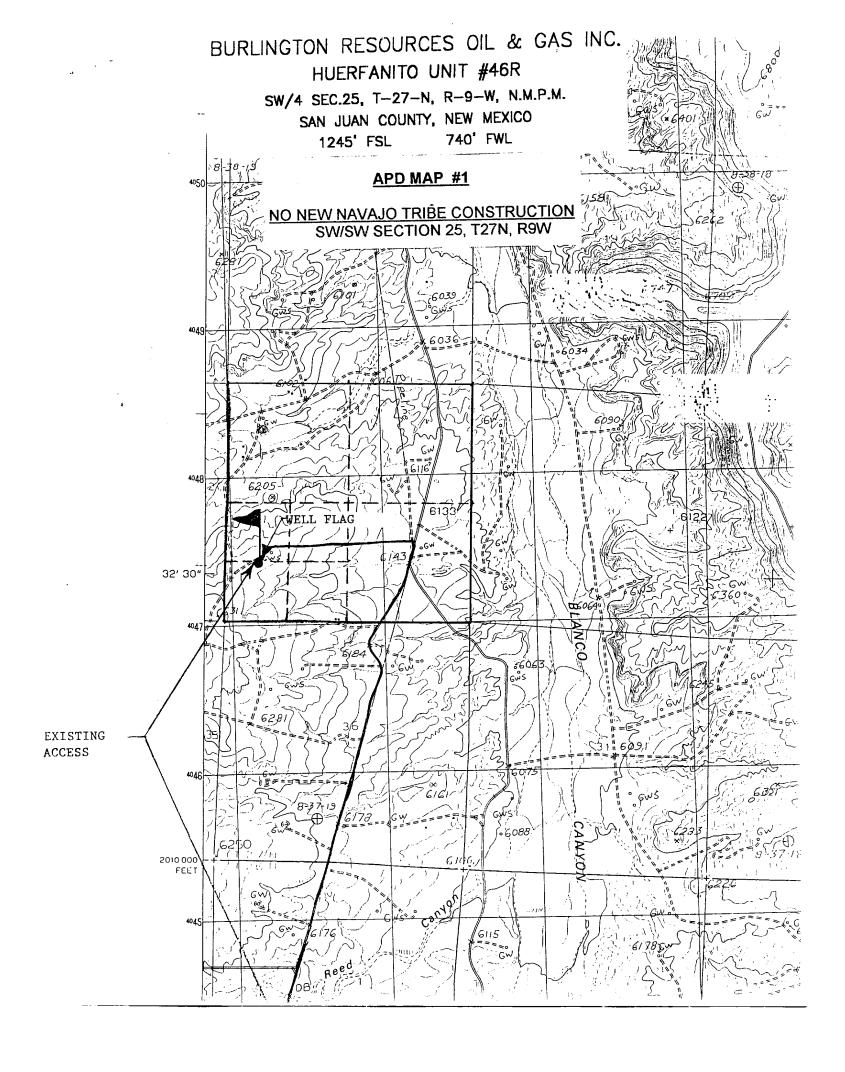
Wellhead Equipment: 7" x 2 7/8" 2000 psi screw on independent wellhead.

### Cementing:

7" surface casing - cement with 46 sx Class "H" cement with 1/4# flocele/sx and 3% calcium chloride (54 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

2 7/8" production casing - Lead w/258 sx Class "G" TXI lightweight cement w/2.5% sodium metasilicate, 1/2 pps flocele, 10 pps gilsonite, 2% calcium chloride, and 0.2% antifoam agent. Tail w/90 sx 50/50 Class "G" Poz w/2% gel, 2% calcium chloride, 1/4 pps flocele, 5 pps gilsonite, and 0.1% antifoam agent (781 cu.ft. of slurry, 100% excess to circulate to surface).

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



#### BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 7 1/16" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

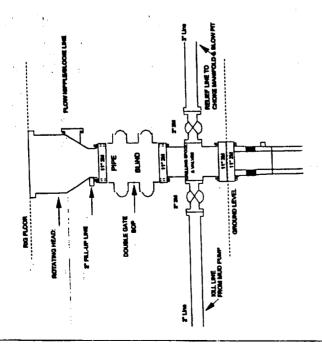
## Additional information:

- The Pictured Cliffs formation will be completed.
- Anticipated pore pressure for the Pictured Cliffs is 500 psi.
- This gas is dedicated.
- The southwest quarter of Section 25 is dedicated to the Pictured Cliffs.

1/12/01

Drilling Rig Choke Manifold Configuration 2000 psi System

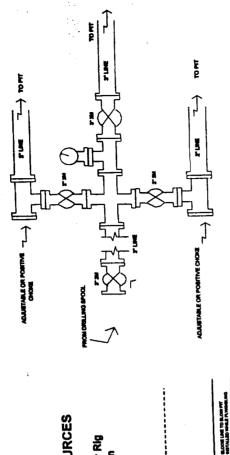
> Drilling Rig 2000 psi System



OP Installation from Surface Cashig Point to Total Deeth, 11\* Bor T Nominal, 2000 pal working greature double gate BCP to be apployed with brind rame and pipe rame. A colating head on bip of m craverines. All BCP equipment is 2,000 pal working presents

Check Valve

Figure #1



**BURLINGTON RESOURCES** 

Completion/Workover Rig BOP Configuration 2,000 psi System Choke manifold installation from Surface Casing Point to Total Depth. 2,000pal working preseure equipment with two chokes.

Figure #3

Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All equipment is 2000 psi working pressure or

Figure #2

greater.