UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

la.	Type of Work	5. Lease Number AUG 13 PM 2:		
	DRILL	SF-078135		
		Unit Reporting Number 070 Farmington, NI		
lb.	Type of Well	6. If Indian, All. or Tribe		
	GAS			
2.	Operator	7. Unit Agreement Name		
	BURLINGTON RESOURCES Oil & Gas Company			
	RESOURCES Oil & Gas Company	Huerfanito Unit		
3.	Address & Phone No. of Operator	8. Farm or Lease Name		
	PO Box 4289, Farmington, NM 87499			
	for a Maria sona	9. Well Number		
	(505) 326-9700	87M		
١.	Location of Well	10. Field, Pool, Wildcat		
	1360' FSL, 2265' FEL	Blanco MV/Basin DK		
	A Comment of the Comm	1. Sec., Twn, Rge, Mer. (NMPM)		
	Latitude 36° 30.8, Longitude 107° 44.4	Sec. 1, T-26-N, R-9-W		
		API# 30-045- 31840		
14.	Distance in Miles from Nearest Town	12. County 13. State		
15 M	iles Huerfanito Trading Post	San Juan NM		
15.	Distance from Proposed Location to Nearest Property or Lease 1360'	Line		
16.	Acres in Lease	17. Acres Assigned to Well		
		320.06 F/7 MV		
		3/2 VX		
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl,	or Applied for on this Lease		
	Distance from Proposed Location to Nearest Well, Drlg, Compl, 150' Proposed Depth	• •		
	150'	or Applied for on this Lease 20. Rotary or Cable Tools Rotary		
19.	150' Proposed Depth	20. Rotary or Cable Tools		
19.	150' Proposed Depth 6660	20. Rotary or Cable Tools Rotary		
19. 21.	Proposed Depth 6660 Elevations (DF, FT, GR, Etc.) 6163 GR Proposed Casing and Cementing Program	20. Rotary or Cable Tools Rotary		
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19. 21. 23.	Proposed Depth 6660 Elevations (DF, FT, GR, Etc.) 6163 GR Proposed Casing and Cementing Program See Operations Plan attached	20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start		
19. 21.	Proposed Depth 6660 Elevations (DF, FT, GR, Etc.) 6163 GR Proposed Casing and Cementing Program	20. Rotary or Cable Tools Rotary		

Archaeological Report to be submitted

APPROVED BY_

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.

TITLE _

DATE

DECEMEN

Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM B8211-0719

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

District IV PO Box 2088, Santa Fe, NM 87504-2088 Scale UI New Mexico Energy, Minerals & Natural Resources Department

Santa Fe. NM 87504-2088

OIL CONSERVATION DIVISION PO Box 2088

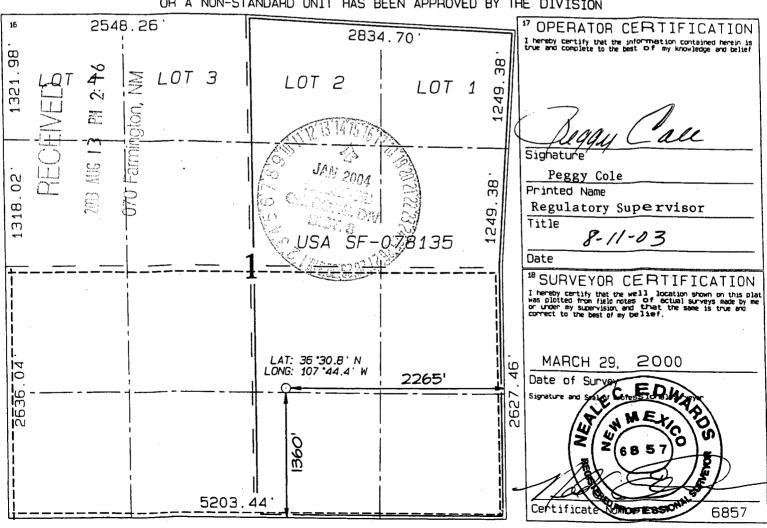
Revised Fe bruary 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-045 = 30309 3/840				*Pool Code - 72319/71599		³Pool Name Blanco Mesaverde/Basin Dakota				
			. 72							
'Property Code 7138				*Property Name HUERFANITO UNIT				8 7	° Well Number 87M	
'OGRID No.			*Operator Name					*Elevation		
14538 B			BURL I	JRLINGTON RESOURCES OIL & GAS COMPANY				6163'		
				1	^o Surface	Location				
UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County	
J	1	26N	9W		1360	SOUTH	2265	EAST	SAN JUAN	
			ottom	Hole L	ocation I	f Different	From Surf	ace _		
UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County	
S/320 - E/320.0	- DK	¹³ Joint or Inf	ill Mark	solidation Code	²⁵ Onder 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



OPERATIONS PLAN

Well Name: Huerfanito Unit 87M

Location: 1360' FSL, 2265' FEL, Sec.1, T-26-N, R-9-W

San Juan County, NM

Latitude 36° 30.8, Longitude 107° 44.4′

Formation: Blanco Mesaverde/Basin Dakota

Elevation: 6163' Gr

Formation Tops: Surface	<u>Top</u> San Jose	Bottom	<u>Contents</u>
Ojo Alamo	1097'	1220'	aquifer
Kirtland	1220''	1751 ′	gas
Fruitland	1751 '	1907 '	_
Pictured Cliffs	1907'	2017'	gas
Lewis	2017'	2372'	gas
Huerfanito Bentonite	2372 '	2802 '	gas
Chacra	2802 '	3462 '	gas
Massive Cliff House	3462 '	3552 ′	gas
Menefee	3552 '	4262 '	gas
Massive Point Lookout	4262 '	4549 '	gas ·
Mancos Shale	4549'	5376 ′	gas
Gallup	5376 ′	6207 '	gas
Greenhorn	6207'	6258'	gas
Graneros	6258 '	6293 '	gas
Dakota	6293 '	6567 '	gas
Morrison	6607 '	6660 ′	
TD	6660'		

Logging Program:

Open hole logs at Total Depth: Platform Express TD to 5300' and 4700' to 2000', GR/DIL: TD to surface Cased hole logs - GR/CBL TD to surface Cores - none

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 300'	Spud	8.4-9.0	40-50	no control
300'-6660'	LSND	8.4-9.0	30-60	no control

Pit levels will be visually monitored to detect gain or loss of fluid control.

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

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 300'	8 5/8"	24.0#	WC-50
7 7/8"	0' - 6660'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 6660' 2 3/8" 4.7# J-55 EUE

BOP Specifications, Wellhead and Tests:

Surface to 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.

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.

Surface to Total Depth -

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

Wellhead -

8 5/8" x 4 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 drilling crew.
- All BOP tests and 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 -

Cement to surface w/263 sx Type III cement w/3% calcium chloride and 1/4#/sx cellophane flakes (371 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs prior to drilling out surface casing. Test casing to 600 psi for 30 minutes.

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

4 1/2" Production Casing -

Lead w/ 302 sks Premium Lite w/ 3% calcium chloride, 0.25 pps cello-flake, 5 pps LCM-1, 0.4% fluid loss additive and 0.4% sodium metasilicate. Tail w/ 662 sks Premium Lite HS FM w/ 0.25 pps cello-flake, 0.3% CD-32, 6.25 pps LCM-1 and 1% fluid loss additive (1955 cu ft of slurry, 30% excess to circulate to surface). WOC a minimum of 18 hrs prior to completing.

4 1/2" production alternative Two Stage:

Production Casing Alternative Two-Stage: Stage collar at 4200'. First Stage: Tail w/ 359 sks Premium Lite HS FM w/ 0.25 pps cello-flake, 0.3% CD-32, 6.25 pps LCM-1 and 1% fluid loss additive. Second Stage: Lead w/ 302 sks Premium Lite w/ 3% calcium chloride, 0.25 pps cello-flake, 5 pps LCM-1, 0.4% fluid loss additive and 0.4% sodium metasilicate. Tail w/ 303 sks Premium Lite HS FM w/ 0.25 pps cello-flake, 0.3% CD-32, 6.25 pps LCM-1 and 1% fluid loss additive (1955 cu ft of slurry, 30% excess to circulate to surface).

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

Float shoe on bottom. Seven centralizers run every other joint above shoe. Centralizers - one every 4th joint to the base of the Ojo Alamo @ 1220'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1220'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.