

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

## Sundry Notices and Reports on Wells

97 OCT 27 PM 2:33

1. Type of Well  
GAS

OJO FNL, 1650' FWL, NM

5. Lease Number  
SF-076958
6. If Indian, All. or  
Tribe Name
7. Unit Agreement Name

2. Name of Operator

**BURLINGTON  
RESOURCES**

OIL &amp; GAS COMPANY

3. Address &amp; Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

1050' FNL, 1650' FWL, Sec. 23, T-29-N, R-10-W, NMPM

8. Well Name & Number  
Hare #19E
9. API Well No.  
30-045-23742
10. Field and Pool  
Blanco MV/Basin DK
11. County and State  
San Juan Co, NM

## 12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

## Type of Submission

## Type of Action

☒ Notice of Intent☐ Abandonment☐ Change of Plans☐ Subsequent Report☐ Recompletion☐ New Construction☐ Final Abandonment☐ Plugging Back☐ Non-Routine Fracturing☐ Casing Repair☐ Water Shut off☐ Altering Casing☐ Conversion to Injection☒ Other - Pay add and commingle

## 13. Describe Proposed or Completed Operations

It is intended to add pay to the Mesaverde formation of the subject well according to the attached procedure and wellbore diagram. The well will then be commingled. A down-hole commingle application will be filed.

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OIL CON. DIV.  
DIST. 3

## 14. I hereby certify that the foregoing is true and correct.

Signed *Regina S. [Signature]* (PMPOps) Title Regulatory Administrator Date 10/25/97

(This space for Federal or State Office use)

APPROVED BY /s/ Duane W. Spencer

Title \_\_\_\_\_

Date \_\_\_\_\_

OCT 30 1997

CONDITION OF APPROVAL, if any:

*Need OAC order*

NMOCB

HARE #19E MV  
Recompletion Procedure  
C 23 29 10  
San Juan County, N.M.  
Lat-Long: 36-42.96" - 107-51.43"

**PROJECT SUMMARY:** Open Menefee to existing MV to production and commingle with DK.

1. Comply to all NMOCD, BLM, and BROG rules and regulations. MOL and RU completion rig. NU 7-1/16" 3000 psi BOP w/flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line.
2. TOH w/139 Jts 1-1/2" tbg and lay down. Set blanking plug in S.N. of 2-1/16" tbg @ 6686' and pressure test to 2000 psi. TOH w/2-1/16" tbg and pkr. Run 5-1/2" csg scraper on 2-3/8" rental tbg work string to 4400'. TOH.
3. TIH w/5-1/2" retrievable BP on 2-3/8" tbg and set @ 4380' and top w/1 sx sand. Load hole w/1% KCL water. TOH. MI wireline. Run CBL from 4380' to find TOC above stg tool @ 4781' and correlate to attached open hole log. If necessary, pressure csg to 1000 psi for CBL log. **Hot-shot** log to Mike Pippin (326-9848) to determine if TOC is adequate. Pressure test csg to 1000 psi.
4. TIH w/2-3/8" tbg open ended and spot 300 gal 15% HCL acid across Menefee perms @ 4034'-4288'. TOH.  
All acid on this well to contain the following additives per 1000 gal:

2 gal	CI-22	corrosion inhibitor
5 gal	Ferrotrol-300L	iron control
1 gal	Flo-back 20	Surfactant
0.5 gal	Clay Master-5C	clay control
5. Perf Menefee w/ 21 holes @ 1 spf @ 4034', 43', 46', 53', 78', 4110', 14', 19', 21', 52', 55', 85', 4211', 23', 38', 50', 73', 78', 80', 86', 88'. Perf w/select fire HSC gun using HSC-3125-302T 10 gr Owen jets which should give a 0.29" hole and 16.64" of penetration in concrete.
6. Fill 6 - 400 bbl. frac tanks with 1% KCL water. If necessary, filter all water to 25 microns. Five tanks are for gel and one tank for breakdown water. Usable gel water required for frac is 1462 bbls.
7. TIH w/5-1/2" pkr on 3-1/2" 9 3# N-80 w/shaved collars (4.25" O.D. 2.992" I.D.) rental frac string & set @ 3800'. (Run 2 jts 2-7/8" N-80 tbg above pkr). W/ 500 psi on annulus, breakdown and attempt to balloff Menefee perms w/1500 gal 15% HCL acid and 52 RCN 7/8" 1.3 sp gr perf balls. Use same acid additives as in step #5. Max. pressure is 4800 psi. Lower pkr to 4300' to knock off perf balls. Reset pkr @ 3900'.
8. Pressure annulus to 500 psi and monitor during frac job. Frac Menefee w/60,000 gals. of 30# gel and 90,000# 20/40 Arizona sand. Pump at 40 BPM. Sand to be tagged w/ 3 RA tracers. Max. pressure is 5500 psi and estimated treating pressure is 4200 psi. Treat per the following schedule:

<u>Stage</u>	<u>Water (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Pad	15,000	—
1.0 ppg	10,000	10,000
2.0 ppg	25,000	50,000
3.0 ppg	10,000	30,000
Flush	<u>(1,424)</u>	<u>0</u>
Totals	60,000	90,000#


If well is on vacuum near end of frac job, cut flush as necessary to avoid overflushing and slow rate during flush. Frac with the following additives per 1000 gal frac fluid.

- \* 30# J-48 (Guar Gel mix in full tank - 16,000 gal)
- \* 1.0 gal. Aqua Flow (Non-ionic Surfactant mix in full tank)
- \* 1.0# gvw-3 (Enzyme Breaker mix on fly)
- \* 1.0# B-5 (Breaker mix on fly)
- \* 0.38# - Fracide 20 (Bactericide in full tank)

9. Shut well in for 4 hrs to let gel break.
10. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr. or less, if sand is observed. **Take pitot gauges when possible.** TOH w/pkr.
11. TIH w/retrieving tool on 2-3/8" tbg and C.O. (w/air/mist) to ret BP @ 4380' w/air/mist. Monitor gas and water returns and **Take pitot gauges when possible.** When well is sufficiently clean, retrieve BP @ 4380'. TOH.
12. TIH w/4-3/4" bit on 2-3/8" tbg and C.O. to PBTD 6699'. **Take pitot gauges when possible.**
13. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 4500' to 3800' and perf eff log across each set of perms from 6699'-3800'.
14. TIH and rabbit 2-1/16" 3.25 V-55 IJ tbg w/standard seating nipple one joint off bottom and again cleanout to 6699'. When wellbore is sufficiently clean, land tbg @ 6600' KB. **Take final water and gas samples and rates.**
15. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended:   
Production Engineer

Approved:  10/23/97  
Drilling Superintendent

Approved:   
Team Leader  
22 OCT 97 for J. CHOWELL

#### VENDORS:

Wireline:	Blue Jet	325-5584
Fracturing:	BJ	327-6222
RA Tag:	Pro-Technics	326-7133

PMP

## Pertinent Data Sheet - HARE #19E MV

**Location:** 1050' FNL & 1650' FWL, Unit C, Section 23, T29N, R10W, San Juan County, New Mexico

**Field:** Blanco Mesaverde

**Elevation:** 5746' GL  
12' KB

**TD:** 6703'

**PBTD:** 6699'

**Completed:** 4/10/80

**Spud Date:** 11/2/79

**DP #:** MV27247-DK27248

**LEASE:** Fed: SF 079962

**GWI:** 25%

**NRI:** 21%

**Prop#:** 0020373

**Initial Potential:** MV: AOF=1281 MCF/D; Q=1181 MCF/D; SICP=1047 PSI  
DK: AOF=391 MCF/D; Q=391 MCF/D; SICP=964 PSI

### Casing Record:

Hole Size	Csg Size	Wt. & Grade	Depth Set	Cement	Cmt Top
12-1/4"	9-5/8"	36# K-55	229'	200 sx	Circ Cmt
8-3/4"	5-1/2"	15.5# K-55	6703'	265 sx	5652' @75% Eff. **
		DV Tool @	4781'	300 sx	3730' @75% Eff.
		DV Tool @	2313'	300 sx	900' - Survey
				** Bottom of Cmt @ 6510' - CBL	

### Tubing Record:

Tbg. Size	Wt. & Grade	Depth Set	
2-1/16"	3.25# V-55 IJ	6687'	206 Jts
	Guiberson Uni-VI Pkr @	4629'	
		S.N. @ 6686'	
1-1/2"	2.76# V-55 IJ	4493'	139 Jts
		S.N. @ 4492'	

### Formation Tops:

Ojo Alamo	1095'	Gallup	5610'
Kirtland Shale	1200'	Dakota	6560'
Fruitland:	1791'		
Pictured Cliffs:	2100'		
Cliffhouse	3760'		
Point Lookout	4350'		

**Logging Record:** Induction, Density, CBL(2/80), After Frac Temp

**Stimulation:** Set drillable BP @ 6699' to enable well to pressure test to 3500 psi. Perf DK 10 holes w/1 spf @ 6569', 74', 83', 88', 6633', 47', 71', 78', 84', 90' & fraced w/68,200# sand in slickwater.

Perfed Point Lookout w/11 holes & 1 spf @ 4394', 4403', 11', 19', 24', 35', 40', 50', 62', 79', 4517' & fraced w/57,000# sand in slick water.

**Workover History:** NONE

**Production History:** 1st delivered 7/2/80. Current MV capacity is 48 MCF/D. MV cum is 467 MMCF.  
DK capacity is 65 MCF/D & cum is 305 MMCF.

**Pipeline:** Williams Field Service

# HARE #19E MV

UNIT C SECTION 23 T29N R10W  
SAN JUAN COUNTY, NEW MEXICO

