

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well  
GAS

2. Name of Operator

**BURLINGTON**  
**RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

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

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

900' FNL, 1510' FEL, Sec. 15, T-29-N, R-10-W, NMPM

5. Lease Number  
SF-076958

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

8. Well Name & Number  
Hare #17

9. API Well No.  
30-045-08400

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

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Final Abandonment

☐ Altering Casing

☐ Conversion to Injection

☒ Other - Commingle

13. Describe Proposed or Completed Operations

It is intended to add the Mesaverde formation to the subject well according to the attached procedure and wellbore diagram. The well will then be down-hole commingled. A down-hole commingle order will be applied for.

RECEIVED  
DEC 19 1997  
OIL CON. DIV.  
DIST. 3

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

Signed *Danah B. Bahr* (PMPOpps) Title Regulatory Administrator Date 12/11/97

(This space for Federal or State Office use)

APPROVED BY */s/ Duane W. Spencer* Title \_\_\_\_\_ Date DEC 17 1997

CONDITION OF APPROVAL, if any:

NMOC

District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
PO Drawer DD, Artesia, NM 88211-0719

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

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-  
Revised February 21, 1997  
Instructions on b  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACCESSION DEDICATION PLAT

*API Number	*Pool Code	*Pool Name
30-045-08400	72319/71599	Blanco Mesaverde/Basin Dakota
*Property Code	*Property Name	*Well Number
7091	HARE	17M
*GRID No.	*Operator Name	*Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	5748'

10 Surface Location

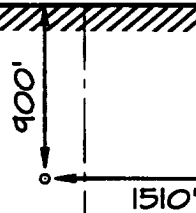



UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	15	29N	10W		900	NORTH	1510	EAST	SAN JU

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

*Dedicated Acres	*Joint or Infill	*Consolidation Code	*Order No.
MV-N/318.38 DK-N/318.38			

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

NOT RESURVEYED. PREPARED FROM A PLAT BY ERNEST V. ECHOHAWK DATED 5-14-62.		17 OPERATOR CERTIFICATION
		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
15		
		Signature Peggy Bradfield Printed Name Regulatory Administrator Title 12-11-97 Date
RECEIVED DEC 19 1997 OIL CON. DIV. DIST. 3		18 SURVEYOR CERTIFICATION
		I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief.
		DECEMBER 2, 1997 Date of Survey Signature and Seal of Registered Surveyor Certificate Number

HARE #17 MV-DK  
Recompletion Procedure  
B 15 29 10  
San Juan County, N.M.  
Lat-Long: 36-43.88" - 107-52.07"

**PROJECT SUMMARY:** Open the Mesaverde in this existing Dakota well and commingle.

1. Comply to all NMOC, 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/2-3/8" tbg. Run 4-1/2" csg scraper on 2-3/8" tbg w/S.N. just above scraper to 4570'. Set blanking plug in S.N. and pressure test 2-3/8" tbg to 2000 psi. TOH. Run 4-1/2" retrievable BP on 2-3/8" tbg and set @ 4560' and top w/1 sx sand.
3. W/2-3/8" tbg @ 4558', load hole w/1% KCL water. TOH.
4. Run CBL from 4558' to find TOC above DV tool @ 4567' and an advanced integrated data processed GSL neutron log 4567'-3900' and correlate to attached open hole log. If necessary, pressure csg to 1000 psi for CBL log. **Hot-shot** logs to Mike Pippin (326-9848) to determine location of MV perfs. Pressure test 4-1/2" csg to 1000 psi.

**POINT LOOKOUT:**

5. TIH w/2-3/8" tbg open ended and spot 150 gal 15% HCL acid across Point Lookout perfs @ about ~4360'-4550'. 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
6. Using GSL log, perf Point Lookout w/about 20 holes @ 1 spf @ about 4360' to 4550'. 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.
7. 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 1453 bbls.
8. TIH w/4-1/2" pkr on 2-7/8" 6.5# N-80 w/shaved collars (3.5" O.D. 2.441" I.D.) rental frac string and set @ 4550' and pressure test ret BP @ 4560' to 3000 psi, then reset pkr @ 4100'. (Run 2 jts 2-3/8" N-80 on top of pkr). W/ 500 psi on annulus, breakdown and attempt to balloff Point Lookout perfs w/1500 gal 15% HCL acid and 150% excess RCN 7/8" 1.3 sp gr perf balls. Use same acid additives as in step #5. Max. pressure is 4300 psi. Lower pkr to 4555' to knock off perf balls. Reset pkr @ 4300'.
9. Pressure annulus to 500 psi and monitor during frac job. Frac Point Lookout 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:

HARE #17 MV-DK - OPEN AND FRAC MV AND COMMINGLE W/EXISTING DK

<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>(1,045)</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)

10. Shut well in for 4 hrs to let gel break. TOH w/2-7/8" tbg and pkr. TIH w/3-7/8" bit on 2-3/8" tbg and C.O. Point Lookout w/air/mist to insure a ret BP can be set @ 4330'.

**MENEFEE:**

11. Set ret BP @ 4330' on wireline and top w/1 sx sand. TIH w/4-1/2" pkr on 2-3/8" tbg and set @ 4290'. Pressure test BP @ 4330' to 3000 psi. Spot 200 gal 15% HCL acid across Menefee perfs at about ~4025'~4290'. Use same acid additives as in step #5. ~~TOOK W/ TBG + PKR.~~
12. Using GSL log, perf Menefee w/about 20 holes @ 1 spf. 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.
13. 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 1452 bbls.
14. TIH w/4-1/2" pkr on 2-7/8" 6.5# N-80 w/shaved collars (3.5" O.D. 2.441" I.D.) rental frac string and set pkr @ 3800'. (Run 2 jts 2-3/8" N-80 on top of pkr). W/ 500 psi on annulus, breakdown and attempt to balloff Menefee perfs w/1500 gal 15% HCL acid and 150% excess RCN 7/8" 1.3 sp gr perf balls. Use same acid additives as in step #5. Max. pressure is 4300 psi. Lower pkr to 4300' to knock off perf balls. Reset pkr @ 4000' and prepare to frac.
15. 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>(972)</u>	<u>0</u>
Totals	60,000	90,000#

HARE #17 MV-DK - OPEN AND FRAC MV AND COMMINGLE W/EXISTING DK

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.

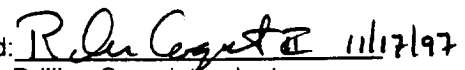
- |                      |  |
|----------------------|--|
| * 30# J-48           | (Guar Gel mix in full tank - 16,000 gal) |
| * 1.0 gal. Aqua Flow | (Non-ionic Surfactant mix in full tank)  |
| * 1.0# gvw-3         | (Enzyme Breaker mix on fly)              |
| * 1.0# B-5           | (Breaker mix on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

16. Shut well in for 4 hrs to let gel break.
17. 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.
18. TIH w/retrieving tool on 2-3/8" tbg and C.O. to ret BP @ 4330' w/air/mist. Monitor gas and water returns and **Take pitot gauges when possible.** When well is sufficiently clean, retrieve BP @ 4330'. TOH.
19. TIH w/retrieving tool on 2-3/8" tbg and C.O. (w/air/mist) to ret BP @ 4560'. **Take pitot gauges when possible.** When well is sufficiently clean, retrieve BP @ 4560' and TOH.
20. TIH w/3-7/8" bit on 2-3/8" tbg and C.O. to PBTD6789' w/air/mist. **Take pitot gauges when possible.**
21. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 4570'-3900 and perf eff log across all perf intervals from 6632'-3900'.
22. TIH and rabbit 2-3/8" 4.7# J-55 tbg w/standard seating nipple one joint off bottom and again cleanout to 6789'. When wellbore is sufficiently clean, land tbg @ 6600 KB. **Take final water and gas rates.**
23. ND BOP and NU wellhead and tree. Rig down and release rig.


Recommended:

  
Production Engineer

Approved:

 11/17/97  
Drilling Superintendent

Approved:

 11/16/97  
Team Leader

VENDORS:

Wireline:	Blue Jet	325-5584
Fracturing:	Howco	325-3575
RA Tag:	Pro-Technics	326-7133

PMP

**Pertinent Data Sheet - HARE #17 MV-DK**

B 15 29 10

**Location:** 900' FNL & 1510' FEL, Unit B Section 15 T29N, R10W, San Juan County, New Mexico

**Field:** Blanco Mesaverde  
Basin Dakota  
**Completion Date:** 6/10/62

**Elevation:** 5746' GL  
11' KB

**TD:** 6804'  
**PBTD:** 6789'

**Spud Date:** 5/25/62

100% SRC Trust

**Lease#:** Fed. SF-076958  
**DK DP #:** 27242  
**MV DP#:** 34037A-3  
**GWl:** 25%  
**NRI:** 21%  
**Prop#:** 0020373

**Initial Potential:**

DK: AOF=3027 MCF/D, Q=2865 MCF/D, SICP=2037 PSI

**Casing Record:**

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
e12-1/4"	8-5/8"	24# J-55	305'	280 sx	Cmt Circ
7-7/8"	4-1/2"	9.5&11.6#J-55	6804'	225 sx	5930'@75% Eff.*
		Stg Tool @	4567'	450 sx	2819'@75% Eff.**
					*5560' - Survey
					**2000' - Survey

**Tubing Record:**

2-3/8"	4.7# J-55	6494'	204 Jts
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**Formation Tops:**

Ojo Alamo:	940'		
Kirtland Shale:	1063'	Cliffhouse	3807'
Fruitland:	1860	Point Lookout	4348'
Pictured Cliffs:	2140'	Gallup	5653'
		Dakota	6598'

**Logging Record:** Induction Log

**Stimulation:** Perfed DK w/4 spf @ 6536'-50', 6600'-32', & fraced w/45,000# sand in water.

**Workover History:** NONE

**Production History:** 1st delivered DK 9/20/62. DK cum = 2,660 MMCF & 15,457 BO. See attached DK production curve. Current DK production is 45 MCF/D.

**Pipeline:** Williams Field Service

# HARE #17 MV-DK

UNIT B SECTION 15 T29N R10W  
SAN JUAN COUNTY, NEW MEXICO

