

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

1540' FNL, 1020' FEL, Sec. 18, T-29-N, R-10-W, NMPM

5. Lease Number
SF-078716A

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Hubbell #3E

9. API Well No.
30-045-23881

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

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☒ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other - Commingle

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

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

RECEIVED

FEB 24 1998

OIL CON. DIV.
111.3

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

Signed Peggy Brachnick (PMPOpps) Title Regulatory Administrator Date 2/12/98

(This space for Federal or State Office use)

APPROVED BY Acting Team Lead Title Acting Team Lead Date 2/18/98

CONDITION OF APPROVAL, if any:

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

District II
PO Drawer 00, 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,
Instructions on
Submit to Appropriate District Of
State Lease - 4 Co.
Fee Lease - 3 Co.

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-045-23881	72319/71599	Blanco Mesaverde/Basin Dakota
Property Code	Property Name	Well Number
7133	HUBBELL	3-E
OGRIID No.	Operator Name	Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	5619'

10 Surface Location

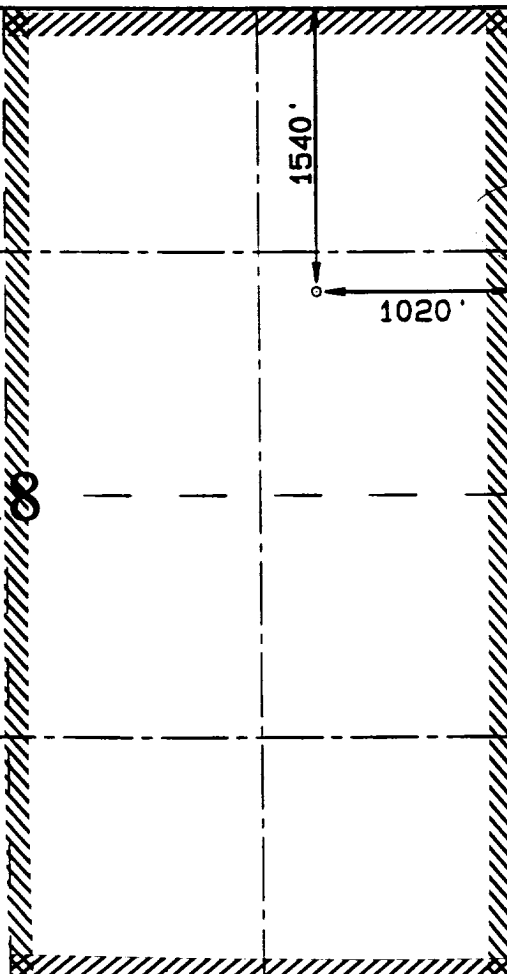
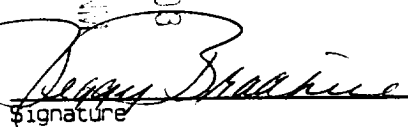

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	18	29N	10W		1540	North	1020	East	SAN JUAN

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-E/320.35 DK-E/320.35			

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

15	16	17 OPERATOR CERTIFICATION
*Not re-surveyed: Prepared from plat By: Fred B. Kerr Jr. Dated: 12 September, 1979		I hereby certify that the information contained here is true and complete to the best of my knowledge and belief.
		 Signature
		Peggy Bradfield Printed Name
		Regulatory Administrator Title
		1-16-98 Date
		18 SURVEYOR CERTIFICATION
		I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made, or under my supervision, and that the same is true and correct to the best of my belief.
		JANUARY 6, 1998 Date of Survey
		Signature and Seal of Professional Surveyor
		
		8857 Certificate Number

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FEB 24 1998
OIL CON. DIV.
DIST. 3

HUBBELL #3E MV-DK
Recompletion Procedure
H 18 29 10
San Juan County, N.M.
Lat-Long: 36-43.73" - 107-55.18"

PROJECT SUMMARY: Open the Mesaverde in this existing 1981 vintage 4-1/2" cased Dakota well and commingle.

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. Set blanking plug in S.N. @ 6493' in 2-3/8" tbg and pressure test tbg to 2000 psi. TOH w/2-3/8" tbg. Run 4-1/2" csg scraper on 2-3/8" tbg to 4800". TOH. Run 4-1/2" retrievable BP on 2-3/8" tbg and set @ 4800" and top w/1 sx sand.
3. W/2-3/8" tbg @ 4780', load hole w/1% KCL water. TOH.
4. Run CBL from 4780' to find TOC above DV tool @ 4982' and above DV tool @ 2166' and an advanced integrated data processed GSL neutron log 4780'-3500' and correlate to attached open hole log. If necessary, pressure csg to 800 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 800 psi.

POINT LOOKOUT:

5. TIH w/2-3/8" tbg open ended and spot 150 gal 15% HCL acid across Point Lookout perfs @ about ~4653'-4432'. 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 4432' to 4653'. 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 @ 4780' and pressure test ret BP @ 4800' to 3000 psi, then reset pkr @ 4200'. (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 4700 psi. Lower pkr to 4660' 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 35 BPM. Sand to be tagged w/ 3 RA tracers. Max. pressure is 5500 psi and estimated treating pressure is 4200 psi. Frac string friction @ 30 BPM is 2816 psi. Treat per the following schedule:

HUBBELL #3E 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>(1,070)</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 @ 4400'.

MENEFEE:

11. Set ret BP @ 4400' on wireline and top w/1 sx sand. TIH w/4-1/2" pkr on 2-3/8" tbg and set @ 4390'. Pressure test BP @ 4400' to 3000 psi. Spot 270 gal 15% HCL acid across Menefee perfs at about ~4384'~3980'. Use same acid additives as in step #5.
12. Using GSL log, perf Menefee w/about 20 holes @ 1 spf @ about 3980'-4384'. 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 1690 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 @ 3700'. (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 4700 psi. Lower pkr to 4390' to knock off perf balls. Reset pkr @ 3900' and prepare to frac.
15. Pressure annulus to 500 psi and monitor during frac job. Frac Menefee w/70,000 gals. of 30# gel and 120,000# 20/40 Arizona sand. Pump at 35 BPM. Sand to be tagged w/ 3 RA tracers. Max. pressure is 5500 psi and estimated treating pressure is 4200 psi. Frac string friction @ 30 BPM is 2816 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	20,000	60,000
Flush	<u>(948)</u>	<u>0</u>
Totals	70,000	120,000#

HUBBELL #3E 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 @ 4400' w/air/mist. Monitor gas and water returns and **Take pitot gauges when possible.** When well is sufficiently clean, retrieve BP @ 4400'. TOH.
19. TIH w/retrieving tool on 2-3/8" tbg and C.O. (w/air/mist) to ret BP @ 4800'. **Take pitot gauges when possible.** When well is sufficiently clean, retrieve BP @ 4800' and TOH.
20. TIH w/3-7/8" bit on 2-3/8" tbg and C.O. to PBTD 6624' w/air/mist. **Take pitot gauges when possible.**
21. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 4800'-3700 and perf eff log across all perf intervals from 6557'-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 6450'. When wellbore is sufficiently clean, land tbg @ 6650 KB. **Take final water and gas rates.**
23. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended:  12/2/97
Production Engineer

Approved:  12/17/97
Drilling Superintendent

Approved:  12/16/97
Team Leader

VENDORS:

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

PMP

Pertinent Data Sheet - HUBBELL #3E MV-DK

Location: 1540' FNL & 1020' FEL, Unit H, Section 18, T29N, R10W, San Juan County, New Mexico

Field: Blanco Mesaverde
Basin Dakota

Elevation: 5622' GL
10' KB

TD: 6641'
PBTD: 6624'

Completed: 4/6/81

Spud Date: 12/10/80

DP #: MV34326A-DK50553A
LEASE: Fed: SF 078716A
GWI: 100%
NRI: 84%
Prop#: 012568000

Initial Potential: DK: After frac gauge = 166 MCF/D; SICP=1247 PSI

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cmt Top</u>
12-1/4"	8-5/8"	24# J-55	216'	165 cf	Circ Cmt
7-7/8"	4-1/2"	10.5# J-55	6641'	364 cf	5442' @ 75% Eff.
		DV Tool @	4982'	549 cf	3174' @ 75% Eff.
		DV Tool @	2166'	616 cf	1000' - Survey

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	
2-3/8"	4.7# J-55	6525'	208 Jts
	S.N. @	6493'	

Formation Tops:

Ojo Alamo	513'	Gallup	5495'
Kirtland Shale	834'	Dakota	6440'
Fruitland:	1700'		
Pictured Cliffs:	1938'		
Mesaverde	3510'		
Menefee	3632'		
Point Lookout	4454'		

Logging Record: Induction, Density.

Stimulation: Perf DK w/1 spf @ 6448', 56', 64', 72', 80', 6513', 34', 56' & fraced w/125,000# sand in water.

Workover History: NONE

Production History: DK 1st delivered 1981. DK capacity is 85 MCF/D & cum is 665 MMCF & 4677 BO. Line pressure is about 40 psi and the DK is on a plunger lift system.

Pipeline: EPNG

HUBBELL #3E MV-DK

UNIT H SECTION 18 T29N R10W
SAN JUAN COUNTY, NEW MEXICO

