

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports on Wells

57 DEC 15 PM 2:10

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

1750' FSL, 1755' FEL, Sec. 4, T-29-N, R-10-W, NMPM

DHC-1733

5. Lease Number

SF-078197

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Feuille A #5

9. API Well No.
30-045-08693

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 - Commingle

13. Describe Proposed or Completed Operations

It is intended to recomplate the subject well in the Mesaverde formation according to the attached procedure and wellbore diagram. The well will then be commingled under DHC-1733.

RECEIVED
DEC 19 1997

OIL CON. DIV.
DIST. 3

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

Signed [Signature] (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:

(5)

NMOC

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-1
Revised February 21, 1997
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

97 DEC 15 PM 2:10

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-045-08693	'Pool Code .72319/71599	'Pool Name Blanco Mesaverde/Basin Dakota
'Property Code 7015	'Property Name FEUILLE A	'Well Number 5
'OGRID No. 14538	'Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	'Elevation 5859'

¹⁰ Surface Location


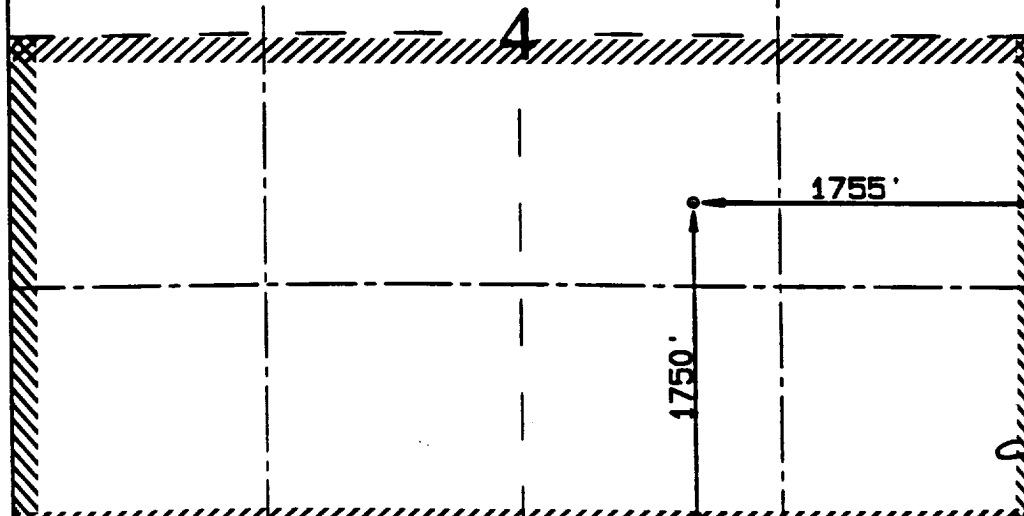
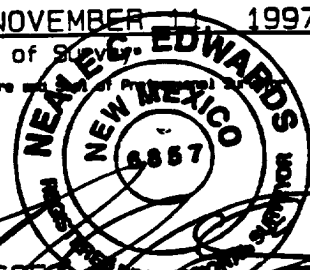
UL or lot no. J	Section 4	Township 29N	Range 10W	Lot Idn	Feet from the 1750	North/South line South	Feet from the 1755	East/West line East	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres MV-S/320 DK-S/320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order no.
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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

<div>16</div> <div>RECEIVED DEC 19 1997 OIL CON. DIV. DIST. 3</div>	<div>*Not re-surveyed: Prepared from plat By: James P. Leese Dated: September 23, 1962</div>	<div>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</div> <div> Signature Peggy Bradfield Printed Name Regulatory Administrator Title 12-11-97 Date</div>
<div>18</div> <div></div>		<div>19 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.</div> <div>NOVEMBER 11 1997 Date of Survey Signature of Surveyor  Certificate Number</div>

FEUILLE A #5 MV-DK
Recompletion Procedure
J 4 29 10
San Juan County, N.M.
Lat-Long: 36-45.16" - 107-53.19"

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

1. Comply to all NMOCD, BLM, and MOI 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. of 2-3/8" tbg @ 6782' and test to 3000 psi. TOH w/2-3/8" tbg. Run 4-1/2" csg scraper on 2-3/8" tbg to 5000'. TOH. Run 4-1/2" drillable BP on 2-3/8" tbg and set @ 5000'. Spot 1 sx sand on BP.
3. W/tbg @4980' load hole w/1% KCL water. TOH.
4. MI wireline truck. Run CBL and an advanced integrated data processed GSL neutron log 5000'-3800' 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 sq holes and MV perfs. Pressure test csg to 800 psi.

CMT SQ FOR BARRIER BELOW MV:

5. Using logs, perf 4 sq holes. TIH w/4-1/2" pkr on 2-3/8" tbg and set @ 4700'. Pump 5 bbl fresh water and sq w/65 sx (86 cf) 50-50 POZ, w/1% Cacl2, and 1/4 #/sx celoflac, and 3#/sx gilsonite. If necessary, hesitate after cmt is below pkr. Try to hold sq pressure of 1000 psi for 30 min then release pkr and reverse out cmt. Reset pkr and repressure and WOC overnight. TOH.
6. TIH w/3-7/8" bit on 2-3/8" tbg and drill cmt and C.O. w/water to BP @ 5000'. Pressure test to 800 psi. Run CBL to determine cmt above sq holes. MI Blue Jet. Using wireline, set CIBP just above sq holes.

POINT LOOKOUT:

7. TIH w/2-3/8" tbg open ended and spot 250 gal 7-1/2% HCL acid across Point Lookout perfs @ about ~4480'-4830'. 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
8. Using GSL log, perf Point Lookout 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.
9. 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 1499 bbls.

10. 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 @ 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 perms 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 #7. Max. pressure is 4700 psi. Lower pkr to 4900' to knock off perf balls. Reset pkr @ 4400'.
11. 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 30 BPM. Sand to be tagged w/ 3 RA tracers. Max. pressure is 4700 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	(2,948)	0
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) |

12. Shut well in for 6 hrs to let gel break. TOH w/2-7/8" tbg and pkr. Run gauge ring on sand line to insure a ret BP can be set @ 4450'. If any problems are encountered, TIH w/3-7/8" bit on 2-3/8" tbg and C.O. Point Lookout to 4450'.

MENEFEE:

13. Set ret BP @ 4450' on wireline and top w/1 sx sand. TIH w/4-1/2" pkr on 2-3/8" tbg to 4430' and pressure test ret BP @ 4450' to 3000 psi. Spot 300 gal 7-1/2" HCL acid across Menefee perms at about ~4020'~4420'. Use same acid additives as in step #7.
14. 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.
15. 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 1492 bbls.
16. 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 @ 3800'. (Run 2 jts 2-3/8" N-80 on top of pkr). W/ 500 psi on annulus, breakdown and attempt to balloff Menefee perms 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 #7. Max. pressure is 4700 psi. Lower pkr to 4440' to knock off perf balls. Reset pkr @ 3980'.
17. 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 30 BPM. Sand to be tagged w/ 3 RA tracers. Max. pressure is 4700 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>(2,646)</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) |

18. Shut well in for 6 hrs to let gel break.
19. 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.
20. TIH w/retrieving tool on 2-3/8" tbg and C.O. (w/air/mist) to ret BP @ 4450' w/air/mist. Monitor gas and water returns and **Take pitot gauges when possible.** When well is sufficiently clean, retrieve BP @ 4450'. TOH.
21. TIH w/3-7/8" bit on 2-3/8" tbg and C.O. (w/air/mist) to CIBP set just above sq perms. **Take pitot gauges when possible.** When well is sufficiently clean, drill BP.
22. Drill and C.O. (w/air/mist) drillable BP @ 4900' w/air/mist. Continue C.O. to PBTD 6900'. **Take pitot gauges when possible.**
23. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 4900'-3800' and perf eff log over all perf intervals from 6900'-3800'.
24. TIH w/2-3/8" 4.7# J-55 EUE tbg w/standard seating nipple one joint off bottom and again cleanout to 6900'. When wellbore is sufficiently clean, land tbg @ 6750' KB. **Take final water and gas samples and rates.**
25. ND BOP and NU wellhead and tree. Rig down and release rig.

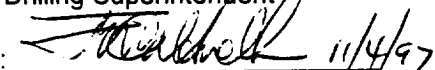
Recommended:


Production Engineer

Approved:


Drilling Superintendent

Approved:


Team Leader

FEUILLE A #5 MV-DK - OPEN AND FRAC MV AND COMMINGLE W/EXISTING DK

VENDORS:

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

PMP

Pertinent Data Sheet - FEUILLE A #5 MV

J 4 29 10

Location: 1750' FSL & 1755' FEL, Unit J Section 4, T29N, R10W, San Juan County, New Mexico

Field: Blanco Mesaverde

Elevation: 5865' GL
N/A

TD: 6930'

PBTD: 6900'

Spud Date: 12/19/62

Lease#: Fed. SF-078197

DK DP #: 50682A

MV DP#: 50682B

GWl: 75.00%

NRI: 63.18%

Prop#: 012568101

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
12-1/4"	8-5/8"	24# J-55	293'	200 sx	Circ Cmt
7-7/8"	4-1/2"	11.6&10.5#J-55	6930'	270 sx	5581'@75% Eff.
		Stage Tool @	4467'	135 sx	3943'@75% Eff.
		Stage Tool @	2391'	100 sx	2234' - CBL **

Tubing Record:

2-3/8"	4.7# J-55	6813'	216 Jt
	S.N. @	6782'	

Formation Tops:

Ojo Alamo:	1046'		
Kirtland Shale:	1165	Mesaverde	3855'
Fruitland:	1910	Point Lookout	4580'
Pictured Cliffs:	2290'	Gallup	5800'
		Dakota	6680'

Logging Record: Induction Log, Density-Nuetron Log, Temp (Gallup), CBL (4-1/2" csg).

Stimulation: Perfed lower DK w/4 spf @ 6814'-22', 6841'-50', 6868'-76' & fraced w/25,000# sand in water. Perfed upper DK w/4 spf @ 6738'-68' & fraced w/60,000# sand in water.

Workover History: 10/96: TOH w/tbg. Set RBP @ 6680' & pressure test csg to 1000# - OK. Ran CBL from 2400' to surface - TOC @ 2234'. ** Perfed 2 sq holes @ 430' & sq w/2.1 BBL cmt (wouldn't take fluid). Perf 2 sq holes @ 270' & sq w/85 sx cmt - circ out bradenhead valve. Drill out cmt, test csg to 1000# - OK, retrieve BP, CO DK perfs, land tbg @ 6813' w/SN @ 6782'.

Production History: DK cum = 172 MMCF. See attached DK production curve. Current DK production is 50 MCF/D.

Pipeline: EPNG

FEUILLE A #5 MV-DK

UNIT J SECTION 4 T29N R10W
SAN JUAN COUNTY, NEW MEXICO

