submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. **Type of Well**
GAS

5. **Lease Number**
NM-03561

6. **If Indian, All. or Tribe Name**

7. **Unit Agreement Name**

2. **Name of Operator**
BURLINGTON RESOURCES OIL & GAS COMPANY

3. **Address & Phone No. of Operator**
PO Box 4289, Farmington, NM 87499 (505) 326-9700

8. **Well Name & Number**
Grenier B #4

9. **API Well No.**
30-045-08772

4. **Location of Well, Footage, Sec., T, R, M**
1850'FNL, 1580'FEL, Sec.4, T-29-N, R-10-W, NMPM
G

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	
_X_ Notice of Intent	___ Abandonment	___ Change of Plans
	___ Recompletion	___ New Construction
___ Subsequent Report	___ Plugging Back	___ Non-Routine Fracturing
	___ Casing Repair	___ Water Shut off
___ Final Abandonment	___ Altering Casing	___ Conversion to Injection
	_X_ Other - Stimulate Dakota and commingle	

13. **Describe Proposed or Completed Operations**

It is intended to stimulate the existing Dakota formation of the subject well and commingle with the existing Mesaverde formation according to the attached procedure and wellbore diagram. A down-hole commingle order will be obtained from the New Mexico Oil Conservation Division.

RECEIVED
NOV 2 3 1996
OIL CON. DIV.
DIST. 3

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

Signed [signature] (PMP2) Title Regulatory Administrator Date 11/13/96

(This space for Federal or State Office use)
APPROVED BY _____ Title _____ Date **APPROVED**
CONDITION OF APPROVAL, if any:

NOV 15 1996
Chip Hanadel
for DISTRICT MANAGER

NMOCD

GRENIER B #4 MV/DK
Workover Procedure
G 4 29 10
San Juan County, N.M.
Lat-Long: 36.756317 - 107.885773

1. Comply to all NMOCD, BLM, & MOI rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP w/flow tee and stripping head. Test operation of rams. NU blooie line & 2-7/8" relief line.

2. TOH w/ 218 Jts 2-3/8" tbg & Mod. "R" pkr. TIH w/4-1/2" scraper on 2-3/8" tbg to 6950'. If perfs 6918'-40' are covered, C.O. w/air/mist to 6950'. TOH.

3. 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. (Run 4 jts 2-3/8" N-80 on top of pkr). W/pkr @ 6940', spot 100 gal 15% HCL acid over lower DK perfs (6918'-40'). PU & set pkr @ 6880'. Monitor backside during breakdown & frac.

4. Spot & fill 2-400 bbl. frac tanks w/1% KCL water. If necessary, filter all water to 25 microns. One tank is for gel & one tank is for breakdown water. Usable gel water required for frac is 133 bbls.

5. Breakdown w/1000 gal 15% HCL acid. Max pressure is 6000 psi. Prepare to frac.
   * 2 gal I-22 (Corrosion Inhibitor)
   * 5 gal Ferrotrol -300I (Iron Control)
   * 1 gal Inflo 150 (Surface Tension Reducer)

6. Fracture treat Lower DK down frac string w/17,000 gals. of 30# X-linked gel & 21,000# 20/40 ottawa sand. Pump at 20 BPM. Monitor bottomhole & surface treating pressures, rate, & sand concentration with computer van. Sand to be tagged w/ 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi & estimated treating pressure is 5701 psi. Treat per the folowing schedule:

Stage	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	5,000	---
1.0 ppg	5,000	5,000
2.0 ppg	5,000	10,000
3.0 ppg	2,000	6,000
Flush	(1,673)	0
Totals	17,000	21,000#

Shut well in after frac for six hours in an attempt to allow the gel to break. Treat frac fluid w/the following additives per 1000 gallons:
   * 30# GW-27 (Guar Gel mix in full tank - 16,000 gal)
   * 1.0 gal. XLW-32 (Crosslinker)
   * 1.0# GBW-12 (Enzyme Breaker mix on fly)
   * 1.0# Ultra Perm CRB (Gel Breaker)
   * 1.0 gal Inflo 150 (Surface Tension Reducer)
   * 0.38# FracCide 20 (Bacteriacide mix on full tank)
   * 2 gal BF-7L (Buffering Agent)

7. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. **Take pitot gauges when possible.**

8. Release pkr & TOH w/frac string. MI wireline truck. Set 4-1/2" ret BP **(w/modified bottom to accommodate Baker DMR electronic pressure recorders)** @ 6880' & top w/1 sx sand.

9. Fill 2-400 bbl. frac tanks w/1% KCL water. If necessary, filter all water to 25 microns. One tank is for gel & one tank is for breakdown water. Usable gel water required for frac is 211 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 & set @ 6870'. (Run 4 jts 2-3/8" N-80 on top of pkr). Pressure test ret BP to 6000#. W/ pkr @ 6856', spot 100 gal 15% HCL acid over middle DK perfs (6836'-56'). PU pkr, & set @ 6820'. Monitor backside of pkr during breakdown & frac job.

11. Breakdown w/1000 gal 15% HCL acid. Max pressure is 6000 psi. Prepare to frac.
    - * 2 gal I-22 (Corrosion Inhibitor)
    - * 5 gal Ferrotrol -300I (Iron Control)
    - * 1 gal Inflo 150 (Surface Tension Reducer)

12. Fracture treat middle DK down frac string w/28,000 gals. of 30# X-linked gel & 40,000# 20/40 ottawa sand. Pump at 20 BPM. Monitor bottomhole & surface treating pressures, rate, sand concentration with computer van. Sand to be tagged w/ 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi & estimated treating pressure is 5642 psi. Treat per the folowing schedule:

Stage	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	8,000	—
1.0 ppg	5,000	5,000
2.0 ppg	10,000	20,000
3.0 ppg	5,000	15,000
Flush	(1,658)	0
Totals	28,000	40,000#

Shut well in after frac for six hours in an attempt to allow the gel to break. Treat frac fluid w/the following additives per 1000 gallons:
- * 30# GW-27 (Guar Gel mix in full tank - 16,000 gal)
- * 1.0 gal. XLW-32 (Crosslinker)
- * 1.0# GBW-12 (Enzyme Breaker mix on fly)
- * 1.0# Ultra Perm CRB (Gel Breaker)
- * 1.0 gal Inflo 150 (Surface Tension Reducer)
- * 0.38# FracCide 20 (Bacteriacide mix on full tank)
- * 2 gal BF-7L (Buffering Agent)

13. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. **Take pitot gauges when possible.**

14. Release pkr & TOH w/frac string & lay down. TIH w/retreiving head on 2-3/8" tbg & clean out to ret BP @ 6880' w/air/mist. Monitor gas & water returns & **take pitot gauges when possible.**

15. When wellbore is sufficiently clean (less than 1 BWPH), retreive BP @ 6880' (w/pressure recorders) & TOH.

16. TIH w/notched collar on 2-3/8" tbg & C.O. w/air/mist to 6960' & **take pitot gauges when possible.**. When wellbore is sufficiently clean (less than 1 BWPH), TOH & run after frac gamma-ray log & perf eff log from 6960'-6500'.

17. TIH w/2-3/8" tbg w/standard seating nipple one joint off bottom & again cleanout to 6960'. When wellbore is sufficiently clean, land tbg @ 6800' KB. **Take final water & gas & rates.**

18. ND BOP & NU wellhead & tree. Rig down & release rig. Complete well as a commingled Mesaverde - Dakota.

11/4/96

Recommended: _____ Production Engineer

Approve: _____ 11/12/96 Drilling Superintendent

VENDORS:

Wireline:	Basin	327-5244
Fracturing:	BJ	327-6222
RA Tag:	Pro-Technics	326-7133
Tools & Pressure Guage:	Baker	325-0216

PMP

Pertinent Data Sheet - Grenier B #4 MV/DK

Location: 1850' FNL & 1580' FEL, Unit G, Section 4, T29N, R10W, San Juan County, New Mexico

Field: Blanco Mesaverde
Basin Dakota

Elevation: 5931' GR
9' KB

TD: 6985'
PBTD: 6960'
Lease: Fed:NM-03561

Completed: 4/26/62

Spud Date: 4/9/62

DP #: DK: 25663
MV: 25669

100% SRC Trust

GWI: MV&DK=25%
NRI: MV&DK=20.75%
Prop#: 0020376B

Initial Potential:
DK: AOF=3067 MCF/D, Q=2709 MCF/D, SICP=2078 PSI
MV: AOF=2192 MCF/D, Q=1968 MCF/D, SICP=1010 PSI

Casing Record:

Hole Size	Csg Size	Wt. & Grade	Depth Set	Cement	Cement (Top)
12-1/4"	8-5/8"	24.0#	319'	225 sx	Circ Cmt
7-7/8'	4-1/2"	9.5# & 11.6#	6985'	250 sx	1300' - CBL
		DV Tool @	4888'	575 sx	5540' - Survey
		Baker Model "R" Pkr @	5120'		

Tubing Record:

Tbg. Size	Wt. & Grade	Depth Set	
2-3/8"	4.70# J-55 EUE	6924'	218 Jts

Formation Tops:

Ojo Alamo	1124'		
Kirtland	1305'		
Fruitland	2107'	Gallup	5870'
Pictured Cliffs:	2370'	Greenhorn:	6600'
Cliff House:	3931'	Graneros:	6658'
Point Lookout:	4660'	Dakota:	6780'

Logging Record: Induction, Neutron-Density, CBL, CNL

Stimulation:. **DK**: Sand-water fracd 6782'-6802', 6836'-56', 6918'-40' w/ 69,000# sand in water w/60 perf balls.

Workover History: **4/17/73** Perf'd **PL** @ 4650'-4720' Frac'd w/45,000# sand in water. Set Model "D" Baker Production Packer @ 6770' w/tbg @ 5770'. Completed dual MV/DK.
3/29/96: Milled out pkr. Pumped 150 gal 15% HCL acid & swabbed **lower DK** - TSTM. Pumped 150 gal 15% HCL acid & swabbed **middle DK** - TSTM. Pumped 150 gal 15% HCL acid & swabbed **upper DK** - 204 MCF/D. Perfed **lower Menefee** @ 4410'-16', 4442', 4448.-4454', 4467'-4474', 4583'-4592' & fraced w/60,000# sand in slick water. Perfed **upper Menefee** @ 4093'-4100', 4109'-14', 4227', 4270'-75', 4332', 4352'-4360', 4363'-4370' & fraced w/70,000# sand in slick water. Completed dual MV/DK w/final gauges: MV=539MCF/D & DK=54MCF/D.

Production History: MV 1st del 6/28/73. DK 1st del 7/31/62. Cum: MV=519MMCF & DK=1056MMCF. Current rates: MV=100 MCF/D & DK=0 MCF/D.

Pipeline: Williams Field Service

GRENIER B #4 MV/DK

UNIT G SECTION 4 T29N R10W

SAN JUAN COUNTY, NEW MEXICO