### UNITED STATES

## DEPARTMENT OF THE INTERIOR

	U OF LAND MANAGEMENT	
Sundry No	otices and Reports on Wells 26	
1. Type of Well GAS	OTO FACILITIES, NM	5. Lease Number SF-078197 6. If Indian, All. or Tribe Name
2. Name of Operator		7. Unit Agreement Name
BURLINGTON	L & GAS COMPANY	
3. Address & Phone No. of Open	rator	8. Well Name & Number
PO Box 4289, Farmington, N	NM 87499 (505) 326-9700	Nye Federal Com #1 9. API Well No.
4. Location of Well, Footage, 1450'FSL, 990'FWL, Sec.8, I	Sec., T, R, M	30-045-11994 10. Field and Pool
	1-29-N, R-10-W, NMPM	Blanco MV/Basin DK 11. County and State San Juan Co, NM
Type of Submission _X_ Notice of Intent Subsequent Report Final Abandonment	_X_ Recompletion New Co	e of Plans Instruction Outine Fracturing Shut off Ision to Injection
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		EIVED - 5 1297
		044. <b>DIV.</b> 1. 1. 0
signed Jugger Skalheeld	e foregoing is true and correct.  (PMPOpps) Title Regulatory Adm.	inistrator_Date 11/20/97
This space for Federal or State  APPROVED BY  CONDITION OF APPROVAL if any		ate <u>DEC - 3 1997</u>



District I PO 80x 1980, Hobbs, NM 88241-1980

## State of New Mexico Energy, Munerals & Natural Resources Generatment

Form C-! Revised February 21, 15 Instructions on ba

District II PO Drawer OD. Artesia. NM 68211-0719

OIL CONSERVATION DIVISION PO Box 2088

Submit to Appropriate District Off: State Lease - 4 Cop: Fee Lease - 3 Cop:

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

Santa Fe, NM 87504-2088 PM 2: 26

AMENDED REPOF

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-11994 72319/71599 Blanco Mesaverde/Basin Dakota  **Property Code** 18413 NYE FEDERAL COM 1 **Operator Note** 10 Surface Location  **Surface Location  **Levelon Basin Dakota**  **Surface Location  **Not re-surveyed:	'A'	PI Numbe	r		<sup>a</sup> Pool Coo	±0.1 1.1.10		TEAGE DEDI				
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## NYE FEDERAL COM #1 MV-DK Recompletion Procedure L 8 29 10

San Juan County, N.M. Lat-Long: 36-44.23" - 107-54.78"

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

- 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/1-1/4" tbg. Lay tbg down and hydrotest. Run 5-1/2" csg scraper on 2-3/8" rental tbg to 6000'. TOH. Run 5-1/2" drillable BP on 2-3/8" tbg and set @ 6000' and top w/1 sx sand.
- 3. W/2-3/8" tbg @ 5980', load hole w/1% KCL water. TOH.
- 4. Run CBL from 6000' to find TOC above 5-1/2" shoe, cmt above and below stg tool @ 4753' and TOC above and below sq holes @ 1410' and an advanced integrated data processed GSL neutron log 4700'-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. Set ret BP @ 4700' on wireline and top w/1 sx sand. Pressure test csg to 800 psi.

### **POINT LOOKOUT:**

5. TIH w/2-3/8" tbg open ended and spot 340 gal 15% HCL acid across Point Lookout perfs @ about ~4250'-4585'. 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 4250' to 4585'. 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 1465 bbls.
- 8. 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 @ 4680'. Pressure test rét BP @ 4700' to 3000 psi then reset pkr @ 4100'. (Run 2 jts 2-7/8" N-80 tbg above 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 4600' to knock off perf balls. Reset pkr @ 4200'.
- 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:

	Water	Sand Vol.
<u>Stage</u>	( <u>G</u> als.)	(lbs.)
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	_(1,534)	0
Totals	60,000	90.000#

If well is on vaccum 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	(Bacteriacide in full tank)

10. Shut well in for 4 hrs to let gel break. TOH w/3-1/2" tbg and pkr. TlH w/4-3/4" bit on 2-3/8" tbg and C.O. Point Lookout w/air/mist to insure a ret BP can be set @ 4230'.

#### **MENEFEE:**

- 11. Set ret BP @ 4230' on wireline and top w/1 sx sand. T!H w/5-1/2" pkr on 2-3/8" tbg to 4200' and pressure test ret BP @ 4230' to 3000 psi. Spot 500 gal 15% HCL acid across Menefee perfs at about ~3680'-~4200'. Use same acid additives as in step #5.
- 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 1460 bbls.
- 14. 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 @ 3500'. (Run 2 jts 2-7/8" N-80 tbg above 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 4220' to knock off perf balls. Reset pkr @ 3650' 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:

	Water	Sand Vol.
<u>Stage</u>	(Gals.)	(lbs.)
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>(1,333)</u>	0
Totals	60,000	90,000#

If well is on vaccum 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

\* 1.0 gal. Aqua Flow

\* 1.0# gvw-3

\* 1.0# B-5

\* 0.38# - Fracide 20

(Guar Gel mix in full tank - 16,000 gal) (Non-ionic Surfactant mix in full tank)

(Enzyme Breaker mix on fly)

(Breaker mix on fly)

(Bacteriacide 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. (w/air/mist) to ret BP @ 4230' w/air/mist.

  Monitor gas and water returns and <u>Take pitot gauges when possible.</u> When well is sufficiently clean, retrieve BP @ 4230'. TOH.
- 19. TIH w/retrieving tool on 2-3/8" tbg and C.O. (w/air/mist) to ret BP @4700'. <u>Take pitot</u> gauges when possible. When well is sufficiently clean, <u>run MV commingle production</u> test through separator using a back pressure of 150 psi. Retrieve BP @ 4700' and TOH.
- 20. TIH w/4-3/4" bit on 2-3/8" tbg and drill and C.O. (w/air/mist) drillable BP @ 6000' w/air/mist. Continue C.O. to PBTD 6670'. Take pitot gauges when possible.
- 21. When wellbore is sufficiently clean, <u>run DK commingle production test through separator using a back pressure of 150 psi.</u> TOH and run after frac gamma-ray log and perf eff log from 4700'-3500'.
- 22. TIH and rabbit 1-1/4" 2.33# IJ tbg w/standard seating nipple one joint off bottom and again cleanout to 6670'. When wellbore is sufficiently clean, land tbg @ 6650' KB. <u>Take final</u> water and gas samples and rates.
- 23. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended:

Production Engineer

Approved:

Drilling Superintenden

Approved:

Team Leader

**VENDORS**:

Wireline:

Blue Jet

325-5584

Fracturing:

Howco

325-3575

RA Tag:

**Pro-Technics** 

326-7133

**PMP** 

### Pertinent Data Sheet - NYE FEDERAL COM #1 MV-DK

L 8 29 10

Location: 1450' FSL & 990' FWL, Unit L Section 8 T29N, R10W, San Juan County, New Mexico

Field: Blanco Mesaverde

Elevation:

5681' GL 11' KB

<u>TD:</u> 6718' PBTD: 6670'

Basin Dakota
Completion Date: 1/8/61

- TOTO

**Spud Date: 12/12/60** 

Lease#: Fed. SF-078197

**DK DP #:** 50396A **MV DP#:** 34323A-3

**GWI:** 100% NRI: 84.06% Prop#: 012568102

Initial Potential:

DK: AOF=4438 MCF/D, Q=3756 MCF/D, SICP=1966 PSI

#### **Casing Record:**

Hole Size e12-1/4" e7-7/8"	<u>Csg Size</u> 8-5/8" 5-1/2"	Wt. & Grade 24# J-55 15.5 #J-55 Stg Tool @	Depth Set 349' 6718' 4753'	Cement 225 sx 175 sx 613 cf	Cement (Top) N/A 5824'@75% Eff. 2100'@75% Eff.
		9	.,	0.00.	2100 @1070 Ell.

#### **Tubing Record:**

1-1/4" 2.33# IJ 6626' 204 Jts

#### Formation Tops:

Ojo Alamo:	780'		
Kirtland Shale:	899'	Mesaverde	3595'
Fruitland:	1720	Point Lookout	4315'
Pictured Cliffs:	2025'	Gallup	5564'
		Dakota	6435'

Logging Record: Induction Log, Acoustic Velocity Log

**Stimulation:** 1/8/61: Perfed DK w/4 spf @ 6648'-60', 6623'-32', 6588'-94', 6571'-74', 6492'-6522' & fraced w/80,000# sand in slick water.

Workover History: 4/10/67: Set ret BP @ 1475'. Perfed 6 sq holes @ 1410'. Set 5-1/2" pkr @ 1284' & pressure test annulus to 1500 psi - OK. Sq w/200 sx cmt. Did not circ. Drilled out & pressure tested to 1000 psi. Installed 1-1/4" tbg.

1/88: Pulled tbg. Bottom 11 jts plugged w/scale. Ran bit & scraper & acidized DK.

<u>Production History:</u> 1st delivered DK 4/27/67. DK cum = 1,811 MMCF & 15,584 BO. See attached DK production curve. Current DK production is 110 MCF/D.

Pipeline: EPNG

# NYE FEDERAL COM #1 MV-DK

UNIT L SECTION 8 T29N R10W SAN JUAN COUNTY, NEW MEXICO

