

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

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

990' FSL 1650' FWL, Sec. 22, T-29-N, R-9-W, NMPM

5. Lease Number
NM-03999

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Grambling #3

9. API Well No.
30-045-07957

10. Field and Pool
Blanco Mesaverde

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 |
|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment <input type="checkbox"/> Change of Plans |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Recompletion <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Plugging Back <input type="checkbox"/> Non-Routine Fracturing |
| | <input type="checkbox"/> Casing Repair <input type="checkbox"/> Water Shut off |
| | <input type="checkbox"/> Altering Casing <input type="checkbox"/> Conversion to Injection |
| | <input checked="" type="checkbox"/> Other - Pay Add |

13. Describe Proposed or Completed Operations

It is intended to add pay to the Mesaverde formation on the subject well according to the attached procedure and wellbore diagram.

RECEIVED
NOV 20 1993

OIL CON. DIV.
DIST. 3

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

Signed James J. Spence (JD) Title Regulatory Administrator Date 10/22/98
TLW

(This space for Federal or State Office use)

APPROVED BY AS/Duane W. Spencer Title _____ Date NOV 19 1998

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCD

Grambling #3
Menefee Pay Add Procedure
Unit N, Section 22, T29N, R09W
Lat: 36°- 42.37608'/Long: 107 °- 46.10136

The well is currently completed in the Cliffhouse and Point Lookout. It is intended to add the Menefee to this existing Mesaverde producer. The pay add will be sand fracture stimulated in a single stage using a total of 36,000 gals 30 lb linear gel and 58,500 lbs 20/40 sand.

1. Inspect location and test rig anchors. Comply with all NMOCD, BLM, Forestry & BR rules and regulations. Dig flowback pit or set flowback tank. Haul to location 7 jts 2-3/8" N-80 tubing, 2-3/8" X 2-7/8" N-80 crossover, 3900', 2-7/8" N-80 buttress frac string and 4-400 bbl frac tanks.
2. MIRU. Fill 400 bbl tanks with 2% KCL water. Run fluid tests on water. Filter water based upon stimulation company water analysis. Record and report SI pressures on tubing, casing and bradenhead. Lay blowdown line. Blow well down and kill with 2% KCL water as necessary. ND WH and NU BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line. Redress production wellhead as needed.
3. TOOH with 2-3/8" Mesaverde production string set at 4531'. Visually inspect tubing, note and report any scale in/on tubing. Replace bad joints as needed.
4. PU and RIH with a 3-7/8" bit, 4-1/2" (10.5 lb/ft) casing scraper on the 2-3/8" tubing string. Clean out to PBTD (~4608') with air/mist. TOOH.
5. RU wireline. RIH and set CIBP at 4380'. RD wireline.
6. Load hole with 16 bbls (~1000') 2% KCL water. MIRU logging company. Run GR-CBL-CCL from PBTD til out of water. Evaluate CBL. Good cement bond must exist from PBTD to 3790' to continue with procedure.
7. RIH with 4-1/2" packer on 2-3/8" tubing. Set packer just above CIBP and pressure test to 3600 psi. Release packer and PUH to 4360'. Spot 270 gals 15% HCL across the Menefee perforation interval of 4001 to 4356'. PUH to 3800' and set packer. Pressure test annulus to 500 psi. Bleed off pressure and release packer. TOOH.

All acid on this well to contain the following additives per 1000 gals.

| | | |
|-------|-----------|---------------------|
| 2 gal | HAI-81M | Corrosion inhibitor |
| 5 gal | FE-1A | Iron Control |
| 5 gal | FE-2A | Iron Control |
| 1 gal | SSO-21 | Surfactant |
| 1 gal | ClaSta XP | Clay control |

8. RU wireline. Perforate Menefee as follows using select fire HSC guns loaded with Owens HSC-3125 302T 10 gram charges (Av. perf diameter - 0.29", Av. pen. -16.64" in concrete). ***Be sure to perforate from top down.***

4001', 4012', 4015', 4034', 4040', 4041', 4058', 4080', 4086', 4088', 4129', 4132', 4151', 4153', 4170', 4172', 4193', 4198', 4202', 4235', 4238', 4244', 4246', 4354', 4356' (25 holes total)

RDMO wireline company.

9. TIH with 4-1/2" bottom Baker C-cup straddle packer, 4 jts 2-3/8" N-80 tubing, 4-1/2" top straddle packer, 3 joints 2-3/8" N-80 tubing, 2-3/8" X 2-7/8" N-80 crossover, and remaining 2-7/8", N-80 buttress frac string. Set bottom packer at ~3880' and top packer ~3760' (Cliffhouse perfs 3814-3854').
10. RU stimulation company. Pressure test surface lines to 6500 psi. Apply 500 psi to backside. Monitor backside for communication. Establish an injection rate into perfs with 2% KCL water. Once pressure has broken back and stabilized, continue to breakdown Menefee perforations with 1000 gals 15% HCL at the maximum rate pressures will allow. Use the following additives.

All acid on this well to contain the following additives per 1000 gals.

| | | |
|-------|-----------|---------------------|
| 2 gal | HAI-81M | Corrosion inhibitor |
| 5 gal | FE-1A | Iron Control |
| 5 gal | FE-2A | Iron Control |
| 1 gal | SSO-21 | Surfactant |
| 1 gal | ClaSta XP | Clay control |

11. **Maximum surface treating pressure is 5500 psi. Monitor backside during stimulation.** Fracture stimulate Menefee with 58,500 lbs 20/40 Arizona sand in 36,000 gals 30 lb linear gel at 40 BPM. **If pressures allow, increase injection rate accordingly.** Average surface treating pressure will be 4460 psi. Total estimated tubing and perforation friction will be 4598 psi. Treat per the following schedule:

| Stage | Water (gals) | Sand Volume (lbs) |
|--------------------|---------------|-------------------|
| Pad | 5,000 | |
| 1.0 ppg | 6,500 | 6,500 |
| 2.0 ppg | 16,250 | 32,500 |
| 3.0 ppg | 6,500 | 19,500 |
| Flush (slickwater) | 1,007 | |
| Totals | 35,257 | 58,500 |

Slow rate during flush. If well is on vacuum near end of frac job, cut flush as necessary to avoid overflushing.

Frac with the following additives per 1000 gals frac fluid. **Gel will be mixed on the fly.**

| | | | |
|---|---------|-------|-------------------|
| * | 7.5 gal | LGC-8 | Gel |
| * | 0.18 lb | BE-6 | Biocide |
| * | 0.4 lb | SP | Oxidizing Breaker |
| * | 0.2 lb | GBW-3 | Enzyme Breaker |

RDMO stimulation company.

12. Open well through choke manifold and monitor flow. Flow at 20 BPH or less, if sand is observed. When pressures allow, release packers and TOOH. LD 2-7/8" buttress frac string, 2-7/8" X 2-3/8" N-80 crossover, 2-3/8" N-80 tubing, top 4-1/2" straddle packer, 2-3/8" N-80 tubing and bottom 4-1/2" straddle packer.
13. RIH with 3-7/8" bit on 2-3/8" tubing and clean out to CIBP at 4380'. Monitor gas and water returns when applicable. **Take Cliffhouse/Menefee pitot gauge before drilling up CIBP.** Drill up CIBP with a minimum of 12 BPH mist. CO to PBTB with air. Blow well at PBTB to check water rates. If needed, continue to blow well for clean up. TOOH.

Grambling #3
1999 Discretionary Menefee Pay Add

14. TIH with an expendable check, one 2-3/8" joint, standard SN and remaining 2-3/8" tubing. Broach tubing while running in hole. CO with air/mist to PBTD again, if necessary. **Obtain final Cliffhouse/Menefee/Point Lookout pitot gauge.** Land tubing at 4574'. ND BOP. NU WH. Pump off expendable check. RDMO. Contact Production Operations for well tie-in.

Recommended: J. Dobson
Production Engineer

Approved: P. B. J. 10/15/98
Drilling Superintendent

Approved: M. Caldwell 10/17/98
Team Leader

Contact:

Jennifer Dobson 599-4026 (work) 564-3244 (home) 324-2461 (pager)

PERTINENT DATA SHEET
9/16/98

| | | | | | | | |
|--|-------------------|--|--------------|--------------|--|------------------|--------------------------|
| WELLNAME: Grambling #3 | | | | | DP NUMBER: 47922A - MV PROP. NUMBER: 012565600 - MV | | |
| WELL TYPE: Blanco Mesaverde | | | | | ELEVATION: DF 5658' GL 5649' | | |
| LOCATION: 990' FSL, 1650' FWL Unit N, Sec. 22, T29N, R09W San Juan County, NM | | | | | INITIAL POTENTIAL: MV 700 MCFD INITIAL SITP: 1,100 psi | | |
| OWNERSHIP: GWI: 100.0000% NRI: 84.0000% SJBT: 0.0000% | | | | | DRILLING: SPUD DATE: 3/7/51 COMPLETED: 8/20/51 TOTAL DEPTH: 4641' PBD: 4608' | | |
| CASING RECORD: | | | | | | | |
| HOLE SIZE | SIZE | WEIGHT | GRADE | DEPTH | EQUIP. | CEMENT | TOC |
| 12-1/4" | 9-5/8" | 36# | J-55 | 298' | CASING | 120 sx | Surface (circ.) |
| 8-3/4" | 7" | 20/23# | J-55/N-80 | 3725' | FC DV @ 2226' | 200 sx 210 sx | 3530' (TS) 1270' (TS) |
| 6-1/4" | 4-1/2" | 10.5# | J-55 | 4641' | CASING | 120 sx | 2900' (TS) |
| TUBING RECORD: | | | | | | | |
| | 2-3/8" | 4.7# | J-55 | 4531' | | | |
| Pin collar on bottom. | | | | | | | |
| FORMATION TOPS: | | | | | | | |
| | Ojo Alamo | | 1022' | | Cliffhouse | 3784' | |
| | Kirtland | | 1117' | | Menefee | 3814' | |
| | Fruitland | | 1807' | | Point Lookout | 4390' | |
| | Pictured Cliffs | | 2109' | | | | |
| | Lewis | | 2197' | | | | |
| LOGGING: Schlumberger (3/51) GR-EL-IDL; Schlumberger (9/67) GR-IDL-FDC | | | | | | | |
| PERFORATIONS | | | | | | | |
| | Point Lookout | 4393-4401, 4424-4432', 4452-4456', 4512-4520', 4562-4574' (16 SPZ) | | | | | |
| | Cliffhouse | 3814-3822', 3846-3854' (24 SPZ) | | | | | |
| STIMULATION: | | | | | | | |
| | Point Lookout | Frac'd w/ 48,000 lbs 40/60 sand in 40,000 gals water at 65 BPM and 1900 psi. Dropped 4 sets of 16 balls. | | | | | |
| | Cliffhouse | Frac'd w/ 25,000 lbs 40/60 sand in 25,500 gals water at 50 BPM and 2700 psi. Dropped 1 set of 25 balls. | | | | | |
| WORKOVER HISTORY: | | | | | | | |
| | 8/51 | Completed Mesaverde openhole from 3778-4310'. Shot w/ 1420 qts SNG. | | | | | |
| | 8/53 | CO openhole to a new TD of 4440'. Shot openhole from 4220-4390' w/ 770 qts SNG. | | | | | |
| | 8/67 | Squeezed openhole with 250 sx cmt and sidetracked openhole to a new TD of 4641'. | | | | | |
| PRODUCTION HISTORY: | | | | | | | |
| | Cumulative | MV | | | RESERVE INFORMATION: | DK | |
| | | 4,081 | MMCF | | Gross EUR | 5,121 | MMCF |
| | Current | 100 | MCFD | | Gross Remaining Reserves | 1,040 | MMCF |
| PIPELINE: El Paso Field Service | | | | | | | |

Grambling #3

Unit N, Section 22, T29N, R9W
San Juan County, NM
Lat: 36° - 42.37608'/Long: 107° - 46.10136'

Current Schematic

Proposed Schematic

