

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 990' FWL, Sec. 22, T-28-N, R-8-W, NMPM

5. Lease Number

NM-013861

6. If Indian, All. or

Tribe Name

7. Unit Agreement Name

8. Well Name & Number

Grambling A #2

9. API Well No.

30-045-07243

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

☒ 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 - 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 - 9 1998

OIL CON. DIV.
DIST. 3

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

Signed [Signature] (JD) Title Regulatory Administrator Date 10/22/98

TLW

(This space for Federal or State Office use)

APPROVED BY /s/ Duane W. Spencer

Title

Date

NOV - 4 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.

NMOC

Grambling A #2

Cliffhouse/Menefee Pay Add Procedure

Unit M, Section 22, T28N, R8W

Lat: 36° – 38.53272' / Long: 107° – 40.39854'

Grambling A #2 is currently completed in the Point Lookout. It is intended to add Cliffhouse and Menefee pay to the existing Mesaverde producer. The pay add will be sand fracture stimulated in a single stage using a total of 60,000 gals 30 lb linear gel and 90,000 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 5 jts 2-3/8" workstring (for CO to PBTD), 3 jts 2-3/8" N-80 tubing, 2-3/8" X 2-7/8" N-80 crossover, 4500', 2-7/8" N-80 buttress frac string and 5, 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 solids 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 \pm 4590'. 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 (~4708') with air/mist. TOOH.
5. RU wireline. RIH and set CIBP at 4470'. RD wireline.
6. PU and RIH with 4-1/2" packer on 2-3/8" tubing. Set just above CIBP. Pressure test CIBP to 3600 psi. Bleed off pressure and release packer. Load hole with 2% KCL water. PUH to 4450'.
7. Spot 300 gals of 15% HCL across Cliffhouse and Menefee perf interval from 4000' to 4450'. 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. Run GR-CBL-CCL from PBTD to 2274' (4-1/2" DV tool). If bond is questionable, pressure casing to 1000 psi and run the GR-CBL-CCL under pressure. Run GR-CNL log from PBTD to 3900'. Evaluate CBL. Good cement coverage must exist from PBTD to 3900' to continue with procedure.
9. Perforation depths will be picked from the GR-CNL log. Contact Jennifer L. Dobson at 599-4026 (office), 564-3244 (home) or 324-2461 (pager) for perforation depths.

10. RU wireline. Perforate Cliffhouse and 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). A total of 25 perforations will be shot. RDMO wireline company.
11. TIH with 4-1/2" packer, 3 jts 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 packer at 3800'.
12. RU stimulation company. Hold tailgate safety meeting. Pressure test surface lines to 6500 psi. Hold 500 psi on annulus. Monitor pressure on annulus. Breakdown Cliffhouse and Menefee perforations with 1000 gals 15% HCL. Drop 50 RCN 7/8" 1.3 specific gravity perf balls evenly spaced throughout job. Attempt to balloff to 3600 psi. Use same additives as in Step #7. Bleed off pressure and release packer. Lower packer to PBTD to knock off perf balls. Reset packer at 3900'.
13. **Maximum surface treating pressure is 5500 psi.** Hold 500 psi on annulus, behind packer, and monitor during the job. Fracture stimulate the Cliffhouse and Menefee with 90,000 lbs 20/40 Arizona sand in 55,000 gals 30 lb linear gel at **40 BPM**. **If surface pressures allow, increase injection rate accordingly.** Average surface treating pressure will be 4500 psi. Estimated tubing and perforation friction will be 4592 psi. Treat per the following schedule:

Stage	Water (gals)	Sand Volume (lbs)
Pad	10,000	
1.0 ppg	10,000	10,000
2.0 ppg	25,000	50,000
3.0 ppg	10,000	30,000
Flush	941	
Totals	55,941	90,000

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.

14. Open well through choke manifold and monitor flow. Flow at 20 BPH or less, if sand is observed. When pressures allow, release packer and TOOH. LD 2-7/8" frac string, 2-7/8" X 2-3/8" crossover, 2-3/8" N-80 tubing, and 4-1/2" packer.
15. RIH with 3-7/8" bit on 2-3/8" tubing and clean out to CIBP at 4470'. Monitor gas and water returns when applicable. Obtain a representative Cliffhouse/Menefee pitot gauge. Drill up CIBP at 4470'. Continue to CO to PBTD. When water rates are less than 3 BPH, obtain a Cliffhouse/Menefee/Point Lookout pitot gauge. TOOH.
16. TIH with an expendable check, one joint 2-3/8" tubing, standard SN and remaining 2-3/8" tubing string. Broach tubing while running in hole. CO with air/mist to PBTD again, if necessary. Land tubing at 4650'. ND BOP. NU WH. Pump off expendable check. RDMO. Contact Production Operations for well tie-in.

Recommended: J. Dobson
Production Engineer

Approved: P. W. Best 10/15/98
Drilling Superintendent

Approved: T. Caldwell 10/7/98
Team Leader

Jennifer Dobson

599-4026 (work)

564-3244 (home)

324-2461 (pager)

WELLNAME: Grambling A #2					DP NUMBER: 47927A - MV PROP. NUMBER: 072251600 - MV		
WELL TYPE: Blanco Mesaverde					ELEVATION: DF 5923' GL 5917'		
LOCATION: 990' FSL, 990' FWL Unit M, Sec. 22, T28N, R08W San Juan County, NM					INITIAL POTENTIAL: MV 1,250 MCFD INITIAL SITP: 1,067 psi		
OWNERSHIP: GWI: 100.0000% NRI: 84.0000% SJB: 0.0000%					DRILLING: SPUD DATE: 2/11/51 COMPLETED: 4/17/51 TOTAL DEPTH: 4757' PBD: 4708'		
CASING RECORD:							
HOLE SIZE	SIZE	WEIGHT	GRADE	DEPTH	EQUIP.	CEMENT	TOC
12-1/4"	9-5/8"	26#	J-55	308'	CASING	100 sx	Surface (circ.)
8-3/4"	7"	20/23#	J-55/N-80	3945'	DV @ 3345'	125 sx 550 sx	3356' (60% eff.) 755' (60% eff.)
6-1/4"	4-1/2"	10.5#	J-55	4764'	DV @ 2274'	350 sx 425 sx	2349' (60% eff.) Surface (circ.)
TUBING RECORD:							
	2-3/8"	4.7#	J-55	4590'			
Perf nipple @ 4590'							
FORMATION TOPS:							
	Pictured Cliffs		2347'				
	Lewis		2425'				
	Cliffhouse		3996'				
	Menefee		4027'				
	Point Lookout		4590'				
LOGGING: Lane Wells (3/30/51) GR-N; Schlumberger (2/23/51) EL-SP-IDL; McCullough (11/5/61) Casing Inspection							
PERFORATIONS Point Lookout 4522-4532' (2 SPF), 4542-4547' (4 SPF), 4565-4575' (2 SPF), 4597-4602' (4 SPF), 4612-4622' (2 SPF), 4628-4633' (4 SPF), 4640-4650' (2 SPF)							
STIMULATION: Point Lookout Frac'd w/ 70,000 lbs 20/40 sand in 70,000 gals water at 48 BPM and 1700 psi.							
WORKOVER HISTORY: 2/51 Completed Mesaverde openhole from 3945-4757'. Shot from 4000-4757' w/ 2360 qts SNG.							
11/61 CO openhole to 4757'. Ran and cemented a 4-1/2" casing string. Completed per above notes.							
PRODUCTION HISTORY:							
		MV			RESERVE INFORMATION:		
Cumulative		1,070	MMCF		Gross EUR	DK 1,524	MMCF
Current		40	MCFD		Gross Remaining Reserves	454	MMCF
PIPELINE: El Paso Field Service							

Grambling A #2

Unit M, Section 22, T28N, R8W

San Juan County, NM

Lat: 36° - 38.53272'/Long: 107° - 40.39854'

Current Schematic

Proposed Schematic

