

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

Sundry Notices and Reports on Wells

57 NOV 25 11 21 AM

070 FARMINGTON, NM

1. Type of Well
GAS

Lease Number

NM-03862

If Indian, All. or
Tribe Name

2. Name of Operator

BURLINGTON
RESOURCES

OIL & GAS COMPANY

7. Unit Agreement Name

San Juan 28-4 Unit

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

8. Well Name & Number

San Juan 28-4 U #27

4. Location of Well, Footage, Sec., T, R, M

990' FSL, 1690' FWL, Sec. 19, T-28-N, R-4-W, NMPM

9. API Well No.

30-039-07359

10. Field and Pool

Blanco Mesaverde

11. County and State

Rio Arriba 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 of the subject well according to the attached procedure and wellbore diagram.

RECEIVED
JAN - 2 1998OIL CON. DIV.
DIST. 3

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

Signed *Duane W. Spencer* (JLDOpps) Title Regulatory Administrator Date 11/24/97

(This space for Federal or State Office use)

APPROVED BY */s/ Duane W. Spencer*

Title

Date

DEC 23 1997

CONDITION OF APPROVAL, if any:

NMCCO

San Juan 28-4 Unit #27
Cliffhouse/Menefee Pay Add Procedure
Unit N, Section 19, T28N, R4W
Lat: 36° - 38.462222' Long: 107° - 17.64588'

The well is currently completed in the Point Lookout with a production rate of 20 MCFD and remaining reserves of 106 MMCF. It is intended to add the Cliffhouse and Menefee to the existing Mesaverde producer. The pay add will be sand fracture stimulated in a single stage using a total of 90,500 gals 30 lb linear gel and 150,000 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 a new or inspected 6700', 2-3/8" production string, 3 jts 2-3/8" N-80 tubing, 2-3/8" X 2-7/8" N-80 crossover, 6300', 2-7/8" N-80 frac string with shaved collars and 7, 400 bbl frac tanks
2. MIRU. Fill one 400 bbl tank with 2% KCL water. 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 + 6616' and LD. Send string in to be inspected and salvaged, if possible. Visually inspect tubing, note and report any scale in/on tubing.
4. PU and RIH with a 3-7/8" bit, 4-1/2" (11.6 lb/ft) casing scraper on the 2-3/8" tubing string hauled to location. Clean out to PBTD (~6630') with air. TOOH.
5. RU wireline. RIH and set CIBP at 6350'. RD wireline.
6. Load hole with 2% KCL water. MIRU logging company. Run GR-CBL-CCL from PBTD to surface casing. Evaluate CBL. Top of good cement must be above 5900' to continue.
7. PU and RIH with 4-1/2" packer on 2-3/8" tubing. Set just above CIBP. Pressure test CIBP to 3800 psi. Fill backside and pressure test casing to 500 psi. Release packer and PUH to 6312'
8. Spot 190 gals of 15% HCL across Cliffhouse and Menefee perf interval from 6078' to 6312'. 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
9. 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). Be sure to perforate from top down.

**6078', 6098', 6104', 6114', 6118', 6122', 6136', 6138', 6162', 6164', 6168',
6196', 6214', 6216', 6218', 6220', 6260', 6262', 6286', 6288', 6292', 6300',**

6306', 6310', 6312' (25 holes total)

RDMO wireline company.

- 10. Fill 7 - 400 bbl frac tanks with 2% KCL water. If necessary, filter all water to 25 microns. Six tanks are for gel and one tank is for breakdown and flush.
- 11. TIH with 4-1/2" packer, tubing tester, 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 frac string with shaved collars. Set packer at 5870'. Close tubing tester and test frac string to 6000 psi.
- 12. RU stimulation company. Pressure test surface lines to 4800 psi. Breakdown and attempt to balloff Cliffhouse and Menefee perforations with 1600 gals 15% HCL and 200% excess RCN 7/8" 1.3 specific gravity perf balls to 3800 psi. Use same additives as in Step 8. Lower packer to 6320' to knock off perf balls. Reset packer at 5970'.
- 13. RU stimulation company. Hold a tailgate safety meeting. Pressure test surface treating lines to 6000 psi. **Maximum surface treating pressure is 5000 psi.** Hold 500 psi on annulus, behind packer, and monitor during the job. Fracture stimulate the Cliffhouse and Menefee with 150,000 lbs 20/40 Arizona sand in 90,500 gals 30 lb linear gel at **30 BPM**. Sand is to be tagged with 3 RA tracers. Average surface treating pressure will be 4600 psi. Treat per the following schedule:

Stage	Water (gals)	Sand Volume (lbs)
Pad	18,000	
1.0 ppg	15,000	15,000
2.0 ppg	37,500	75,000
3.0 ppg	20,000	60,000
Flush	1,500	
Totals	92,000	150,000

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
- * 1 gal SSO-21 Surfactant
- * 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. **Take pitot gauges when possible.** When pressures allow, release packer and TOOH. LD packer, 2-3/8" N-80 tubing, 2-3/8" X 2-7/8" crossover and 2-7/8" N-80 tubing.
- 15. RIH with 3-7/8" bit on 2-3/8" tubing and clean out to CIBP at 6350'. Monitor gas and water returns when applicable. When well is sufficiently clean, drill up CIBP at 6350'. Continue to CO to PBTD. TOOH.

- 17. RU wireline company. Run Perforation Efficiency log from 6320-6070'. RD wireline company.
- 18. Squeeze to cover Ojo Alamo **as necessary**.
- 19. 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 6616'. Pump off expendable check. ND BOP. NU WH. RDMO. Contact Production Operations for well tie-in.

Recommended: J. Dobson
Production Engineer

Approved: P.J.B. 11/17/97
Drilling Superintendent

Approved: M. Caldwell 11/10/97
Team Leader

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

San Juan 28-4 Unit #27
Pertinent Data Sheet
Lat: 36° - 38.46222' Long: 107° - 17.64588'

General Well Information:

Location: 990 FSL, 1690 FWL, Unit N, Section 19, T28N, R4W, Rio Arriba County, NM

Federal Lease #: SF 03862
Property #: 007972900

DP #: 50541A
GWI/NRI: 66.12/54.97

Current Field: Blanco Mesaverde
Spud: 9/16/61
GL Elevation: 7325'
TD: 6662'

Completed: 9/23/61
KB Elevation: 7335'
PBTD: 6630'

Casing Record:

Hole Size	Csg Size	Weight	Grade	Depth Set	Cmt Vol	Cmt Top
13-3/4"	9-5/8"	32.3 lb/ft	H-40	314'	200	Circ. to Sur.
8-3/4"	7"	20 lb/ft	J-55	4494'	180	3200' (TS)
6-1/4"	4-1/2"	9.5 lb/ft	J-55	4418-5605'	215	Circ. Cmt Out.
		11.6 lb/ft	J-55	5605-6662'		

Tubing Record:

Tubing Size	Weight	Grade	Depth Set	Number of Jts
2-3/8	4.7 lb/ft	J-55	6612'	210
Perf Jt with Bull Plug	4.7 lb/ft	J-55	6616'	1

Logging Record:

Welex Gamma Ray (9/17/61) and Induction Log (9/17/61)

Completion:

Point Lookout was perforated at 6442-50' (2 SPF), 6476-80' (4 SPF), 6486-90' (4 SPF), 6556-64' (2 SPF), 6568-78' (2 SPF), 6582-90' (2 SPF) and 6608-16' (2 SPF). It was then fracture stimulated with 62,350 gals water and 69,500 lbs sand at 42 BPM and 2600 psi. Dropped 64 balls for diversion.

Workover History:

None.

Production History:

Well is currently making 20 MCFD. Mesaverde EUR: 755 MMCF Mesaverde Remaining Reserves: 106 MMCF.

Pipeline:

El Paso Natural Gas Company

San Juan 28-4 Unit #27

Unit N, Section 19, T28N, R4W
 Lat: 36°-38.462222'/Long: 107°-17.64588'
 Rio Arriba County, NM

Current Schematic

Proposed Schematic

