

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

~~RECEIVED~~
BLM

Sundry Notices and Reports on Wells

57 OCT 28 PM 2:16

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

567' FSL, 660' FWL, Sec. 30, T-28-N, R-4-W, NMPM

5. Lease Number
NM-03862

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

San Juan 28-4 Unit

8. Well Name & Number
San Juan 28-4 U #20

9. API Well No.
30-039-07281

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 the Cliff House and Menefee formation to the subject well according to the attached procedure and wellbore diagram.

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

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

Signed *Duane W. Spencer* (JLDOpps) Title Regulatory Administrator Date 10/28/97

(This space for Federal or State Office use)

APPROVED BY *Duane W. Spencer*

Title _____

Date

DEC 23 1997

CONDITION OF APPROVAL, if any:

(F)

NMOCG

San Juan 28-4 Unit #20

Cliffhouse/Menefee Pay Add Procedure

Unit M, Section 30, T28N, R4W

Lat: 36° - 37.47162 min./ Long: 107° - 17.85186 min.

The well is currently completed in the Point Lookout with a production rate of 80 MCFD and cumulative production of 1.07 BCF. 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 an inspected 6100', 2-3/8" production string, 3 jts 2-7/8" N-80 tubing, 2-7/8" X 3-1/2" N-80 crossover, 5800', 3-1/2" N-80 frac string and 7, 400 bbl frac tanks
2. MIRU. Fill Tank #1 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 \pm 6035' 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 4-3/4" bit, 5-1/2" (15.5 lb/ft) casing scraper on the 2-3/8" inspected tubing string hauled to location. Clean out to PBTD (~6050') with air. TOOH.
5. RU wireline. RIH and set CIBP at 5865'. RD wireline.
6. Load hole with 2% KCL water. MIRU logging company. Run GR-CBL-CCL from PBTD to 500'. Evaluate CBL. Top of good cement must be above 5300' to continue.
7. PU and RIH with 5-1/2" packer on 2-3/8" tubing. Set just above CIBP. Pressure test CIBP to 3800 psi. Release packer and PUH to 5830'
8. Spot 400 gals of 15% HCL across Cliffhouse and Menefee perf interval from 5497' to 5830'. TOOH.

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

2 gal	HAI-81M	Corrosin 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.

**5496', 5498', 5508', 5514', 5516', 5522', 5524', 5532', 5534', 5536',
5558', 5560', 5562', 5564', 5566', 5602', 5604', 5617', 5628', 5634',
5646', 5648', 5704', 5706', 5726', 5730', 5740', 5764', 5775', 5788',**

5796', 5800', 5803', 5820', 5825' (35 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 5-1/2" packer, tubing tester, 3 jts 2-7/8" N-80 tubing, 2-7/8" X 3-1/2" N-80 crossover, and remaining 3-1/2", N-80 frac string. Set packer at 5300'. 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 5830' to knock off perf balls. Reset packer at 5400'.
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 **45 BPM**. Sand is to be tagged with 3 RA tracers. Average surface treating pressure will be 3700 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	1,935	
Totals	92,435	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, 2-7/8" N-80 tubing, 2-7/8" X 3-1/2" crossover and 3-1/2" N-80 tubing.
15. RIH with notched collar on 2-3/8" tubing and clean out to CIBP at 5865'. Monitor gas and water returns when applicable.

16. When wellbore is sufficiently clean, TOH and RU Pro-Technics. Run After-Frac log from PBTD-5400'. RD Pro-Technics.
17. RU wireline company. Run Perforation Efficiency log from 5830-5490'. RD wireline company.
18. Squeeze to cover Ojo Alamo as necessary.
19. TIH with 4-3/4" bit on 2-3/8" tubing and cleanout with air/mist to CIBP at 5865'. Monitor gas and water returns. **Take pitot gauges when possible.** When well is sufficiently clean, drill up CIBP at 5865'. Continue to CO to PBTD. TOOH.
20. 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 5950'. Pump off expendable check. ND BOP. NU WH. RDMO. Contact Production Operations for well tie-in.

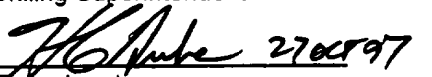
Recommended:


Production Engineer

Approved:

 10/27/97
Drilling Superintendent

Approved:

 27 Oct 97
Team Leader for J. Chowen

VENDORS:

Fracturing: Halliburton 324-3500

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

San Juan 28-4 Unit #20
Pertinent Data Sheet
Lat: 36° - 37.47162 min./ Long: 107° - 17.85186 min.

General Well Information:

Location: 567 FSL, 660 FWL, Unit M, Section 30, T28N, R4W, Rio Arriba County, NM

Federal Lease #: SF 079472
Property #: 007972900

DP #: 50270A
GWI/NRI: 66.12/54.97

Current Field: Blanco Mesaverde
Spud: 9/24/59
GL Elevation: 6788'
TD: 6096'

Completed: 10/21/59
KB Elevation: 6798'
PBD: 6050'

Casing Record:

Hole Size	Csg Size	Weight	Grade	Depth Set	Cmt Vol	Cmt Top
13-3/8"	10-3/4"	32.75 lb/ft	Armco SW	176'	150	Circ. to Sur.
9-7/8"	7-5/8"	26.4 lb/ft	J-55	3927'	126	3640 (TS)
6-3/4"	5-1/2"	15.5 lb/ft	J-55	3868-6091'	340	3868 (TS)

Tubing Record:

Tubing Size	Weight	Grade	Depth Set	Number of Jts
2-3/8	NA	NA	6035'	193

Other Downhole Equipment:

Classification	Depth Set
Seating Nipple	6002'

Formation Tops:

Ojo Alamo: 3069'	Pictured Cliffs: 3712'	Menefee: 5538'
Kirtland: 3248'	Lewis: 3807'	Point Lookout: 5850'
Fruitland: 3462'	Cliffhouse: 5505'	

Logging Record: Schlumberger Electrical (10/9/59), Gamma Ray (10/15/59) and Induction Log (10-15-59)

Completion: Point Lookout was perforated at 5876-96', 5910-20', 5930-52', 5968-88', 6016-32' at 2 SPF. It was then fracture stimulated with 65,000 gals water and 70,000 lbs sand at 80 BPM and 1300-3000 psi. Dropped 120 balls for diversion.

Workover History: None.

Production History: Well was is currently making 80 MCFD. Mesaverde EUR: 1,958 MMCF
Mesaverde Cum: 1,074 MMCF.

Pipeline: Williams Field Service

San Juan 28-4 Unit #20

Unit M, Section 30, T28N, R4W
Rio Arriba County, NM

Current Schematic

Proposed Schematic

