

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

890' FNL, 1650' FEL, Sec. 11, T-27-N, R-6-W, NMPM

5. Lease Number
SF-079363

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
San Juan 28-6 U #66

9. API Well No.
30-039-07145

10. Field and Pool
So. Blanco Pict. Cliffs/
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

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other - Pay add

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

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. The well will then be down-hole commingled. A down-hole commingle order will be obtained.

RECEIVED
NOV - 5 1997

OIL CON. DIV.
DIST. 3

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

Signed [Signature] (JLDOpps) Title Regulatory Administrator Date 10/28/97

(This space for Federal or State Office use)

APPROVED BY [Signature] Title [Signature]

Date 10/28/97

CONDITION OF APPROVAL, if any:

NMOC

San Juan 28-6 Unit #66

Lower Cliffhouse/Menefee Pay Add Procedure

Unit B, Section 11, T27N, R6W

Lat: 36° - 35.60214 min./ Long: 107° - 25.94514 min.

The well is currently completed in the Upper Cliffhouse and Point Lookout with a production rate of 30 MCFD and cumulative production of 764 MMCF. It is intended to add additional Cliffhouse and Menefee 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 NMOC, BLM, Forestry & BR rules and regulations. Dig flowback pit or set flowback tank. Haul to location an inspected 5800', 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 5-400 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. TOO H with 1-1/4", 2.4 lb/ft EUE Pictured Cliffs production string set at 3520' and LD. Unset Baker 'EGJ' production packer using a straight pull at 3669' and TOO H with 2", 4.7 lb/ft EUE Mesaverde production string set at 5656'. LD 2" string. Send strings 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 (~5750') with air. TOO H.
5. RU wireline. RIH and set CIBP at 5580'. RD wireline.
6. Load hole with 40 bbls (~1700') 2% KCL water. MIRU logging company. Run GR-CBL-CCL from PBTD til out of water. Evaluate CBL. Decent cement bond must exist from PBTD to 5130' to continue with procedure.
7. RIH with 5-1/2" packer and 2-3/8" tubing. Set packer just above CIBP at 5580'. Pressure test CIBP to 3800 psi. Release packer and PUH to 5560'.
8. Spot 400 gals of 15% HCL across Lower Cliffhouse and Menefee perf interval from 5189' to 5560'. TOO H.

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 Lower 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.

5189', 5191', 5193', 5214', 5222', 5224', 5234', 5298', 5313', 5324',
5326', 5328', 5330', 5345', 5357', 5358', 5388', 5390', 5392', 5404',
5406', 5408', 5420', 5422', 5480', 5484', 5488', 5494', 5496', 5498',
5544', 5548', 5550', 5552', 5554' (35 holes total)

RDMO wireline company.

10. Fill 5 - 400 bbl frac tanks with 2% KCL water. Filter all water to 25 microns if brought from sources with known solids contamination. Filtration is not necessary for city water. Four 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 5150'. Close tubing tester and test frac string to 6000 psi.
12. RU stimulation company. Pressure test surface lines to 4800 psi. Monitor backside for communication. Breakdown and attempt to balloff Lower 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 5560' to knock off perf balls. Reset packer at 5150'.
13. RU stimulation company. Hold a tailgate safety meeting. Pressure test surface treating lines to 6000 psi. **Maximum surface treating pressure is 5000 psi.** Monitor backside during stimulation. Fracture stimulate the Lower Cliffhouse and Menefee with 90,000 lbs 20/40 Arizona sand in 61,900 gals 30 lb linear gel at **45 BPM**. Average surface treating pressure will be 3700 psi. Treat per the following schedule:

Stage	Water (gals)	Sand Volume (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 (slickwater)	1,897	
Totals	61,897	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.**

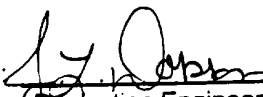
* 7.5 gal	LGC-8	Gel
* 1 gal	SSO-21	Surfactant
* 0.18 lb	BE-6	Biocide
* 0.4 lb	SP	Oxidizing Breaker
* 0.2 lb	GBW-3	Enzyme Breaker

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 4-3/4" bit on 2-3/8" tubing and clean out to CIBP at 5580'. Monitor gas and water returns when applicable. Drill out CIBP. Continue to clean out to PBTD. TOOH.
16. Squeeze to cover Ojo Alamo as necessary.
17. 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. Land tubing at 5732'. Pump off expendable check. Flow Pictured Cliffs/Mesaverde production through test separator using a backpressure of 200 psi. This is necessary for NMOCD commingling regulations. ND BOP. NU WH. RDMO. Contact Production Operations for well tie-in.

Recommended:


Production Engineer

Approved:


Drilling Superintendent

Approved:


Team Leader

Contact:

Jennifer Dobson

599-4026 (work)

564-3244 (home)

324-2461 (pager)

San Juan 28-6 Unit #66
Pertinent Data Sheet
Lat: 36° - 35.60214 min./ Long: 107° - 25.94514 min.

General Well Information:

Location: 890 FNL, 1650 FEL, Unit B, Section 11, T27N, R6W, Rio Arriba County, NM

Federal Lease #: SF 079363
Property #: 007973200

DP #: 53432B
GWI/NRI: 37.19/29.32

Current Field: Blanco Mesaverde
Spud: 10/22/57
GL Elevation: 6663'
TD: 5812'

Completed: 11/2/57
DF Elevation: 6673'
PBTD: 5750'

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	173'	150	Circ. to Sur.
9-7/8"	7-5/8"	26.4 lb/ft	J-55	3587'	250	3000' (TS)
6-3/4"	5-1/2"	15.5 lb/ft	J-55	3533-5808'	300	3533' (TS)

Tubing Record:

Tubing Size	Weight	Grade	Depth Set	Number of Jts
2"	4.7 lb/ft	J-55	5656'	180
1-1/4"	2.4 lb/ft	A	3520'	117

Other Downhole Equipment:

Classification	Depth Set
Garret Circulating Sleeve (Ran Upside Down)	3509'
Baker EGJ Production Packer	3669'
Perforated 2" Joint	5622' to 5625'

Formation Tops:

Ojo Alamo: 2782'
Kirtland: 2890'
Fruitland: 3181'

Pictured Cliffs: 3468'
Lewis: 3490'
Cliffhouse: 5078'

Manefee: 5197'
Point Lookout: 5595'

Logging Record:

Schlumberger Electrical (10/28/57), Gamma Ray (11/2/57), Induction Log (11-2-57) and Schlumberger MicroLog (10/28/57).

Completion:

Point Lookout was perforated at 5506-5612', 5632-5642', 5652-5660', 5688-5702', 5724-5732' at 2 SPF. Fracture stimulated it with 56,024 gals water and 60,000 lbs sand at 55 BPM and 1000-2700 psi. Dropped 84 balls for diversion.

Cliffhouse was perforated at 5076-5086', 5096-5108' at 2 SPF. Fracture stimulated it with 31,760 gals water and 40,000 lbs sand at 62 BPM and 1450 psi.

Pictured Cliff was perforated at 3424-3440', 3460-3490' at 2 SPF. Fracture stimulated it with 22,260 gals water and 40,000 lbs sand. Dropped 48 balls for diversion.

Workover History: None.

Production History:

Well was is currently making 30 MCFD from the Mesaverde. Current Mesaverde EUR: 1,264 MMCF Mesaverde Cum: 764 MMCF.

Pipeline: Williams Field Service

San Juan 28-6 Unit #66

Unit B, Section 11, T27N, R6W
Rio Arriba County, NM

Current Schematic

Proposed Schematic

