

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JAN 15 1998

Sundry Notices and Reports on Wells

ST 05031 PM 1:25

SF-080669

1. Type of Well
GAS

2. Name of Operator

**BURLINGTON
RESOURCES**

3. Address & Phone No. of Operator

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

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

1720' FNL, 1190' FEL, Sec. 17, T-27-N, R-4-W

5. Lease Number
SF-080669
6. If Indian, All. or
Tribe Name

7. Unit Agreement Name
San Juan 27-4 Unit

8. Well Name & Number
San Juan 27-4 Unit 73

9. API Well No.
30-039-2103200

10. Field and Pool
Tapacita PC/Blanco MV

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 - *Commingled*

13. Describe Proposed or Completed Operations

It is intended to add Menefee pay per attached procedure and well bore diagram to the subject well.

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OIL CON. DIV.
DIST. 3

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

Signed *Duane W. Spencer* Title Regulatory Admin. Date 12/23/97

(This space for Federal or State Office use)

APPROVED BY */s/ Duane W. Spencer* Title _____ Date JAN 13 1998

CONDITION OF APPROVAL, if any:

NMOCD

San Juan 27-4 Unit #73
Menefee Pay Add Procedure
Unit H, Section 17, T27N, R4W
Lat: 36° - 34.53642'/Long: 107° - 16.095'

The well is currently completed in the Pictured Cliffs, Cliffhouse and Point Lookout intervals with a total production rate of 170 MCFD and remaining reserves of 571 MMCF. It is intended to add the Menefee to the existing Pictured Cliffs/Mesaverde production. 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 an inspected 6300', 2-3/8" production string, 6 jts 2-3/8" N-80 tubing, 2-3/8" X 2-7/8" N-80 crossover, 5900', 2-7/8" N-80 buttress 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. TOOH with 1-1/4", 2.4 lb/ft EUE Pictured Cliffs production string set at 3874' and LD. Sting out of Model 'D' production packer at 3964' with 2-3/8" tubing. TOOH. LD 2-3/8" string. Send strings in to be inspected and salvaged, if possible. Visually inspect tubing, note and report any scale in/on tubing. TIH with packer mill and plucker. Mill over Model 'D' packer at 3964' and pluck packer. TOOH with packer.
4. PU and RIH with a 3-7/8" bit, 4-1/2" (10.5 lb/ft) casing scraper on the 2-3/8" inspected tubing string hauled to location. Clean out to PBTD (~6378') with air. TOOH.
5. RU wireline. RIH and set CIBP at 5960'. RD wireline.
6. Load hole with 25 bbls (~1550') 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 5610' to continue with procedure.
7. RIH with 4-1/2" packer and 2-3/8" tubing. Set packer just above CIBP at 5960'. Pressure test CIBP to 3600 psi. Release packer and PUH to 5934'.
8. Spot 190 gals of 15% HCL across Menefee perf interval from 5710' to 5934'. 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 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 **(23 holes total)**.

**5710', 5712', 5723', 5728', 5730', 5735', 5737', 5739', 5798', 5812', 5814', 5816',
5834', 5842', 5866', 5868', 5870', 5872', 5896', 5898', 5930', 5932', 5934'**

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 4-1/2" packer, tubing tester, 6 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 5625'. Close tubing tester and test frac string to 6500 psi.
12. RU stimulation company. Pressure test surface lines to 4600 psi. Monitor backside for communication. Breakdown and attempt to balloff Menefee perforations with 1500 gals 15% HCL and 200% excess RCN 7/8" 1.3 specific gravity perf balls to 3600 psi. Lower packer to 5940' to knock off perf balls. Reset packer at 5625'.

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

13. RU stimulation company. Hold a tailgate safety meeting. Pressure test surface treating lines to 6500 psi. **Maximum surface treating pressure is 5500 psi.** Monitor backside during stimulation. Fracture stimulate the Menefee with 90,000 lbs 20/40 Arizona sand in 60,000 gals 30 lb linear gel at **30 BPM**. Average surface treating pressure will be 4700 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)	1,400	
Totals	61,400	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.**

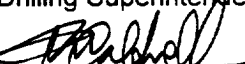
* 7.5 gal	LGC-8	Gel
* 1 gal	SSO-21	Surfactant
* 0.18 lb	BE-6	Biocide
* 0.4 lb	SP	Oxidizing Breaker
* 0.2 lb	GBW-3	Enzyme Breaker

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, 2-3/8" N-80 tubing, 2-3/8" X 2-7/8" crossover and 2-7/8" N-80 buttress frac string.
15. RIH with 3-7/8" bit on 2-3/8" tubing and clean out to CIBP at 5960'. Monitor gas and water returns when applicable. Drill out CIBP. Continue to clean out to PBTD. TOOH.
16. TIH with 4-1/2" packer and 2-3/8" tubing. Set packer just above top Cliffhouse perforation at 5484'. Run Mesaverde only 3 hour production test through separator using a back pressure of 200 psi. This is necessary for determining Menefee pay add contribution and correct commingling allocations. Release packer and TOOH.
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 6231'. ND BOP. NU WH. Pump off expendable check. RDMO. Contact Production Operations for well tie-in.

Recommended: 
Production Engineer

Approved:  12/3/97
Drilling Superintendent

Approved:  12/1/97
Team Leader

Contact:

Jennifer Dobson

599-4026 (work)

564-3244 (home)

324-2461 (pager)

San Juan 27-4 Unit #73
Pertinent Data Sheet
Lat: 36° - 34.53642°/Long: 107° - 16.095'

General Well Information:

Location: 1720 FNL, 1190 FEL, Unit H, Section 17, T27N, R4W, Rio Arriba County, NM

Federal Lease #: SF 080669 DP #: 53322A
Property #: 007972305 GWI/NRI: 84.66/69.97

Current Field: Blanco Mesaverde Dualled with Pictured Cliffs
Spud: 6/14/76 Completed: 9/24/76
GL Elevation: 6918' KB Elevation: 6929'
TD: 6396' PBTD: 6378'

Casing Record:

Hole Size	Csg Size	Weight	Grade	Depth Set	Cmt Vol	Cmt Top
13-3/4"	9-5/8"	40 lb/ft	KS	215'	190	Circ. to Sur.
8-3/4"	7"	23 lb/ft	KS & NQS	0-4123'	350	2200' (est.)
6-1/4"	4-1/2"	10.5 lb/ft	KS	3982-6396'	250	3982' (est.)

Tubing Record:

PC Side

Tubing Size	Weight	Grade	Depth Set	Number of Jts
1-1/4"	2.33 lb/ft	v-55	3837'	121
1-1/4" Baker F Nipple			3838'	1
1-1/4" Perf Pup Joint	2.33 lb/ft	V-55	3841'	1
1-1/4" Bull Plugged Mud Anchor	2.33 lb/ft	V-55	3874'	1

MV Side

Tubing Size	Weight	Grade	Depth Set	Number of Jts
2-3/8"	4.7 lb/ft	J-55	3960'	107
Baker Locator Seal Assembly w/ Triple Seals (Baker Model D Production Packer)			3964'	
2-3/8" w/ Beveled Couplings	4.7 lb/ft	J-55	6239'	72
2-3/8" Baker F Nipple			6240'	1
2-3/8" Perf Pup Joint	4.7 lb/ft	J-55	6243'	1
2-3/8" Bull Plugged Mud Anchor	4.7 lb/ft	J-55	6275'	1

Logging Record:

Dresser Atlas Compensated Densilog (6/25/76), Dresser Atlas Gamma Ray/Induction Log (6/25/76), Schlumberger Electrical/Induction Log/ Compensated Formation Density (6/22/76).

Completion:

Perforated the Cliffhouse and Point Lookout at 5484', 5496', 5504', 5535', 5544', 5572', 5599', 5609', 5980', 5989', 5998', 6020', 6030', 6046', 6056', 6080', 6090', 6104', 6168', 6189', 6204', 6231' (1 SPF) in 600 gals 7-1/2% HCL. Broke perforations down with 1400 gals 15% HCL. Fracture stimulated the entire interval with 87,000 lbs 20/40 and 86,982 gals water.

Perforated the Pictured Cliffs at 3800', 3822', 3830', 3838', 3863', 3869' and 3881' (1 SPF) in 250 gals 15% HCL. Broke perforations down with 300 gals 15% HCL. Fracture stimulated interval with 77,000 lbs 10/20 sand and 76,986 gals water.

Workover History: None

Production History:

Well is currently making 30 MCFD from the Pictured Cliffs and 140 MCFD from the Mesaverde. Current Mesaverde EUR: 1,513 MMCF Mesaverde Remaining Reserves: 503 MMCF.

Pipeline: Williams Field Service

San Juan 27-4 Unit #73

Unit H, Section 17, T27N, R4W
 Lat: 36°-34.53642'/Long: 107°-16.095'
 Rio Arriba County, NM

Current Schematic

Proposed Schematic

