

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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97 DEC 31 PM 1:28

Sundry Notices and Reports on Wells

OTO Farmington, NM

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
800' FNL, 840' FEL, Sec. 20, T-27-N, R-5-W

5. Lease Number
SF 079392

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name
San Juan 27-5 Unit

8. Well Name & Number
San Juan 27-5 U 37

9. API Well No.
30-039-07019

10. Field and Pool
Blanco MV/Tapacito PC

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 ☐ Change of Plans
☐ Recompletion ☐ New Construction
☐ Plugging Back ☐ Non-Routine Fracturing
☐ Casing Repair ☐ Water Shut off
☐ Altering Casing ☐ Conversion to Injection
☒ Other -pay add ** comm 12/16*

13. Describe Proposed or Completed Operations

It is intended to add Menefee pay to the subject well according to the attached procedure and wellbore diagram.

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JAN 12 1998

OIL CON. DIV.
DIST. 3

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

Signed *[Signature]* (JLDOpps) Title Regulatory Admin. Date 12/30/97

(This space for Federal or State Office use)

APPROVED BY *[Signature]* Title AS/Daniel W. Spencer Date JAN - 8 1998

CONDITION OF APPROVAL, if any:

[Signature]

NMOCD

San Juan 27-5 Unit #37
Menefee Pay Add Procedure
Unit A, Section 20, T27N, R5W
Lat: 36° - 33.82692'/Long: 107° - 22.50456'

The well is currently completed in the Pictured Cliffs, Cliffhouse and Point Lookout intervals with a total production rate of 95 MCFD and remaining reserves of 584 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 5600', 2-3/8" production string, 6 jts 2-7/8" N-80 tubing, 2-7/8" X 3-1/2" N-80 crossover, 5400', 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. TOOH with 1-1/4", 2.4 lb/ft EUE Pictured Cliffs production string set at 3342' and LD. Unset Baker Model 'EGJ' production packer using a straight pull at 3450' and TOOH with 2-3/8", 4.7 lb/ft EUE Mesaverde production string set at 5519'. 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.
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 PBTB (~5569') with air. TOOH.
5. RU wireline. RIH and set CIBP at 5400'. RD wireline.
6. Load hole with 37 bbls (~1550') 2% KCL water. MIRU logging company. Run GR-CBL-CCL from PBTB til out of water. Evaluate CBL. Decent cement bond must exist from PBTB to 5030' to continue with procedure.
7. RIH with 5-1/2" packer and 2-3/8" tubing. Set packer just above CIBP. Pressure test CIBP to 3600 psi. Release packer and PUH to 5326'.
8. Spot 250 gals of 15% HCL across Menefee perf interval from 5128' to 5326'. 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 **(25 holes total)**.

5128', 5130', 5148', 5150', 5164', 5170', 5172', 5178', 5180', 5187', 5199', 5204',
5206', 5208', 5228', 5230', 5232', 5234', 5236', 5238', 5280', 5282', 5284', 5286',
5326'

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, 6 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 5045'. 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 5330' to knock off perf balls. Reset packer at 5045'.

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 **40 BPM**. Average surface treating pressure will be 4000 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) | 1,885 | |
| Totals | 61,885 | 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.

San Juan 27-5 Unit #37
1998 Discretionary Menefee Pay Add

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 5400'. Monitor gas and water returns when applicable. Drill out CIBP. Continue to clean out to PBTD. TOOH.
16. TIH with 5-1/2" packer and 2-3/8" tubing. Set packer just above top Cliffhouse perforation at 4914'. 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 5532'. ND BOP. NU WH. Pump off expendable check. RDMO. Contact Production Operations for well tie-in.

Recommended: 
Production Engineer

Approved:  12/13/97
Drilling Superintendent

Approved:  12/1/97
Team Leader

Contact:

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

San Juan 27-5 Unit #37
Pertinent Data Sheet
Lat: 36° - 33.82692'/Long: 107° - 22.50456'

General Well Information:

Location: 800 FNL, 840 FEL, Unit A, Section 20, T27N, R5W, Rio Arriba County, NM

Federal Lease #: SF 079392
Property #: 007972700

DP #: 53369B
GWI/NRI: 67.46/56.81

Current Field: Blanco Mesaverde Dualled with Pictured Cliffs
Spud: 2/21/58
GL Elevation: 6481'
TD: 5621'

Completed: 3/13/58
DF Elevation: 6491'
PBD: 5569'

Casing Record:

| Hole Size | Csg Size | Weight | Grade | Depth Set | Cmt Vol | Cmt Top |
|-----------|----------|-------------|-------|------------|---------|---------------|
| 13-3/4" | 10-3/4" | 32.75 lb/ft | SW | 173' | 150 | Circ. to Sur. |
| 9-7/8" | 7-5/8" | 26.4 lb/ft | J-55 | 0-3445' | 250 | 2540' (TS) |
| 6-3/4" | 5-1/2" | 15.5 lb/ft | J-55 | 3418-5617' | 300 | 3418 (TS) |

Tubing Record:

PC Side

| Tubing Size | Weight | Grade | Depth Set | Number of Jts |
|-----------------------|------------|-------|-----------|---------------|
| 1-1/4" | 2.33 lb/ft | V-55 | 2804' | 84 |
| 1-1/4" Perf Pup Joint | 2.33 lb/ft | V-55 | 2807' | 1 |
| 1-1/4" | 2.33 lb/ft | V-55 | 3342' | 16 |

MV Side

| Tubing Size | Weight | Grade | Depth Set | Number of Jts |
|-----------------------------------|-----------|-------|-----------|---------------|
| 2-3/8" | 4.7 lb/ft | J-55 | 3450' | 111 |
| Baker Model EGJ Production Packer | | | 3450' | 1 |
| 2-3/8" | 4.7 lb/ft | J-55 | 5482' | 70 |
| 2-3/8" SN | | | 5483' | 1 |
| 2-3/8" Perf Pup Joint | 4.7 lb/ft | J-55 | 5486' | 1 |
| 2-3/8" | 4.7 lb/ft | J-55 | 5519' | 1 |

Logging Record:

Schlumberger Electrical (2/28/58), Gamma Ray (3/5/58), Induction Log (3/5/58) and Schlumberger Micro Log (2/28/58).

Completion:

Perforated the Point Lookout at 5436-5492' and 5514-5532' at 1 SPF. Fracture stimulated with 35,000 lbs sand and 51,300 gals water. Used 45 balls for diversion.

Perforated the Cliff House at 4914-4930', 4956-4970', 4996-5012' and 5018-5030' at 2 SPF. Fracture stimulated with 50,000 lbs sand and 58,700 gals water. Used 85 balls for diversion.

Perforated the Pictured Cliffs at 3270-3278' and 3300-3330' at 2 SPF. Fracture stimulated with 30,000 lbs sand and 33,500 gals water.

Workover History: None

Production History:

Well is currently making 15 MCFD from the Pictured Cliffs and 80 MCFD from the Mesaverde. Current Mesaverde EUR: 1,411 MMCF Mesaverde Remaining Reserves: 534 MMCF.

Pipeline: Williams Field Service

San Juan 27-5 Unit #37

Unit A, Section 20, T27N, R5W
 Lat: 36°-33.82692'/Long: 107°-22.50456'
 Rio Arriba County, NM

Current Schematic

Proposed Schematic

