

submitted in lieu of Form 3160-5

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**

3. Address & Phone No. of Operator  
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M  
1650' FNL, 1450' FEL, Sec. 18, T-29-N, R-7-W

5. Lease Number  
SF 078945  
6. If Indian, All. or  
Tribe Name  
7. Unit Agreement Name  
San Juan 29-7 Unit  
8. Well Name & Number  
San Juan 29-7 U 81  
9. API Well No.  
30-039-07626  
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

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other -pay add	

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.

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

Signed Regan Shadwell (JLDOpps) Title Regulatory Admin. Date 12/30/97

(This space for Federal or State Office use)

APPROVED BY TS/ Duane W. Spencer Title \_\_\_\_\_ Date JAN 16 1998

CONDITION OF APPROVAL, if any:

NMOCD

**San Juan 29-7 Unit #81**  
**Menefee Pay Add Procedure**  
**Unit G, Section 18, T29N, R7W**  
**Lat: 36° - 43.72374'/Long: 107° - 36.48378'**

***The well is currently completed in the Cliffhouse and Point Lookout intervals with a total production rate of 180 MCFD and remaining reserves of 1,685 MMCF. It is intended to add the Menefee to the existing 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 5800', 2-3/8" production string, 5 jts 2-3/8" N-80 tubing, 2-3/8" X 2-7/8" N-80 crossover, 5500', 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 2-3/8", 4.7 lb/ft EUE Mesaverde production string set at 5780'. LD 2-3/8" string. 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" (10.5 lb/ft) casing scraper on the 2-3/8" inspected tubing string hauled to location. Clean out to PBTD (~5868') with air. TOOH.
5. RU wireline. RIH and set CIBP at 5580'. RD wireline.
6. Load hole with 21 bbls (~1300') 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 5250' to continue with procedure.
7. RIH with 4-1/2" packer and 2-3/8" tubing. Set packer just above CIBP. Pressure test CIBP to 3600 psi. Release packer and PUH to 5528'.
8. Spot 150 gals of 15% HCL across Menefee perf interval from 5351' to 5528'. 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 **(22 holes total)**.

**5351', 5353', 5355', 5377', 5392', 5418', 5420', 5422', 5424', 5426', 5471',  
5473', 5475', 5483', 5495', 5497', 5514', 5516', 5518', 5520', 5524', 5528'**

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, 5 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 5260'. 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 5530' to knock off perf balls. Reset packer at 5260'.

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 4500 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)	1,300	
<b>Totals</b>	<b>61,300</b>	<b>90,000</b>

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.

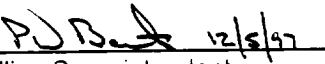
14. Open well through choke manifold and monitor flow. Flow at 20 BPH or less, if sand is observed. **Take pitot gauges when possible.** When pressures allow, release packer

San Juan 29-7 Unit #81  
1998 Discretionary Menefee Pay Add

and TOO. 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 5580'. Monitor gas and water returns when applicable. Drill out CIBP. Continue to clean out to PBTD. TOO.
16. 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 5787'. ND BOP. NU WH. Pump off expendable check. RDMO. Contact Production Operations for well tie-in.

Recommended:   
Production Engineer

Approved:  12/5/97  
Drilling Superintendent

Approved:  11/21/97  
Team Leader

Contact:

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

**San Juan 29-7 Unit #81**  
**Pertinent Data Sheet**  
**Lat: 36° - 43.72374'/Long: 107° - 36.48378'**

**General Well Information:**

Location: 650 FNL, 1450 FEL, Unit G, Section 18, T29N, R7W, Rio Arriba County, NM

Federal Lease #: SF 078945 DP #: 69684  
Property #: 0023421 GWI/NRI: 66.92/56.45

Current Field: Blanco Mesaverde  
Spud: 11/11/52 Completed: 12/22/52  
GL Elevation: 6722' DF Elevation: 6732'  
TD: 5880' PBTD: 5868'

**Casing Record:**

Hole Size	Csg Size	Weight	Grade	Depth Set	Cmt Vol	Cmt Top
12-1/4"	9-5/8"	25.4 lb/ft	SW	172'	125	Circ. to Sur.
8-3/4"	7"	23lb/ft	J-55	0-5066'	300	4000' (TS)
6-1/4"	4-1/2"	10.5 lb/ft	K-55	0-5880'	125	3176' (CBL)

**Tubing Record:**

Tubing Size	Weight	Grade	Depth Set	Number of Jts
2-3/8"	4.7 lb/ft	J-55	5779'	185
SN			5780'	

**Formation Tops:**

Ojo Alamo: 2457'	Pictured Cliffs: 3458'	Menefee: 5296'
Kirtland: 2630'	Lewis: 3540'	Point Lookout: 5614'
Fruitland: 3125'	Cliffhouse: 5090'	

**Logging Record:**

Schlumberger Electrical (12/6/52), Gamma Ray (12/17/52), Induction Log (12/17/52), Cement Bond Log (5/27/70), Induction Log (5/26/70) and Compensated Formation Density Log (5/26/70).

**Completion:**

Originally completed as an openhole producer from 5066' to 5787'.

**Workover History:**

Cement squeezed open hole with 150 sacks cmt. Side tracked this well at 5076'. Drilled to a new TD of 5880'.

Perforated the Point Lookout at 5638-5644', 5656-5668', 5684-5696', 5708-5714', 5736-5748' and 5783-5787' (16 SPZ) in 300 gals 7-1/2% HCL. Fracture stimulated with 70,000 lbs sand and 55,860 gals water at 50 BPM. Used 80 balls for diversion.

Perforated the Cliff House at 5176-5182', 5208-5220' and 5242-5248'. Fracture stimulated with 40,000 lbs sand and 32,760 gals water at 40 BPM. Used 32 balls for diversion.

**Production History:**

Well is currently making 180 MCFD from the Mesaverde. Current Mesaverde EUR: 5,083 MCF Mesaverde Remaining Reserves: 1,685 MMCF. Well was put on lateral compression in 1996.

**Pipeline:** El Paso Natural Gas Company

# San Juan 29-7 Unit #81

Unit G, Section 18, T29N, R7W  
Lat: 36°-43.72374'/Long: 107°-36.48378  
Rio Arriba County, NM

## Current Schematic

## Proposed Schematic

