State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Sundry Notices and Reports on Wells

API # (assigned by OCD)
30-045-24199

1. **Type of Well**
GAS

5. **Lease Number**

6. **State Oil&Gas Lease #**
E-3520-1

2. **Name of Operator**
BURLINGTON RESOURCES **OIL & GAS COMPANY**

7. **Lease Name/Unit Name**
San Juan 32-9 Unit

8. **Well No.**
#61A

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

9. **Pool Name or Wildcat**
Blanco Mesaverde

4. **Location of Well, Footage, Sec., T, R, M**
840'FNL, 1100'FWL, Sec.36, T-32-N, R-9-W, NMPM, San Juan County, NM

10. **Elevation:**

Type of Submission	**Type of Action**	
_X_ Notice of Intent	___ Abandonment	___ Change of Plans
	___ Recompletion	___ New Construction
___ Subsequent Report	___ Plugging Back	___ Non-Routine Fracturing
	___ Casing Repair	___ Water Shut off
___ Final Abandonment	___ Altering Casing	___ Conversion to Injection
	_X_ Other - Payadd	

13. **Describe Proposed or Completed Operations**

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

RECEIVED
JUL - 2 1999
OIL CON. DIV.
DIST. 3

RECEIVED
BLM
93 JUN 30 PM 1:51
070 FARMINGTON, NM

SIGNATURE _____ Regulatory Administrator_____ June 29, 1999_____

trc_____

(This space for State Use)

ORIGINAL SIGNED BY ERNIE BUSCH
DEPUTY OIL & GAS INSPECTOR, DIST. #3

Approved by _____ Title_____ Date JUL - 2 1999

OPERATOR

San Juan 32-9 Unit #61A

Lewis Payadd Procedure
Unit D, Section 36, T-32N, R-9 W
Lat: 36° 56.7564' Long: 107° 44.1882'

This well is currently completed in the Cliff House, Menefee, and Point Lookout. It is intended to add the Lewis to the existing Mesaverde production. The Lewis will be sand fracture stimulated in two stages using 100,000 lbs 20/40 sand and 70Q 20 lb linear gel in each stage. Foam is to be used to limit fluid damage to the Lewis and aide in the flowback. The flowback choke schedule is to be used to ensure that proppant remain in the fractures.

- Comply with all BLM, NMOCD, and BR rules and regulations.
- Hold safety meetings.
- Place fire safety equipment in strategic locations.
- Inspect location and test rig anchors.
- Dig flowback pit or set flowback tank.

Equipment Needed:

(4) Frac Tanks with 2% KCl water
(2) 4-1/2" CIBP
(1) 4-1/2" RBP
(1) 4-1/2" Packer
3800' -- 3-1/2" N-80 9.3#

PROCEDURE:

1. MIRU. Record and report SI pressures on tubing, casing, and bradenhead. Lay blowdown line and blow well down. Kill well with 2% KCl water. ND WH, NU BOP. Test and record operation of rams. NU blooie line and 2-7/8" relief line. Redress production wellhead as needed.

2. TOOH w/ 2-3/8" 4.7# J-55 tubing set at 6299' (SN @ 6269'). Visually inspect tubing, note and report any corrosion and/or scale in/on tubing. Replace bad joints as needed.

3. RU wireline. Run 4-1/2" gauge ring to 5200'. If ring tags up before 5200', TIH with 3-7/8" Bit, 4-1/2" 10.5# casing scraper on 2-3/8" tubing and CO to 5200'. TOOH. TIH with 4-1/2" CIBP and set CIBP @ ± 5200'. Load hole w/ 2% KCl water. TOOH.

4. Run GR-CBL-CCL with 1000 psi from 5200' to 3804' (TOL) correlate to old Induction-Gamma Ray Log. Contact Michele Quisel and Drilling to evaluate CBL.

5. TIH w/ 4-1/2" packer on 2-3/8" 4.7# J-55 tubing and set packer @ 3830'. Pressure test casing and CIBP to 3800 psi. Release packer and TOOH.

1st Stage Lewis:

6. Perforate Lower Lewis as follows using select fire HSC guns loaded with Owens HSC-3125 302T 10 gram charges set at 1 SPF and 120° phasing (Avg. perf diameter – 0.30", Avg. penetration – 16.64" in concrete). Correlate to new GR-CBL-CCL.

   5065' – 75',
   4980' – 90',
   4910' – 20',
   4870' – 80',
   4835' – 40',
   4797' – 4802'

   For a total of 56 holes. RD wireline.

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7. TIH with 4-1/2" RBP, on/off tool and 4-1/2" packer on 2-3/8" tubing.

Set RBP at RBP setting depth. PUH ± 10 ft and set Packer. RU stimulation company and pressure test RBP and lines to 3800 psi. Release packer, and reset packer at Packer Setting Depth. Breakdown perforations and establish an injection rate between 8 and 10 BPM with 200 gals of Acetic Acid + 5% NH4Cl **. Breakdown to the **Max pressure of 3800 psi.** Release packer and RBP. Repeat for the remaining intervals.

** All Acid to contain the following additives/ 1000 gal:

1000 gal	10%	Acetic Acid
2 gal	MSA II	corrosion inhibitor
5%	NH_4CL	clay control

RBP Setting Depth	Packer Setting Depth	Perforation Intervals
5100	4950	5065-75, 4980-90
4950	4850	4910-20, 4870-80
4860	4770	4835-40, 4797-4802

8. TOOH w/ RBP, Packer, and 2-3/8" tubing. PU and TIH w/ 4-1/2" packer, 2 joints 2-3/8" 4.7# J-55, 2-3/8" X 3-1/2" N-80 crossover, and 3-1/2" 9.3# N-80 Frac String. Set Packer @ 3830'.

9. Pressure Test surface lines to 7000 psi. Fracture stimulate Lower Lewis with 100,000 lbs 20/40 sand in 62,492 gals 70Q 20 lb linear gel at a **MAXIMUM RATE OF 40 BPM** in 1.0 to 4.0 ppg stages. Apply 500 psi to annulus. Monitor annulus pressure throughout stimulation. **Tag sand with 3 radioactive isotopes. Maximum Surface Treating Pressure is 6000 psi.**

Stage	BH Sand Conc. ppg	Stage Sand lbs	BH Rate bpm	BH Foam Qual.	Clean Foam Volume gals	Clean Liquid Volume gals	Nitrogen Rate scf/min	Stage N2 mscf
Pad		0	40	80%	17,000	3,400	24,473	247.6
2	1	10,000	40	70%	10,000	2,000	20,480	84.9
3	2	20,000	40	70%	10,000	2,000	19,624	84.8
4	3	40,000	40	70%	13,333	2,667	18,837	113.0
5	4	30,000	40	70%	7,500	1,500	18,111	63.5
Flush		0	40	0%	4,659	4,659	0	0.0
		Total lbs.	**Avg. Rate**	**Avg. Qual.**	**Total gallons**	**Total Gallons**	**Avg. N2 Rate**	**Total mscf**
		100,000	40.0	60%	62,492	16,225	16,921	594

Slow rate during flush. Flush to top perf with KCl water. Record ISIP, 5, 10 and 15 minute shut-in pressures. Shut-in frac valve. RD stimulation company. Install flowback line above frac valve. Lay flowback line to dual-flowbean or dual-choke manifold. Begin flowback when stimulation company is rigged down. Open well to pit in accordance to flowback schedule listed in the table below. Do not shut well in during flowback. When schedule dictates a larger choke size, open ball valve upstream of 2nd flowbean or adjustable choke and open adjustable choke or place correct size flowbean on manifold to pre-determined size listed in table and begin flowing through adjustable choke or 2nd flowbean. Close ball valve upstream of positive flow bean and change out

flow bean to next larger size in table. Open ball valve upstream of positive flow bean and begin flowing. Close ball valve upstream of 2nd flowbean or adjustable choke.

40+ hour Flowback

16/64" Choke	**From Shut-in – Until 2/3 of flush volume has been recovered (Approximately 74 BBL).**
10/64" Choke	**Approximately 3 hrs.**
12/64" Choke	**Approximately 3 hrs.**
14/64" Choke	**Approximately 3 hrs.**
16/64" Choke	**Approximately 4 hrs.**
18/64" Choke	**Approximately 4 hrs.**
20/64" Choke	**Approximately 4 hrs.**
22/64" Choke	**Approximately 4 hrs.**
24/64" Choke	**Approximately 4 hrs.**
32/64" Choke	**Approximately 5 hrs.**
48/64" Choke	**Approximately 5 hrs.**

NOTE: Follow this schedule to utilize a 40+ hour flowback. If well begins to slug or make large amounts of sand to surface, drop to next lower choke size. If well begins to taper off in liquid production (mostly N_2), change to next larger choke size before time schedule dictates.

10. Release packer and TOOH. Stand back 3-1/2" frac string, 3-1/2" X 2-3/8" crossover, and 2-3/8" Frac String.

11. TIH w/ 4-1/2" CIBP, on/off tool and 4-1/2" packer on 2-3/8" tbg and set CIBP @ ± 4760'. PUH, set packer @ 3830, and pressure test CIBP and casing to 3800 psi. Release packer and TOOH.

12. Perforate Upper Lewis as follows using select fire HSC guns loaded with Owens HSC-3125 302T 10 gram charges set at 1 SPF and 120° phasing (Avg. perf diameter – 0.30", Avg. penetration – 16.64" in concrete). Correlate to new GR-CBL-CCL.

    4700' – 05',
    4610' – 20',
    4557' – 67',
    4525' – 30',
    4427' – 37',
    4405' – 15'

    For a total of 56 holes. RD wireline.

13. TIH with 4-1/2" RBP, on/off tool and 4-1/2" packer on 2-3/8" tubing.

    Set RBP at RBP setting depth. PUH ± 10 ft and set Packer. RU stimulation company and pressure test RBP and lines to 3800 psi. Release packer, and reset packer at Packer Setting Depth. Breakdown perforations and establish an injection rate between 8 and 10 BPM with 200 gals of Acetic Acid + 5% NH4Cl **. Breakdown to the **Max pressure of 3800 psi.** Release packer and RBP. Repeat for the remaining intervals.

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** All Acid to contain the following additives/ 1000 gal:

1000 gal	10%	Acetic Acid
2 gal	MSA II	corrosion inhibitor
5%	NH_4CL	clay control

RBP Setting Depth	Packer Setting Depth	Perforation Intervals
4730	4580	4700-05, 4610-20
4590	4500	4557-67, 4525-30
4460	4370	4427-37, 4405-15

14. TOOH w/ RBP, Packer, and 2-3/8" tubing and stand back. TIH w/ 4-1/2" packer, 2 joints 2-3/8" 4.7#, 2-3/8" X 3-1/2" N-80 crossover, and 3-1/2" 9.3# N-80 Frac String. Set Packer @ 3830'.

15. Pressure Test surface lines to 7000 psi. Fracture stimulate Upper Lewis with 100,000 lbs 20/40 sand in 61,018 gals 70Q 20 lb linear gel at a **MAXIMUM RATE OF 40 BPM** in 1.0 to 4.0 ppg stages. Apply 500 psi to annulus. Monitor annulus pressure throughout stimulation. **Tag sand with 3 radioactive isotopes. Maximum Surface Treating Pressure is 6000 psi.**

Stage	BH Sand Conc. ppg	Stage Sand lbs	BH Rate bpm	BH Foam Qual.	Clean Foam Volume gals	Clean Liquid Volume gals	Nitrogen Rate scf/min	Stage N2 mscf
Pad		0	40	80%	17,000	3,400	22,717	229.9
2	1	10,000	40	70%	10,000	2,000	19,011	78.8
3	2	20,000	40	70%	10,000	2,000	18,216	78.7
4	3	40,000	40	70%	13,333	2,667	17,486	104.9
5	4	30,000	40	70%	7,500	1,500	16,811	59.0
Flush		0	40	0%	3,185	3,185	0	0.0
		Total lbs.	**Avg. Rate**	**Avg. Qual.**	**Total gallons**	**Total Gallons**	**Avg. N2 Rate**	**Total mscf**
		100,000	40.0	60%	61,018	14,752	15,707	551

Slow rate during flush. Flush to top perf. Record ISIP, 5 minute, 10 minute, and 15 minute pressures. Shut-in frac valve. RD stimulation company. Install flowback line above frac valve. Lay flowback line to dual-flowbean or dual-choke manifold. Begin flowback when stimulation company is rigged down. Open well to pit in accordance to flowback schedule listed in the table below. Do not shut well in during flowback. When schedule dictates a larger choke size, open ball valve upstream of 2nd flowbean or adjustable choke and open adjustable choke or place correct size flowbean on manifold to pre-determined size listed in table and begin flowing through adjustable choke or 2nd flowbean. Close ball valve upstream of positive flow bean and change out flow bean to next larger size in table. Open ball valve upstream of positive flow bean and begin flowing. Close ball valve upstream of 2nd flowbean or adjustable choke.

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Lat: 36° 56.7564' Long: 107° 44.1882'

40+ hour Flowback

16/64" Choke	**From Shut-in – Until 2/3 of flush volume has been recovered (Approximately 51 BBL).**
10/64" Choke	**Approximately 3 hrs.**
12/64" Choke	**Approximately 3 hrs.**
14/64" Choke	**Approximately 3 hrs.**
16/64" Choke	**Approximately 4 hrs.**
18/64" Choke	**Approximately 4 hrs.**
20/64" Choke	**Approximately 4 hrs.**
22/64" Choke	**Approximately 4 hrs.**
24/64" Choke	**Approximately 4 hrs.**
32/64" Choke	**Approximately 5 hrs.**
48/64" Choke	**Approximately 5 hrs.**

NOTE: Follow this schedule to utilize a 40+ hour flowback. If well begins to slug or make large amounts of sand to surface, drop to next lower choke size. If well begins to taper off in liquid production (mostly N_2), change to next larger choke size before time schedule dictates.

16. Release packer and TOOH. Laydown 3-1/2" frac string, 3-1/2" X 2-3/8" crossover, and 2-3/8" Frac String.

17. TIH w/ 3-7/8" bit on 2-3/8" tubing and CO to CIBP @ 4760'. Monitor gas and water returns. When sand and water allow (less than 5 BPH and trace sand), take a Upper Lewis pitot gauge. DO CIBP @ 4760' with a minimum of 12 BPH mist rate.

18. CO to CIBP @ 5200'. Monitor gas and water returns. When sand and water allow (less than 5 BPH and trace sand), take a complete Lewis pitot gauge. DO CIBP @ 5200' with a minimum of 12 BPH mist rate.

19. Continue to CO to PBTD with air. Blow well at PBTD to check water rates. If needed continue to blow well for clean up. When water rates are below 5 BPH and there is no sand production, TOOH.

20. TIH with an expendable check, one 2-3/8" joint, seating nipple, and remaining production tubing. Broach tubing while running in hole. CO with air/mist to PBTD again, if necessary. Obtain final Lewis/Cliff House/Menefee/Point Lookout pitot gauge. Land tubing at ± 6299'. ND BOP. NU WH. Pump off expendable check. RDMO. Contact Production Operations for well tie-in.

21. RU Pro-Technics. Run After Frac Log across Lewis (5200' – 4250'). RD Pro-Technics.

Recommended: Michele S. Quisel Approved: 6/16/99
Production Engineer Drilling Superintendent
6-7-99

Approved: _____
Team Leader

Contact:

Michele Quisel 324-6162 (WORK) 326-8196(PAGER) 564-9097(HOME)

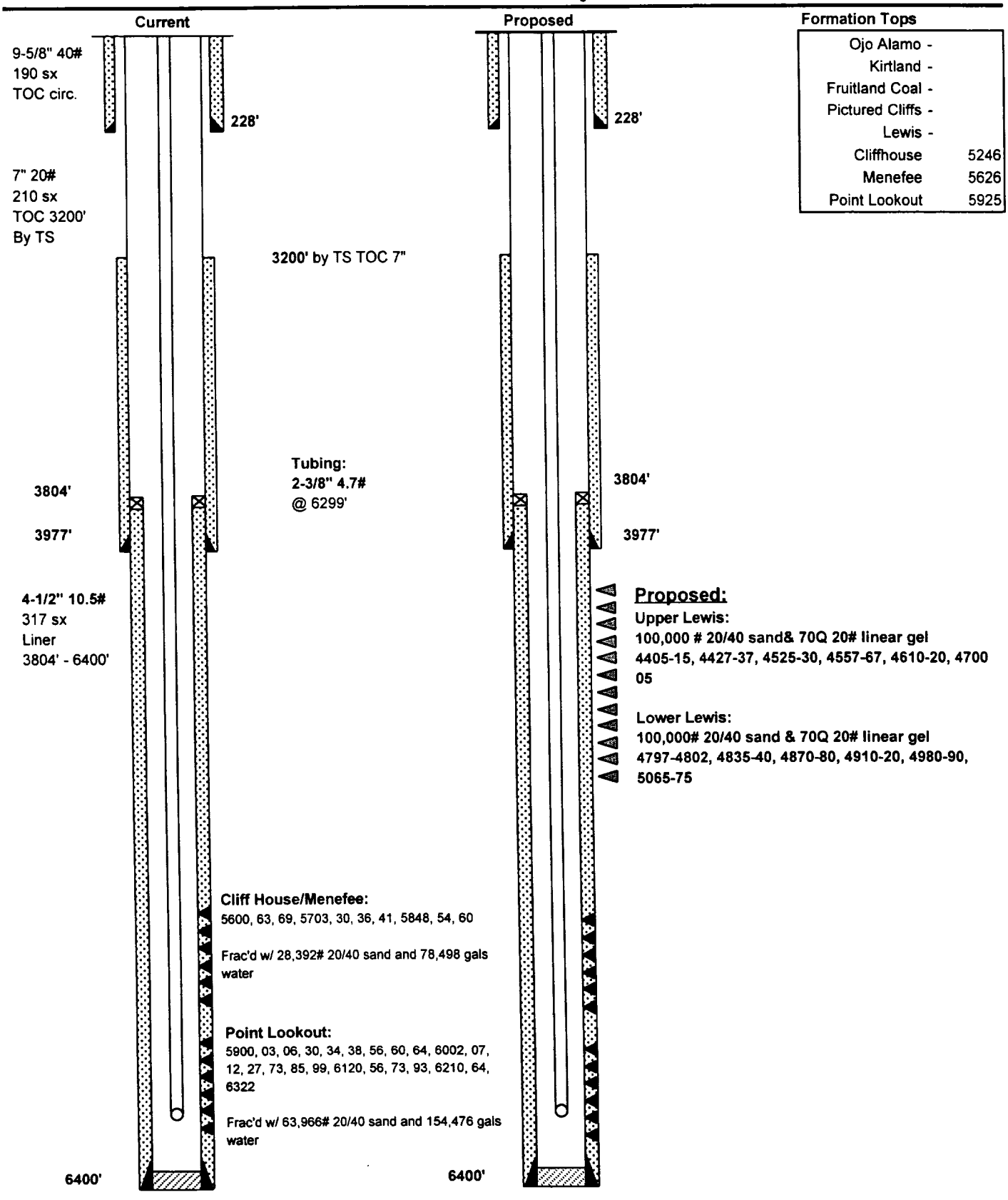
Vendors:	Wireline:	Black Warrior	326-6669
	RA Tagging:	Pro-Technics	326-7133

San Juan 32-9 Unit #61A

840' FNL, 1100' FWL
Unit D Sec. 36, T-32 R-09W
San Juan County, New Mexico

KB 6721 GL 6710

Lat: 36o 56.7564' Long: 107o 44.1882'



Formation Tops

Ojo Alamo	-
Kirtland	-
Fruitland Coal	-
Pictured Cliffs	-
Lewis	-
Cliffhouse	5246
Menefee	5626
Point Lookout	5925

PBTD = 6384'
TD = 6400'

04/29/1999 MSQ