

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

## Sundry Notices and Reports on Wells

96 MAR -9 PM 2:35

## 1. Type of Well

GAS

## 2. Name of Operator

**BURLINGTON  
RESOURCES**

OIL & GAS COMPANY

## 3. Address &amp; Phone No. of Operator

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

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

990' FSL, 965' FWL, Sec. <sup>M</sup>19, T-32-N, R-6-W, NMPM

## 5. Lease Number

SF - 081155

## 6. If Indian, All. or Tribe Name

## 7. Unit Agreement Name

Allison Unit

## 8. Well Name &amp; Number

Allison Unit #23X

## 9. API Well No.

30-045-13189

## 10. Field and Pool

Blanco MV/Basin DK

## 11. County and State

San Juan 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 - Pay add and Commingle

## 13. Describe Proposed or Completed Operations

It is intended to add Menefee, Cliffhouse, and Lewis pay to the subject well per the attached procedure and wellbore diagram. The well will be down hole commingled upon completion of pay add, per DHC-1744.

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OIL CON. DIV.  
DIST. 3

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

Signed *Dan Shanfield* (RLG) Title Regulatory Administrator Date 3/9/98

VKH

(This space for Federal or State Office use)

APPROVED BY *AS/ Denise W. Spencer* Title *Treasurer* Date MAR 13 1998

CONDITION OF APPROVAL, if any:

NMOCD

Allison Unit #23 X  
Burlington Resources Oil & Gas  
Blanco Mesaverde/Basin Dakota Workover  
Unit M-Sec19-T32N-R06W  
Lat: 36° 57.66'  
Long: 107° 30.30'

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- Comply with all BLM, NMOCD, & BR rules & regulations.
  - **Always Hold Safety Meetings.** Place fire and safety equipment in strategic locations.
  - 5400' 3-1/2" 9.3# N-80 Frac String
  - 8100' 2-3/8" 4.7# J-55 tubing
  - Spot and fill 8 frac tanks with 2% KCl water.
  - (1) 5" Packer required for 5" 15# J-55 casing
  - (1) 7" Fullbore pkr, (3) 7" RBP required for 7" 23# J55 pipe.
  - (1) 10,000# Frac Valve
- 

*This well is part of the 1998 Allison Mesaverde optimization program. The well is currently completed in the Dakota (80 MCFD) and the Mesaverde Point Lookout (93 MCFD). Cumulative production is 2346 MMCF from the Dakota and 1889 MMCF from the Mesaverde. Menefee & Cliffhouse pay will be added and stimulated with a 25# Delta frac. Lewis pay will be added and stimulated with 60 Quality Foam. The Lewis will be stimulated and be flowed back in accordance to the choke schedule. Foam is to be used to aide in keeping fluids off the formation and assisting in flowback. The choke schedule is designed to ensure proppant remains in the fracture. Halliburton's Sandwedge will be used to help reduce clean-up time. This well will be commingled upon completion.*

**NOTE:** Dakota perfs open 7900' - 8034'  
Baker Model D pkr @ 6240'  
Point Lookout perfs open 5586' - 5726'

1. MIRU. Record and report SI pressures on tubing, casing, & bradenhead. Blow down casing & tubing. Kill well w/ 2% KCl. ND WH, NU BOP. Send dual wellhead in to be replaced by a single with a 2-3/8" donut.
2. TOOH with 5666' of 2-3/8" Hydrill tubing (MV production string). Visually inspect and replace any bad joints.
3. Attempt straight PU on tubing to release tubing from model 'G' locator seal assembly @ 6240'. TOOH with 7935' of 2-3/8" EUE tubing (DK production string). Visually inspect and replace any bad joints.
4. PU 7" mill and pkr plucker on 2-3/8" tubing, TIH and mill model 'D' pkr @ 6240', TOOH with pkr.
5. RU wireline unit. Run 7" RBP and set @ 5570' to isolate Dakota and Point Lookout. POOH.

6. Pressure test csg to 1000 psi from surface. Hold for 10 minutes. If PT does not hold, locate hole(s). Engineering will provide squeeze design if required. With hole loaded and 1000 psi RU wireline unit and run CCL/CBL from 5550' to 3500'. POOH. Send logs into office to be evaluated.

***Menefee / Cliffhouse Completion:***

7. If already in hole, spot 350 gallons **15% HCL acid** (w/ 2 gal/1000 corrosion inhibitor) across MN/CH @ 5550'. TOOH, standing 2-3/8" back. Change rams to 3-1/2". (If separate trip is required, skip spotting acid.)
8. RU wireline under packoff. Perforate MN/CH (top-down if in acid) @ the following depths w/ 3-1/8" HSC gun w/ Owen 302T 10g charges (0.29" hole, 16.62" penetration), 1 SPF @ 120 degree phasing. RD wireline unit.  
  
**5271', 5283', 5392', 5300', 5314', 5328', 5336', 5345', 5352', 5360', 5370', 5380',  
5387', 5394', 5403', 5415', 5425', 5435', 5446', 5458', 5470', 5480', 5488', 5495',  
5505', 5515', 5525', 5535'**  
**(28 total holes, 264' gross interval)**
9. PU 7" FB pkr on 3-1/2" 9.3# N-80 frac string. Set pkr @ 5550'. Pressure test RBP to 3300 psi. Release and reset pkr to 5120'. Hold 500 psi on annulus during balloff and breakdown.
10. RU stimulation company. Test surface lines to 4300 psi. **Max surface pressure = 3300 psi at 5BPM. Max static pressure = 3000 psi.** Break down MN/CH w/1000 gallons **15% HCL acid** (w/ 2 gal/1000 corrosion inhibitor). Establish rate and record breakdown pressure, rate, and ISIP.
11. Begin balloff. Drop a total of 54 7/8" 1.3 SG RCN ball sealers spaced evenly throughout job. Release pressure, RD stimulation company. Release pkr & TIH knocking balls below bottom perf @ 5535'. Pull up and reset pkr @ 5120'.
12. RU stimulation company. Test surface lines to 7300 psi. **Max surface pressure = 6300 psi at 40 BPM. Max static pressure = 3000 psi.** Hold 500 psi on annulus. Fracture stimulate the MN/CH w/ 100,000# 20/40 Arizona sand in 25# Delta Frac system. Tagging with 3 RA elements. See frac schedule for details. *(4 frac tanks needed)*
13. RD stimulation company. Flowback well as necessary to release pkr, TOOH. RU wireline under packoff. Wireline set 7" RBP @ 5260'. POOH.

***Lewis Completion (First Stage):***

14. Under packoff Perforate Lewis @ the following depths w/ 3-1/8" HSC gun w/ Owen 302T 10g charges (0.29" hole, 16.62" penetration), 1 SPF @ 120 degree phasing. RD wireline unit.

4750', 4765', 4780', 4795', 4810', 4825', 4840', 4860', 4875', 4890', 4910', 4920',  
4945', 4970', 4985', 5005', 5020', 5035', 5060', 5075', 5090', 5105', 5120', 5135',  
5150', 5165', 5180', 5195'

(28 total holes, 445' gross interval)

15. PU 7" FB pkr on 3-1/2" 9.3# N-80 frac string. Set pkr @ 5240'. Pressure test RBP to 3000 psi. Release and reset pkr to 4600'. Hold 500 psi on annulus during balloff and breakdown.
16. RU stimulation company. Test surface lines to 4250 psi. **Max surface pressure = 3250 psi at 5 BPM. Max static pressure = 3000 psi.** Break down Lewis w/1000 gallons **15% HCL acid** (w/ 2 gal/1000 corrosion inhibitor). Establish rate and record breakdown pressure, rate, and ISIP.
17. Begin balloff. Drop a total of 54 7/8" 1.3 SG RCN ball sealers spaced evenly throughout job. RD stimulation company. Release pkr, TIH and knock balls off to below bottom perf @ 5195'. Reset pkr @ 4600'
18. **INJECTION FALLOFF TEST-** RU stimulation company. Test surface lines to 8800 psi. **Max surface pressure = 7800 psi at 25 BPM. Max static pressure = 3000 psi.** Inject at 25 bbl/min for 3 min (approx 75 bbls). Drop rate in 5 bpm increments every 15 seconds until shutdown. Shutdown immediately. Shut-in and monitor pressure decline for 30 min. This is to allow fracture modeling to be done on the Lewis.
19. **Max surface pressure = 7800 psi at 50 BPM. Max static pressure = 3000 psi.** Fracture stimulate the Lewis w/ 200,000# 20/40 Arizona sand treated with 0.12 gal/100# Sandwedge in 60Q N2 foam at 50 BPM. **Flush with 2% KCl water.** Tagging with 3 RA elements. See frac schedule for details. *(2 frac tanks needed)*
20. Flowback well as necessary to release pkr and TOOH. **Monitor and report sand returns to measure efficiency of Sandwedge.**
21. RU Wireline unit. Wireline set 7" RBP at 4740' to isolate the first Lewis stage from the second. POOH. RD wireline unit.

***Lewis Completion ( Second Stage):***

22. Under packoff Perforate Lewis @ the following depths w/ 3-1/8" HSC gun w/ Owen 302T 10g charges (0.29" hole, 16.62" penetration), 1 SPF @ 120 degree phasing. RD wireline unit.


4225', 4240', 4255', 4270', 4285', 4300', 4315', 4330', 4345', 4360', 4370', 4380',  
4390', 4400', 4410', 4425', 4440', 4455', 4470', 4480', 4490', 4500', 4620', 4635',  
4650', 4665', 4680', 4695'

(28 total holes, 470' gross interval)

23. PU 7" FB packer on 3-1/2" 9.3# N-80 frac string. Set pkr @ 4720'. Pressure test RBP to 3000 psi. Release and reset pkr to 4075'. Hold 500 psi on annulus during balloff and breakdown.
24. RU stimulation company. Test surface lines to 4200 psi. **Max surface pressure = 3200 psi at 5 BPM. Max static pressure = 3000 psi.** Break down Lewis w/1000 gallons **15% HCL acid** (w/ 2 gal/1000 corrosion inhibitor). Establish rate and record breakdown pressure, rate, and ISIP.
25. Begin balloff. Drop a total of 50 7/8" 1.3 SG RCN ball sealers spaced evenly throughout job. RD stimulation company. Release pkr, TIH and knock balls off to below bottom perf @ 4695'. Reset pkr @ 4075'
26. RU flowback equipment to commence flowback within 30 min. after shutdown  
  
**INJECTION FALLOFF TEST-** RU stimulation company. Test surface lines to 8800 psi. **Max surface pressure = 7800 psi at 25 BPM. Max static pressure = 3000 psi.** Inject at 25 bbl/min for 3 min (approx 75 bbls). Drop rate in 5 bpm increments every 15 seconds until shutdown. Shutdown immediately. Shut-in and monitor pressure decline for 30 min. This is to allow frac modeling to be done on the Lewis.
27. **Max surface pressure = 7800 psi at 50 BPM. Max static pressure = 3000 psi.** Fracture stimulate the Lewis w/ 200,000# 20/40 Arizona sand treated with 0.12 gal/100# Sandwedge in 70Q N2 foam at 50 BPM. Tagging with 3 RA elements. See attached frac schedule for details. *(2 frac tanks needed)*
28. Shut well in after frac and record ISIP. RD stimulation company. Begin flowback within 30 min of shutdown. Open well to pit, starting with a 10/64" choke. If minimal sand is being produced, change to a larger choke size (16/64"). If choke plugs off, shut well in and remove obstruction from choke and return to flowback. Continue increasing choke size and cleaning well up until fluid returns are minimal. Take pitot gauges when possible. **Monitor and report sand returns to measure efficiency of Sandwedge.**
29. RD flowback equipment. TOOH.
30. TIH w/notched collar on 2-3/8" tubing and clean out to RBP at 4740'. Obtain pitot gauge on upper Lewis. TOOH. TIH with retrieving head, engage RBP, and TOOH.
31. TIH w/notched collar on 2-3/8" tbg and clean out to RBP at 5260'. Obtain pitot gauge for Lewis. TOOH. TIH with retrieving head, engage RBP, and TOOH. TIH w/notched collar on 2-3/8" tbg and clean out to RBP at 5570'. TOOH.
32. TIH with retrieving head, engage RBP at 5570'. TOOH.

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33. PU 4-1/4" drag bit on 2-3/8" tubing and clean out to PBD (8059'). TOOH. TIH with 5" pkr on 2-3/8" tbg. Set pkr at 7850'. Obtain 3 hour production test through separator with 350 psi back pressure for allocation purposes. TOOH.
34. Run after frac tracer log (5740'-4200') and perf efficiency log (8080'-4200')
35. Prepare to run production tubing string as follows: expendable check, one joint 2-3/8" tubing, 1.78" seating nipple, and remaining tubing. Land tubing @ 8000'.
36. ND BOP's, NU single tubing hanger wellhead. Pump off expendable check. Obtain final pitot up tubing. If well will not flow on it's own, make swab run to seating nipple. If swab run is not necessary, run a broach on slickline to ensure that the tubing is clear. RD and MOL. Return well to production.

Recommend:  1-2-98  
Production Engineer

Approved: \_\_\_\_\_  
Basin Opportunities Team Leader

Approved: \_\_\_\_\_  
Drilling Superintendent

RLG3

Vendors:

Stimulation:	Halliburton	324-3500
RA Tag:	Protechnics	326-7133

Production Engineers:	<b>Bobby Goodwin</b>	<b>Steve Campbell</b>
	<b>326-9713-work</b>	<b>326-9546-work</b>
	<b>564-7096-pager</b>	<b>564-1902-pager</b>
	<b>599-0992-home</b>	

RLG3

# Allison Unit # 23 X

Blanco Mesaverde/Basin Dakota

M Section 19, T32N, R6W

San Juan County, NM

Elevation: 6442' GL, 6451' KB

LAT: 36 57.66' / LONG: 107 30.30'

date spud: 07/07/60

