

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

Sundry Notices and Reports on Wells

1. Type of Well
GAS

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

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

4. Location of Well, Footage, Sec., T, R, M
1135' FSL, 1455' FEL, Sec. 12, T-32-N, R-7-W, NMPM, San Juan County

API # (assigned by OCD)
30-045-29624

5. Lease Number
FEE

6. State Oil&Gas Lease #

7. Lease Name/Unit Name
Allison Unit

8. Well No.
#13M

9. Pool Name or Wildcat
WC32N7W120; Pic Cliffs
Blanco MV/Basin DK

10. Elevation:

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

13. Describe Proposed or Completed Operations

It is intended to recomplate the subject well in the Pictured Cliffs formation according to the attached procedure and wellbore diagram. After recompletion, the well will be produced as a dual. The Mesaverde/Dakota formations will continue to be commingled under DHC Order #2008.

RECEIVED
JUL 19 1999
OIL CON. DIV.
DIST. 3

SIGNATURE [Signature] Regulatory Administrator July 16, 1999

vkh

(This space for State Use)

APPROVED SIGNED BY ERNIE BUSCH
Approved by _____

DEPUTY OIL & GAS INSPECTOR, DIST. 33
Title _____

JUL 26 1999
Date _____

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer 00, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-10
Revised February 21, 1999
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-29624		*Pool Code 72319/71599	*Pool Name WC32N7W120; Pictured Cliffs Blanco Mesaverde/Basin Dakota
*Property Code 6784	*Property Name ALLISON UNIT		*Well Number 13M
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 6343'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	12	32N	7W		1135	SOUTH	1455	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres PC-SE 130.52 MV-A11 414.90/DK-A11 414.90	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: *Peggy Bradfield*

Printed Name
Peggy Bradfield

Regulatory Administrator
Title

Date
7-16-99

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

REVISED JULY 15, 1999

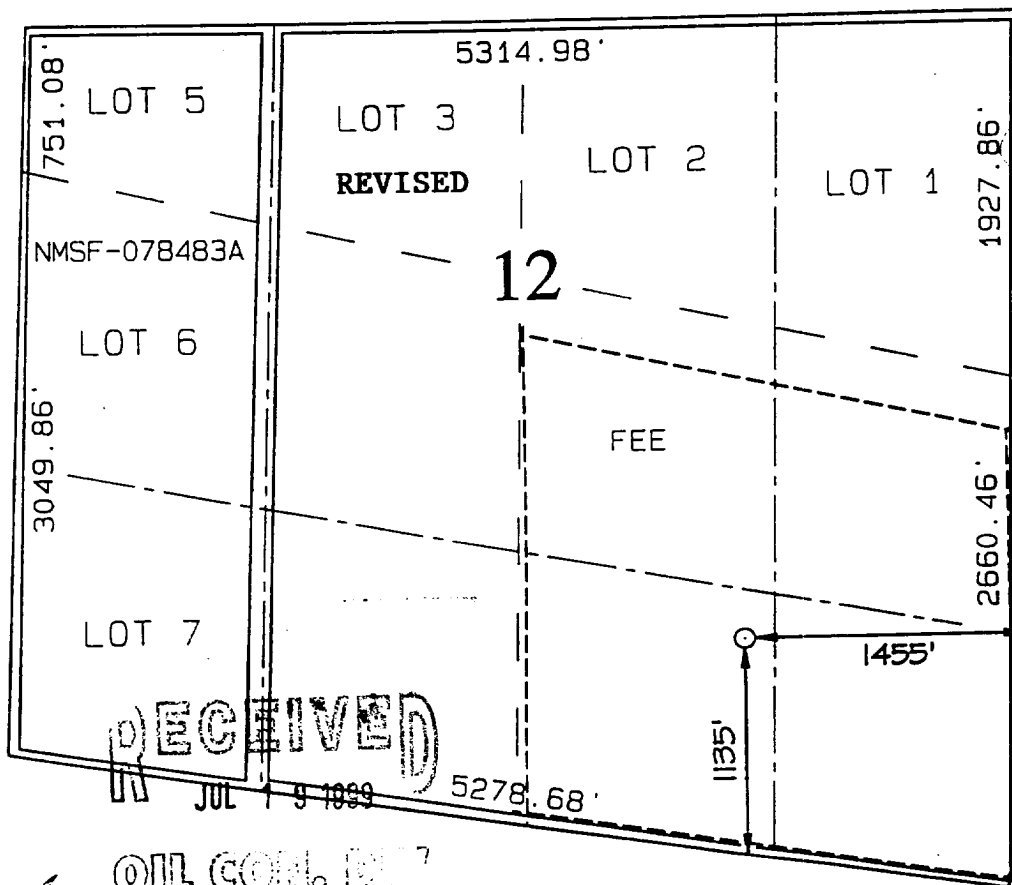
APRIL 7, 1998

Date of Survey

Signature and Seal of Professional Surveyor



Certificate Number 6857



OIL CON. DIV.
DIST. 3

Allison Unit #13M
Pictured Cliffs Recompletion Procedure
Unit O, Section 12, T32N, R07W
Lat: 36° - 59.4342' / Long: 107° - 30.80748'

This well is currently completed in the Mesaverde and Dakota. It is intended to recomplete the Pictured Cliffs interval and produce the well as a dual with a production packer set in the 7" casing, thereby producing the Pictured Cliffs up the annulus. The Mesaverde and Dakota production will continue to be commingled per DHC 2008. The Pictured Cliffs will be completed in a single stage with 135,000 lbs 20/40 sand in a 70Q 20lb linear gel.

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 3200', 1-1/2", 2.76 lb/ft, IJ tubing, 2 jts 2-7/8" N-80 tubing and 3-400 bbl frac tanks.
2. MIRU. Fill 400 bbl tanks with 2% KCL water. Run fluid tests on water. Filter water based upon stimulation company water analysis. 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" Mesaverde/Dakota production string set at 7832'. Visually inspect tubing, note and report any corrosion and/or scale in/on tubing. Replace bad joints as needed.
4. RU wireline company. Wireline set CIBP at 7815' to cover the lower Dakota perforation interval (7822-7833').
5. Run a gauge ring for 7", 20 lb/ft, J-55 casing to 4-1/2" liner top at 3185'. ND wireline company. If unable to run gauge ring to 4-1/2" liner top, PU 6-3/4" bit and 7", 20 lb/ft, J-55 casing scraper and round trip to liner top.
6. TIH with 7" tubing set RBP on 2-3/8" tubing. Set RBP at ~3150'. Release from RBP and fill casing with approximately 125 bbls 2% KCL. PUH to 3045'. Spot 5 bbls 15% HCL acid across Pictured Cliffs perforation interval (2950-3044'). 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

7. NU wireline company. Run GR-CBL-CCL from PBTD to 200' above TOC behind 7" casing. Evaluate CBL. Good cement bond must exist from PBTD to 2850' to continue with the procedure.

PICTURED CLIFFS:

8. TIH with 7" packer and 2 joints of 2-7/8" tubing for wellhead isolation. Set packer and pressure test casing to 3000 psi. Bleed off pressure. Release packer and TOOH.
9. NU wireline. Perforate Pictured Cliffs with 34 holes using select fire HSC guns loaded with Owens HSC-3125 306T 12 gram charges set at 2 SPF (Av. perf diameter - 0.30", Av. pen. -17.48" in concrete). ND wireline company.

2950', 2951', 2952', 2953', 2954', 2957', 2960', 2963', 2964', 2965', 2993',
2994', 2995', 3000', 3036', 3041', 3044' (34 holes total)

10. TIH with 7" packer and 2-3/8" tubing. Set packer at 2700'.
11. Pressure test surface lines to 4600 psi. Hold tailgate safety meeting. Establish an injection rate into perfs with 2% KCL water observing a maximum pressure of 3600 psi. Once pressure has broken back and stabilized, shut pumps down and obtain an ISIP. Continue to breakdown Pictured Cliff perforations with 25 bbls 15% HCL. Drop 68 RCN 7/8" 1.3 specific gravity balls evenly spaced. Attempt to ball off to 3600 psi surface pressure. Use the same additives as in Step 5. ND stimulation company.
12. Bleed off pressure. Release packer. Lower packer to 3050' to knock balls off of perforations. TOOH. Stand back 2-3/8" tubing.
13. TIH with 7" packer and 2 jts 2-7/8" tubing for wellhead isolation. Set packer.
14. **Maximum surface treating pressure is 3000 psi.** Fracture stimulate the Pictured Cliffs with 135,000 lbs 20/40 Arizona sand in 1300 bbls 70Q 20 lb linear gel foam at **35 BPM** constant downhole rate. **Maintain a bottom hole frac gradient of 0.65 psi/ft throughout job.** Tag sand with **3 radioactive tracers.** When sand is in hopper and the concentration begins to drop, call flush. Maintain previous stage's slurry and N₂ rates. Quick flush to 100 ft above top perforation. Average surface treating pressure will be 2,011 psi. Perforation and casing friction is estimated to be 472 psi. Treat per the following schedule:

Stage	Downhole Foam Volume (gals)	Clean Gel Volume (gals)	N ₂ Volume (MSCF)	Sand Volume (lbs)
Pad	5,500	1,650	62.0	—
1.0 ppg	8,100	2,430	91.3	8,100
2.0 ppg	12,825	3,848	144.4	25,650
3.0 ppg	12,150	3,645	136.7	36,450
4.0 ppg	16,200	4,860	182.2	64,800
Flush (100' above top perf)	4,749	1,937	45.3	0
Totals	59,524	18,370	662	135,000

Record ISIP, 5 minute, 10 minute and 15 minute SIP. RD stimulation company.

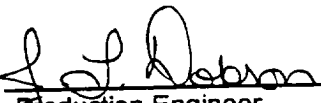
15. RU flow back line and choke manifold. Flow well back after 30 minutes to 1 hour. Open well to pit, starting with a 8/64" choke. If minimal sand is being produced, change to a larger choke size (10/64"). If choke plugs off, shut well in and remove obstruction from choke and return to flowback. Continue increasing choke size and cleaning well up until fluid returns are negligible.
16. When pressures allow, release packer and TOOH. LD 2-7/8" tubing and packer.
17. TIH with 7" RBP retrieving head on 2-3/8" tubing and clean out to RBP at 3150'. Alternate between natural flow and blow stages for clean up. **When water rates are 3 BPH, obtain a Pictured Cliffs pitot gauge.** When sand production allows, latch on to RBP. Release RBP and allow pressures to equalize. TOOH with RBP and LD.
18. TIH with an expendable check, one 2-3/8" joint, standard SN, approximately 158 joints of 2-3/8" EUE tubing, Baker R-3 production packer with 1.9 ID and remaining 2-3/8" EUE

Allison Unit #13M
1999 Discretionary Pictured Cliffs Recompletion

tubing. Broach tubing. Set packer at approximately 3100'. Land end of 2-3/8" tubing as close to 7832' as possible. PU and TIH with one joint of 1-1/2", 2.76#, IJ tubing bull plugged with a perforated sub, aluminum pump off plug, and 1.375" seat nipple. TIH with remaining 1-1/2", 2.76#, IJ tubing. Broach tubing while RIH. Land 1-1/2" tubing at 3044'.

19. ND BOP. NU dual wellhead and manifold assembly. Ensure all connections on wellhead are tight. Pump off 2-3/8" expendable check. Flow well up 2-3/8" tubing. Pump off 1-1/2" aluminum pump off plug. Flow well up 1-1/2" tubing. Obtain stabilized pitot gauges at 15, 30, 45, and 60 min up the Pictured Cliffs tubing string. Record on DFW report. RDMO. Contact Production Operations for well tie-in.
20. RU Protechnics. Run After-Frac log across Pictured Cliffs (2900-3100') through the MV/DK 2-3/8" production string. RD Pro-Technics.

Recommended:



Production Engineer

Approved: _____

Drilling Superintendent

Approved: _____

Team Leader

 5/24/99

Contact:

Jennifer Dobson

599-4026 (work)

564-3244 (home)

324-2461 (pager)

Allison Unit #13M

Unit O, Section 12, T32N, R7W
San Juan County, NM
Lat: 36° - 59.4342'/Long: 107° - 30.80748'

Current Schematic

Proposed Schematic

