

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports on Wells

99 MAR 16 PM 1:00

1. Type of Well
GAS

070 FARMINGTON, NM

Lease Number

SF-080670

If Indian, All. or
Tribe Name

2. Name of Operator

7. Unit Agreement Name

BURLINGTON
RESOURCES

OIL & GAS COMPANY

RECEIVED
APR 27 1999

3. Address & Phone No. of Operator

San Juan 27-4 Unit

Well Name & Number

San Juan 27-4 U #46

API Well No.

30-039-20128

10. Field and Pool

Blanco MV/Basin DK

11. County and State

Rio Arriba Co, NM

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

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

1750' FNL, 850' FEL, Sec.31, T-27-N, R-4-W, NMMP=

H

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 - Commingle

13. Describe Proposed or Completed Operations

It is intended to recompleate the subject well in the Mesaverde formation according to the attached procedure and wellbore diagram. The Mesaverde will then be commingled with the existing Dakota formation. A down-hole commingle application will be filed.

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

Signed *Deanne Spencer* (JLDOpps) Title Regulatory Administrator Date 3/8/99

(This space for Federal or State Office use)

APPROVED BY /s/ Duane W. Spencer Title Team Lead, Petroleum Management Date APR 22 1999

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

9
NMOCD

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, 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

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99 MAR 10 PM 1:00

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-039-20128	72319/71599	Blanco Mesaverde/Basin Dakota
Property Code	Property Name	Well Number
7452	San Juan 27-4 Unit	46
OGRID No.	Operator Name	Elevation
14538	Burlington Resources Oil & Gas Company	6816 GR

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
H	31	27N	4W		1750	North	850	East	RA

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	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
MV-E/320 DK-N/321.16			

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

¹⁶ Original plat prepared 7-1-68 by David O. Vilven	RECEIVED APR 27 1999 OIL CON. DIV. DIST. 3	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 Regulatory Administrative Title 3-8-99 Date
		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. Date of Survey Signature and Seal of Professional Surveyer: Certificate Number

San Juan 27-4 Unit #46
Mesaverde Recompletion Procedure
Unit H, Section 31, T27N, R4W
Lat: 36° – 31.93362'/Long: 107° – 17.10846'

It is intended to recomplete the Mesaverde and commingle it with the Dakota. The Mesaverde interval will be sand fracture stimulated in two stages, Point Lookout and Cliffhouse/Menefee, using a total of 120,000 gals 30 lb linear gel and 180,000 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 a 8100', 2-3/8" inspected tubing, 3 jts 2-3/8" N-80 tubing, 2-3/8" X 2-7/8" N-80 crossover, 6000', 2-7/8" N-80 buttress frac string and 8, 400 bbl frac tanks
2. MIRU. Fill 400 bbl tanks w/ 2% KCL water. Put one load of fresh water in each tank before adding 20% concentrated 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" N-80, buttress Dakota production string set at 7783' and LD. Send production string in to be inspected and salvaged if possible.
4. PU and RIH with a 3-7/8" bit, 4-1/2" (10.5 & 11.6 lb/ft) casing scraper on 2-3/8" tubing hauled to location. Clean out to PBTD (~8054') with air. TOOH.
5. TIH with 4-1/2" CIBP and packer on 2-3/8" tubing. Set CIBP at 6000'. Release from CIBP. Fill casing with approximately 95 bbls. Set packer just above CIBP. Pressure test CIBP to 3600 psi. Bleed off pressure. Release packer and PUH to 5910'. Spot 3 bbls 15% HCL across Point Lookout perf interval (5764-5908'). 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

6. NU wireline company. Run GR-CBL-CCL from PBTD to top of cement. Evaluate CBL. Top of good cement must be above 5200' to continue.

POINT LOOKOUT:

7. Perforate Point Lookout as follows using select fire HSC guns loaded with 12 gram Owens 306T jet charges (Av. perf diameter - 0.30", Av. pen. -17.48" in concrete).

**5764', 5769', 5775', 5793', 5795', 5799', 5802', 5808', 5812', 5814', 5816', 5822', 5824',
5841', 5843', 5847', 5848', 5860', 5862', 5866', 5868', 5881', 5886', 5904', 5908'
(25 holes total)**

RDMO wireline company.

8. PU and RIH with 4-1/2" packer, 3 joints 2-3/8" N-80 tubing, 2-3/8" X 2-7/8" N-80 crossover and 2-7/8" N-80 buttress frac string. Set packer at 5550'.
9. RU stimulation company. Hold tailgate safety meeting. Pressure test surface lines to 7500 psi. Establish an injection rate and pressure into perforations with water. Proceed to breakdown and attempt to balloff Point Lookout perforations with 25 bbls 15% HCL and 50 RCN 7/8" 1.3 specific gravity perf balls to 3600 psi. Evenly space balls throughout job. Use same additives as in Step #5. ND stimulation company. Lower packer to 5910' to knock off perf balls. Reset packer at 5650'.
10. NU stimulation company. **Maximum surface treating pressure is 6500 psi.** Hold 500 psi on annulus, and monitor during the job. Fracture stimulate Point Lookout with 90,000 lbs 20/40 Arizona sand in 60,000 gals 30 lb linear gel at **40 BPM. If pressures allow, increase injection rate.** Average surface treating pressure will be 6,000 psi. Estimated perforation and tubing friction pressure will be 6,175 psi. Treat per the following schedule:

Stage	Water (gals)	Sand Volume (lbs)
Pad	10,000	
1.0 ppg	10,000	10,000
2.0 ppg	25,000	50,000
3.0 ppg	10,000	30,000
Flush (top perf)	1,443	
Totals	56,443	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

NDMO stimulation company.

11. Open well through choke manifold and monitor flow. Flow at 20 BPH or less, if sand is observed. When pressures allow, release packer and TOOH.
12. NU wireline. Set CIBP at 5720'. RD wireline.

CLIFFHOUSE/MENEFEE:

13. RU wireline. Perforate Cliffhouse and Menefee as follows using select fire HSC guns loaded with 12 gram Owens 306T jet charges (Av. perf diameter - 0.30", Av. pen. -17.48" in concrete).

5392', 5393', 5398', 5407', 5409', 5411', 5418', 5419', 5420', 5424', 5426', 5510', 5514', 5552', 5553', 5596', 5605', 5618', 5630', 5639', 5640', 5667', 5669', 5679', 5681'
(25 holes total)

RDMO wireline company.

14. PU and RIH with 4-1/2" packer, 3 joints 2-3/8" N-80 tubing, 2-3/8" X 2-7/8" N-80 crossover and 2-7/8" N-80 buttress frac string. Set packer just above CIBP. Pressure test CIBP to 3600 psi. Release packer and PUH to 5700'. Spot 6 bbls 15% HCL across Cliffhouse and Menefee perf interval from 5392' to 5681'. PUH and set packer at 5200'. Use the same additives as in Step #5.
15. NU stimulation company. Hold tailgate safety meeting. Pressure test surface lines to 7500 psi. Establish an injection rate and pressure into perforations with water. Proceed to breakdown and attempt to balloff Cliffhouse and Menefee perforations with 25 bbls 15% HCL and 50 RCN 7/8" 1.3 specific gravity perf balls to 3600 psi. Evenly space balls throughout job. Use same additives as in Step #5. ND stimulation company. Lower packer to 5700' to knock off perf balls. PUH and reset packer at 5275'.
16. NU stimulation company. **Maximum surface treating pressure is 6500 psi.** Hold 500 psi on annulus and monitor during the job. Fracture stimulate the Cliffhouse and Menefee with 90,000 lbs 20/40 Arizona sand in 60,000 gals 30 lb linear gel at **40 BPM**. **If pressures allow, increase injection rate.** Average treating pressure will be approximately 5,651 psi. Estimated perforation and tubing friction pressure will be 5,834 psi. Treat per the following schedule:

Stage	Water (gals)	Sand Volume (lbs)
Pad	10,000	
1.0 ppg	10,000	10,000
2.0 ppg	25,000	50,000
3.0 ppg	10,000	30,000
Flush (100' above top perf)	1,286	
Totals	56,286	90,000

Slow rate during flush. If well is on vacuum near end of frac job, cut flush as necessary to avoid overflushing.

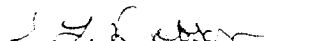
Frac with the following additives per 1000 gals frac fluid. **Gel will be mixed on the fly.**

*	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.

17. Open well through choke manifold and monitor flow. Flow at 20 BPH or less, if sand is observed. When pressures allow, release packer and TOO. LD packer, 2-3/8" N-80 tubing, 2-3/8" X 2-7/8" crossover and 2-7/8" N-80 frac string.
18. TIH with 3-7/8" bit on 2-3/8" tubing. Alternate blow and natural flow stages to clean up the Cliffhouse and Menefee. Monitor gas and water returns. **Take a quick "dirty" pitot gauge.** Drill up CIBP at 5720' when sand production is at a safe rate. While drilling CIBP use a 10-12 BPH mist rate.

19. Continue to alternate blow and natural flow stages to clean up the Cliffhouse, Menefee and Point Lookout intervals until water is down to 3 BPH and sand production is minimal. **Take a pitot gauge.** Run Mesaverde only 3 hour production test through separator using a back pressure of 150 psi. This is necessary for NMOCD commingling regulations. When test is complete, drill out CIBP at 6000' and chase to PBTD. While drilling CIBP use a 10-12 BPH mist rate. TOOH.
20. TIH with an expendable check, one 2-3/8" 4.7 lb/ft, J-55 joint, standard SN and remaining 2-3/8" 4.7 lb/ft, J-55 tubing. Rabbit tubing while running in hole. CO with air/mist to PBTD again, if necessary. Land tubing at 7957'. ND BOP. NU WH. Pump off expendable check. RDMO. Contact Production Operations for well tie-in.

Recommended: 
Production Engineer

Approved:  2/12/99
Drilling Superintendent

Approved:  1/4/99
Team Leader

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

San Juan 27-4 Unit #46

Unit H, Section 31, T27N, R4W

Rio Arriba County, NM

Lat: 36° - 31.93362'/Long: 107° - 17.10846'

Current Schematic

Proposed Schematic

