

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports of Wells

67 MAY 30 PM 1:13
070 FARMINGTON, NM

1. Type of Well
GAS

Lease Number
SF-078115
6. If Indian, All. or
Tribe Name

2. Name of Operator

7. Unit Agreement Name

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

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

8. Well Name & Number
Grenier #17

9. API Well No.
30-045-11698

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

990' FNL, 990' FWL, Sec. 6, T-31-N, R-11-W, NMPM

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 - Commingle

13. Describe Proposed or Completed Operations

It is intended to add the Mesaverde formation to the subject well according to the attached procedure and wellbore diagram. After recompletion the well will be down hole commingled. A down hole commingle application will be applied for.

RECEIVED
MAY - 9 1997

OIL CON. DIV.
DIST. 3

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

Signed [Signature] (MEL4) Title Regulatory Administrator Date 4/26/97

(This space for Federal or State Office use)

APPROVED BY [Signature] Title [Signature] Date MAY - 6 1997

CONDITION OF APPROVAL, if any:

Q

NMOCD

<div>990'</div> <div>990'</div> <div>990'</div> <div>6</div> <div>RECEIVED MAY - 9 1997 OIL CON. DIV. DIST. 3</div>	Not resurveyed, prepared from a plat by Ernest V. Echohawk dated 3-26-66.	<div>17 OPERATOR CERTIFICATE</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</div> <div><u>Peggy Bradfield</u> Signature Peggy Bradfield Printed Name Regulatory Administrator Title 4-28-97 Date</div> <div>18 SURVEYOR CERTIFICATE</div> <div>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made or under my supervision, and that the same is true, correct to the best of my belief.</div> <div>4/24/97</div> <div>Date of Survey</div> <div>Signature and Seal of Professional Surveyor</div> <div><div>NEALE C. EDWARDS NEW MEXICO 6857 REGISTERED PROFESSIONAL SURVEYOR</div><div>6857</div><div>Certificate Number</div></div>
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Grenier 17 - Mesaverde
Recompletion Procedure
Lat-Long: 36° - 55.91' / 108° - 2.07'
Unit D, Section 6, T31N-R11W
March 21, 1997

1. Hold safety meeting. Comply with all MOI, BLM and NMOCD rules and regulations. Install 14 frac tanks and 1x400 bbl rig tank. Fill each frac tank with 3#'s of biocide and filtered (25 micron) 2% KCl water.
2. Obtain and record all wellhead pressures. NU relief line. Blow well down and kill with 2% KCL water as necessary. ND WH and NU BOP.
3. TOOH w/ 2-3/8" Dakota tubing set at $\pm 7632'$ and stand back. Inspect tubing and replace bad tubing as necessary.
4. PU 3-7/8" bit and 4-1/2" (11.6#) casing scraper on 2-3/8" tubing and clean out to PBTD of $\pm 7674'$. Blow hole clean with air/mist. Obtain pitot gauge and record on morning report. TOOH.
5. RIH and wireline set a 4-1/2" CIBP @ $\pm 7500'$. Load hole from surface with 2% KCL water.
6. Run CBL/CCL/GR from 5700' to surface. Send logs to office.
7. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 buttress frac string. Pressure test casing to 3800 psi. TOOH and stand back frac string and packer.
8. Perforate the following Point Lookout interval using 3-1/8" HSC guns with 12 gram charges and 0.31" diameter holes: (27 perfs total)

5342	5409	5510
5351	5415	5527
5357	5419	5534
5360	5429	5556
5367	5433	5585
5371	5467	5623
5384	5479	5626
5393	5485	5650
5403	5493	

9. Inspect guns to ensure all perforations fired.
10. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 buttress frac string.

11. Balloff Point Lookout perforations with 2000 gallons of 15% HCL acid and RCN balls (2 balls per perforation hole). Maximum allowable treating pressure is 3800 psi. TOOH and stand back frac string and packer. RU wireline, retrieve balls w/ 4-1/2" junk basket and report number of hits.
12. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 buttress frac string.
13. RU frac company. Hold safety meeting. Pressure test surface lines to 4800 psi. **(Maximum allowable treating pressure is 3800 psi)**. Fracture Stimulate Point Lookout interval at 50 BPM using slickwater and 100,000 #'s of 20/40 Arizona sand tagged w/ Iridium. (See attached procedure.) Do not over displace during flush. Shut in well immediately after completion of the stimulation until pressure falls to zero.
14. Release packer and TOOH standing back frac string and packer. Check and inspect packer.
15. TIH w/ 4-1/2" RBP and set @ $\pm 5300'$. TIH w/ 4-1/2" fullbore packer, load hole with 2% KCL water and pressure test CIBP to 3800 psi. TOOH and stand back frac string and packer.
16. Perforate Menefee interval using 3-1/8" HSC guns with 10 gram charges and 0.29" diameter holes: (19 perfs total)

5024	5204
5028	5210
5038	5245
5043	5249
5093	5252
5096	5268
5115	5274
5159	5280
5162	5283
5193	

Inspect guns to ensure all perforations fired.

17. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 buttress frac string.
18. Balloff Menefee perforations with 1500 gallons of 15% HCL acid and RCN balls (2 balls per perforation hole). Maximum allowable treating pressure is 3800 psi. TOOH and stand back frac string and packer. RU wireline, retrieve balls w/ 4-1/2" junk basket and report number of hits.
19. TIH w/ 4-1/2" fullbore packer and two joints of 2-7/8" N-80 buttress frac string.

20. RU frac company. Hold safety meeting. Test surface lines to 4800 psi. (**Maximum allowable treating pressure is 3800 psi**). Fracture stimulate Menefee @ 40 BPM using slickwater and 75,000 #'s of 20/40 Arizona sand tagged w/ Iridium. Do not over displace during flush. Shut in well immediately after completion of the stimulation until pressure falls to zero.
21. Release packer and TOOH laying down frac string and packer.
22. TIH w/ 2-3/8" tubing w/ notched collar and CO to RBP @ $\pm 5300'$. Obtain pitot gauge for Menefee interval. TOOH. TIH w/ retrieving head and release RBP @ $\pm 5300'$. TOOH.
23. TIH w/ 3-7/8" mill and CO to CIBP @ 7500'. Obtain pitot gauge for Mesaverde formation. Drill out CIBP @ $\pm 7500'$ and CO to PBTD. PU above the Mesaverde perforations and flow the well naturally, making short trips for clean up when necessary. Obtain pitot gauge for Mesaverde and Dakota after clean up.
24. When sand production has diminished, TOOH.
25. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, an S-nipple, then the remaining 2-3/8" tubing. CO to PBTD. Land tubing near bottom perforation (7671').
27. ND BOP's, NU WH. Pump off expendable check. Obtain final pitot up the tubing if possible. If well will not flow on it's own, make swab run to FN. If a 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: M.E. Lutey
Production Engineer

Approval: _____
Asset Team Leader

Approval: _____
Drilling Superintendent

Contacts:

Engineers:

Mary Ellen Lutey
Office - (599-4052)
Home - (325-9387)
Pager - (324-2671)

Lori Lantz
Office - (599-4024)
Home - (324-0692)

Frac Consultants:

Mark Byars
Pager - (327-8470)
Mobile - (320-0349)
Home - (327-0096)

Mike Martinez
Pager - (599-7429)
Mobile - (860-7518)
Home - (327-6161)

Grenier #17

Unit D, Sec. 6, T31N, R11W

Location: 990' FNL, 990' FWL
San Juan County, NM

Latitude: 36-55.91'
Longitude: 108-02.07'

Current Field: Basin Dakota
Spud: 5/23/66
Elev GL: 4650'
TD: 7710'

Logs Run: GR-Neutron
Completed: 6/10/66
Elev KB:
PBTD: 7674'

CASING RECORD:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Depth Set</u>	<u>Cmt Vol</u>	<u>Cmt Top</u>
15"	10-3/4"	32.75#	J-55	293'	300 sx	To surface
9-7/8"	7-5/8"	24#		3290'	500 sx	2000' (TS)
6-3/4"	4-1/2"	10.5# & 11.6#		7707'	400 sx (2 stg)	Unknown

LINER RECORD:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Depth Set</u>	<u>Cmt Vol</u>	<u>Cmt Top</u>
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TUBING RECORD:

<u>Tubing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Depth Set</u>	<u>Joints</u>	<u>Other</u>	<u>Depth</u>
2-3/8"			7632'	242		
				Float Collar set @ 3290' and		7674'

FORMATION TOPS:

Ojo Alamo	—	Pictured Cliffs	—	Pt Lookout	5340'
Kirtland	—	Cliffhouse	4683'	Gallup	6618'
Fruitland	—	Menefee	4883'	Dakota	7610'

Completions:

Dakota

Perfs: 7524'-7671'

Frac'd w/74,180 gal water, 40,000# 20/40 sand and 20,000# 10/20 sand

Cementing Information

10-3/4" csg: 300 sx Ideal Class C cmt w/2% CaCl2

7-5/8" csg: 450 sx 8% gel Class C 2% CaCl2 & 50 sx Neat Class C w/2% CaCl2

4-1/2" csg: 1st stg - 125 sx 4% gel Class C w/.8% Halad-9. 2nd stg - 275 sx 12% gel Class C w/.5# flocele/sx

Workover History:

MEL:plh 3/21/97

GRENIER #17

Current 01-14-97

990' FNL, 990' FWL

BASIN DAKOTA
UNIT D, SEC 06, T31N, R11W, SAN JUAN COUNTY, NM

COMPLETED: 6/10/66
ELEVATION: 4650' GR

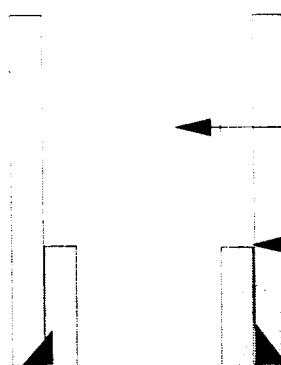


15" HOLE

10-3/4" 32.75# CSG SET @ 293'
CEMENT WITH 300 SX TO SURFACE

9-7/8" HOLE

OJO ALAMO NA
KIRTLAND NA'



TOC 2000' (TS)

2-3/8" TBG SET @ 7632'

TOC UNKNOWN

7-5/8" 24# CSG SET @ 3290'
FLOAT COLLAR @ 3257'
CEMENT WITH 500 SX

FRUITLAND NA
PICTURED CLIFFS NA

HUER. BENTONITE @ 3741'

6-3/4" HOLE

MASS. CLIFF HOUSE @ 4683'
MENEFEES @ 4883'

MASS. POINT LOOKOUT @ 5340'

MANCOS @ 5717'

GALLUP @ 6618'

GREENHORN @ 7410'
GRANEROS @ 7464'

DAKOTA @ 7610'

DAKOTA PERFS: 7524'-7671' FRAC W/74,180
GAL WATER, 40,000# 20/40 SAND AND 20,000#
10/20 SAND

4-1/2" 10.5# & 11.6# CSG SET @ 7707'
FLOAT COLLAR @ 7674'
CEMENT WITH 400 SX (2 STAGES)

TD: 7710'
PBD: 7674'