

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

790' FSL, 1650' FWL, Sec. 20, T-30-N, R-9-W, NMPM

DHC-1488

5. Lease Number

SF-076934A

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Florance B #1

9. API Well No.
30-045-09275

10. Field and Pool
Blanco Pict. Cliffs/
Blanco Mesaverde

11. County and State
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other - Mesaverde pay add and commingle

☒ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to add pay to the Mesaverde formation of the subject well according to the attached procedure and wellbore diagram. The Pictured Cliffs formation will also be restimulated. The well will then be down-hole commingled under DHC-1488.

Please cancel intent sundry approved 3-5-97 to commingle.

RECEIVED
SEP 2 9 1997

OIL CON. DIV.
DIST. 3

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

Signed Nancy Altman (RG5) Title for Regulatory Administrator Date 9/24/97

(This space for Federal or State Office use)

APPROVED BY Doane W. Spence

Title _____

Date

SEP 25 1997

CONDITION OF APPROVAL, if any:

NMCC

Florance B #1
Pictured Cliffs/ Mesa Verde Commingle Completion Procedure
N 20 30N 09W
San Juan County, NM
Latitude: 36 Deg., 47.53 Min
Longitude: 107 Deg., 48.38 Min.

Summary:

The subject well is a 1998 Pictured Cliffs/ Mesa Verde commingle completion in 7" casing and 4-1/2" liner section. This well was originally drilled in 1962 and completed in the Pictured Cliffs and Mesa Verde formation. The subject well has not been completed in the Menefee interval in this quarter section and will be recompleted during the proposed workover. The Pictured Cliffs formation will be stimulated with 29,160 gal of 70Q N₂ foamed 25# linear guar gel and 100,000# 20/40 mesh sand. The Menefee interval will be fracture stimulated with 45,772 gal. of 15# cross-linked gel as the base fluid and 100,000# 20/40 mesh sand. The well will then be cleaned-up and placed on production.

- Comply to all NMOC, BLM and ER regulations. Conduct daily safety meetings for all personnel on location. Notify SR regulatory (Peggy Bradfield 320-9727) and the appropriate Regulatory Agency prior to pumping any cement job. If an unplanned cement job is required, approval is required before the job can be pumped. If verbal approval is obtained, document the approval in Dims. Allow adequate notice prior to the pump time for the Agency to witness the cementing operation.
 - Inspect location and wellhead and install rig anchors prior to rig move.
 - Construct blow pit.
1. MOL, hold safety meeting and RU completion rig. Insure all safety equipment is strategically located and functioning properly. NU relief lines to blow pit. Set four (4) 400 BBL frac tanks and fill w/ 2% KCL. Blow well down and kill well with 2% KCL water as necessary. ND wellhead and NU 7-1/16" 3M BOP, stripping head and blooie line. Test BOP.
 2. TOOH w/ 1-1/4" Pictured Cliffs tbgs. set @ 2706' and lay down (during 1995 workover, new tbgs. depth and number of jts. used was not reported). TOOH w/ 2-1/16" Mesa Verde tbgs. set @ 4984' and Baker Model "G" seal assy. and lay down.
 3. PU Baker CJ milling tool on 2-3/8" 4.7# J-55 workstring and TIH. Mill on Baker Model "D" pkr. with air/mist (minimum mist rate is 12 BBL/hr). Recover pkr. and TOOH.
 4. PU 3-7/8" bit and 4-1/2" 10.5# casing scraper on 2-3/8" 4.7# J-55 workstring and clean out to PBTD of +/- 5130. Obtain pitot gauge and record on morning report. TOOH.
 5. RU wireline and run CBL/CCL/GR and dual spaced neutron log from PBTD @ 5130' to 1500'.** Send logs to office immediately and perforations and setting depths will be supplied for the Menefee and Pictured Cliffs interval only. A squeeze procedure will be provided if TOC does not cover the Fruitland and Ojo Alamo interval.
- ** Tie into liner top @ 2860'
6. RIH and wireline set a 4-1/2" RBP @ 4940'. POOH. RD wireline company.
 7. TIH w/ 7" fullbore packer and two (2) jts. of 2-7/8" N-80 **BUTTRESS** tbgs. Set packer and pressure test casing and RBP to 3000 psi. Release packer and TOOH standing back tubing.
 8. TIH w/ 2-3/8" 4.7# J-55 workstring to +/- 4940' and spot 300 gal 15% HCL acid across Menefee interval (approx. +/- 4940' - +/- 4550').** TOOH.

** All acid to contain the following additives/1000 gal.:

2 gal.	CI-22	corrosion inhibitor
5 gal.	Ferrotrol-300L	iron control
1 gal.	Flo-back 20	surfactant
0.5 gal.	Clay Master-5C	clay control

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9. Perforate approximately 21 holes in the Menefee interval (+/- 4494' - +/- 4994') top down, using 3-1/8" HSC select fire guns with 12 gram charges and 0.27" diameter holes. (Perforations will be provided after reviewing logs).** RD wireline company.
10. TIH w/ 4-1/2" pkr., two (2) jts. 2-3/8" 4.7# J-55 tbg. and 2-7/8" N-80 **BUTTRESS** frac string and set @ 4490'. RU stimulation company. Pressure test surface lines to 6000 psi. Breakdown perforations @ 12-15 BPM w/1000 gal. 15% HCL acid.** Drop forty two (42) 7/8" 1.1 SG RCN balls @ 4 balls/bbl. Displace acid w/2% KCL water to bottom perforation. Balloff to maximum pressure of 4000 psi. Record breakdown pressure, ball action and ISIP. RD stimulation company.

** All acid to contain the following additives/1000 gal.:

2 gal.	CI-22	corrosion inhibitor
5 gal	Ferrotrol-300L	iron control
1 gal	Flo-back 20	surfactant
0.5 gal	Clay Master-5C	clay control

11. Release pkr. and TIH knocking balls off perforations.
12. RU stimulation company to frac down frac valve and 2-7/8" N-80 **BUTTRESS** frac string. Hold pre-job safety meeting. Pressure test surface lines to 6000 psi prior to stimulation. Maximum allowable surface treating pressure is 5000 psi.
13. Fracture stimulate in 1.0 to 4.0 ppg stages @ 25 BPM constant downhole rate with 45,772 gal. 15# cross-linked gel as base fluid and 100,000# 20/40 mesh sand. When sand concentration begins to drop, call flush. Flush to top perf @ +/- 4494'**. Fracture Upper Point Lookout formation to the following schedule:

<u>Stage</u>	<u>Water Vol. (gal)</u>	<u>Sand Vol. (lbs.)</u>	<u>Type</u>
Pad	7,000	0	20/40 AZ
1.0 ppg	5,000	5,000	20/40 AZ
2.0 ppg	12,500	25,000	20/40 AZ
3.0 ppg	10,000	30,000	20/40 AZ
4.0 ppg	10,000	40,000	20/40 AZ
Flush	1,272	0	
Totals	45,772	100,000	

Treat frac fluid with the following additives per 1000 gallons:

* 3 # Bacteriacide	(added before filling with water)
* 0.3 mCi Sb-124	(Zero wash radioactive sand mixed on fly, 1-2 ppg stage)
* 0.3 mCi Sc-46	(Zero wash radioactive sand mixed on fly, 3 ppg stage)
* 0.4 mCi Ir-192	(Zero wash radioactive sand mixed on fly, 4-5 ppg stage)

** After 75% of flush volume has been pumped (+/-954 gal), cut rate to 10 BPM. If well goes on a vacuum, shut down. Otherwise flush to top perf @ +/- 4494'.

14. Release pkr. and TOOH standing back 2-7/8" N-80 **BUTTRESS** frac string.
15. RIH and wireline set a 7" RBP @ +/- 2790'. Dump 10' of sand on top of RBP w/ dump bailer.

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16. TIH w/7" fullbore pkr. and approx. 87 jts. 2-7/8" N-80 **BUTTRESS** frac string and set pkr. @ +/- 2710'.
17. RU stimulation company. Pressure test surface lines to 4500 psi. Pump 300 gal of 15% HCL @ BPM across Pictured Cliffs Perforations prior to pad stage in frac job.** Maximum downhole pressure of 3500 psi.

** All acid to contain the following additives/1000 gal.:

2 gal.	CI-22	corrosion inhibitor
5 gal	Ferrotrol-300L	iron control
1 gal	Flo-back 20	surfactant
0.5 gal	Clay Master-5C	clay control

18. Fracture stimulate the Pictured Cliffs interval in 1.0 to 5.0 ppg stages @ \pm 40 BPM constant downhole rate with 29,160 gal. of 70Q N₂ foamed 25# linear guar gel and 100,000 lbs of 20/40 mesh Arizona sand. **Maintain a bottom hole frac gradient of 0.65 psi/ft throughout job.** When sand is in hopper and the concentration begins to drop, call flush. **Flush to top perforation with +/-5.5 fluid bbls and 1400 scf N₂.** Monitor bottomhole treating pressure, surface treating pressure, downhole rate, foam quality and sand concentration with computer van. Treat per the following schedule:

<u>Stage</u>	<u>Foam Volume (gal)</u>	<u>Clean Gel Volume (gal)</u>	<u>Sand Volume (lbs)</u>	<u>Type</u>
Pad	3,000	900	0	20/40 Az
1 ppg	1,000	314	1,000	20/40 Az
2 ppg	2,000	655	4,000	20/40 Az
3 ppg	5,000	1,705	15,000	20/40 Az
4 ppg	7,500	2,660	30,000	20/40 Az
5 ppg	10,000	3,684	50,000	20/40 Az
Flush	660	198	0	
Totals	29,160	10,116	100,000	

Treat frac fluid with the following additives per 1000 gallons:

* 25# GW-27	(Gelling agent pre-mixed if full tank)
* 1.0 gal Inflow-150	(Non-ionic surfactant pre-mixed in full tank)
* 1.0 # GWB-10	(Enzyme breaker mixed on fly)
* 1.0# GWB-5	(Oxidizer breaker mixed on fly)
* 5.0 gal FAW-1	(Foamer mixed on fly)
* 0.38# X-CIDE-207	(Bactericide pre-mixed in full tank)
* 0.3 mCi Sb-124	(Zero wash radioactive sand mixed on fly, 1-2 ppg stage)
* 0.3 mCi Sc-46	(Zero wash radioactive sand mixed on fly, 3 ppg stage)
* 0.4 mCi Ir-192	(Zero wash radioactive sand mixed on fly, 4-5 ppg stage)

19. Shut well in after frac and record ISIP, 5, 10 and 15 shut-in pressure. RD stimulation company. Install flowback line above frac valve. Wait for 30 minutes to 1 hour before commencing flowback. Open well to pit in accordance to flowback schedule listed in the table below. If choke plugs off, shut well in and remove obstruction from choke and return to flowback schedule. **Do not replace with next larger choke size until schedule dictates.** Continue cleaning well up until fluid returns are negligible. **Take pitot gauges when possible.**

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8/64 choke from	shut-in psi to 300 psi
10/64 choke from	300 psi to 150 psi
12/64 choke from	150 psi till well dies

NOTE: If well begins making sand during flowback, drop to next smaller choke size.

20. Release packer and TOOH laying down 2-7/8" N-80 **BUTTRESS** frac string.
21. TIH w/ 6-1/4" bit on 2-3/8" 4.7# J-55 workstring and CO to RBP set @ +/- 2790'. Obtain accurate pitot gauge for Pictured Cliffs interval. Record a three (3) hour Pictured Cliffs pitot gauge in report. (Gauge will be used for allocation formula in commingling approval.)
22. Retrieve RBP set @ \pm 2790'. TOOH. TIH w/ 3-7/8" bit on 2-3/8" 4.7# J-55 workstring and CO to RBP set @ +/- 4940'. TOOH. TIH w/ 3-7/8" bit on 2-3/8" 4.7# J-55 workstring and CO to PBTD (5130'). TOOH and stand back workstring.
23. RU wireline company. Run After Frac GR from +/- 4940' to top of tracer activity. RD wireline.
24. Perform squeeze procedure as needed to ensure TOC covers Ojo Alamo interval.
25. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, a seating nipple, then the remaining 2-3/8" production tubing. Land tubing near bottom Mesa Verde perforation (5026').
26. 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.

Approve: _____
Team Leader

Approve: _____
Drilling Superintendent

VENDORS:

Wireline:	Schlumberger	325-5006
Stimulation:	Dowell/Schlumberger	325-5096
Tracer Survey:	Protechnics	326-7133
Packer:	Baker Oil Tools	325-0216
Bridge Plug:	Baker Oil Tools	325-0216

Steve Campbell	Home 325-8218	Office 326-9546	Pager 564-1902
Bob Goodwin	Home 599-0992	Office 326-9713	Pager 564-7096
Jennifer Dobson	Home 564-3244	Office 326-9708	Pager 324-2461
Mike Pippin	Home 327-4573	Office 326-9848	Pager 324-2559

Florance B #1

Unit N, Sec. 20, T30N, R09W

Location: 790' FSL, 1650' FWL
San Juan County, NM

Latitude: 36-47.53'
Longitude: 107-48.38'

Current Field: Blanco PC/Mesaverde
Spud: 11/14/62
Elev GL: 6049'
TD: 5130'

Logs Run: GR-Ind.; Electric; Gammatron
Completed: 11/26/62
Elev KB:
PBTD:

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>
13-1/4"	9-5/8"	40#	S95	303'	230 sx	Surface (circ.)
8-3/4"	7"	20#	J-55	2909'	393 sx (2 stg)	Surface (circ.)

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>
6-1/4"	4-1/2"	10.5#	J-55 Liner	2860'-5130'	330 sx	Liner top

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>
2-1/16"	N/A	J-55 IJ	4984'	147		
1-1/4"	N/A	N/A	2706'	83		
					Baker Model D PKR DV Collar	2763' 2295'

FORMATION TOPS:

Ojo Alamo	1528'	Pictured Cliffs	2719'	Pt Lookout	4942'
Kirtland	1591'	Cliffhouse	4333'	Gallup	---
Fruitland	2370'	Menefee	4490'	Dakota	---

Completions:

Mesaverde

Perfs: 4366'-5026'

Frac'd w/59,000 gal water & 60,000# sand.

Pictured Cliffs

Perfs: 2726'-2734'

Frac'd w/59,000 gal water & 20,000# sand.

Cementing Information

9-5/8" csg: 230 sx reg. cmt, 1/4 c.f. Strata-Crete "6"/sx, & 2% HA-5.

7" csg: 85 sx 1:1 POZ mix & El Toro "35", 1/4 c.f. Strata-Crete "6"/sx & 1/8# Flocele/sx.

7" csg: 308 sx 1:1 POZ mix & El Toro "35", 1/4 c.f. Strata-Crete "6"/sx, 1/4 c.f. Flocele/sx.

4-1/2" csg: 330 sx reg. cmt., 4% gel, & .25# fine tuffplug.

Workover History:

2/09/95 Lowered MV tbg. PC tbg. was landed. (Assume same depth-Reports do not indicate new depth for PC

MEL:plh 9/10/97

FLORANCE B 1

BLANCO PICTURED CLIFFS/MESAVERDE

UNIT N, SEC 20, T30N, R9W, RIO ARRIBA, NM

NOTE: 1995
Workover-Lowered MV
Tubing. PC Tubing was
landed (Assume same
depth - Reports do not
indicate New Depth for PC
Tubing!

CURRENT

PROPOSED

