

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports on Wells

99 MAR 16 PM 1:04

1. Type of Well
GAS

070 FARMINGTON, NM

5. Lease Number
NM-077107A
6. If Indian, All. or
Tribe Name

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

RECEIVED
MAR 18 1999

7. Unit Agreement Name

3. Address & Phone No. of Operator

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

OIL CON. DIST.
DIST. 39

8. Well Name & Number
Hancock #5A
API Well No.
30-045-26374

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

1690' FNL, 1600' FWL, Sec. 27, T-28-N, R-9-W, NMPM

10. Field and Pool
Otero Cha/Blanco MV
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 pay to the existing Mesaverde formation of the subject well and recomplete in the Chacra formation according to the attached procedure and wellbore diagram. The Chacra will then be commingled with the existing Mesaverde formation. A down-hole commingle application will be filed.

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

Signed Duane W. Spencer (PMPOps) Title Regulatory Administrator Date 3/4/99

(This space for Federal or State Office use)

APPROVED BY /s/ Duane W. Spencer Title Team Lead, Petroleum Management

MAR 16 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.

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

Form C
Revised February 21,

Instructions on
Submit to Appropriate District Office
State Lease - 4 Co
Fee Lease - 3 Co

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

99 MAR 10 PM 1:04

☐ AMENDED REPORT

070 FARMINGTON, NM
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	'Pool Code	'Pool Name
30-045-26374	82329/72319	Otero Chacra/Blanco Mesaverde
'Property Code	'Property Name	'Well Number
7076	HANCOCK	5A
'OGRID No.	'Operator Name	'Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	6828'

10 Surface Location

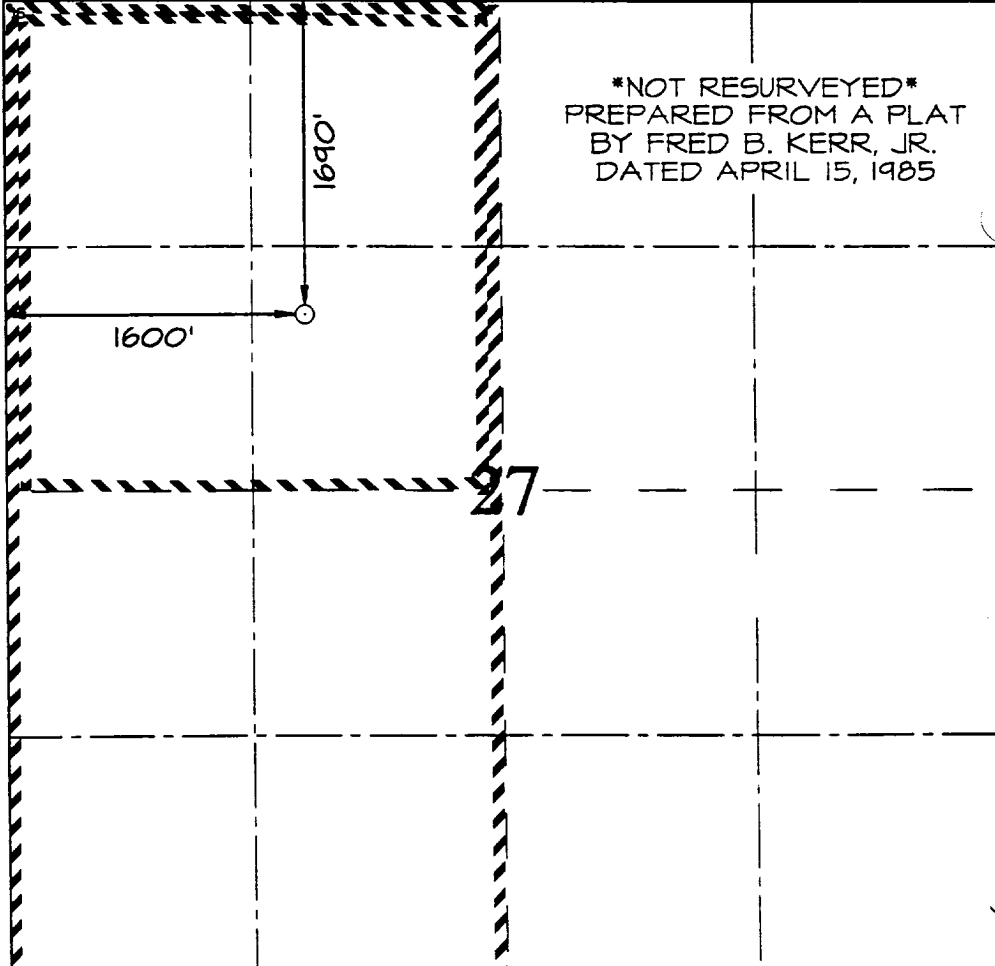


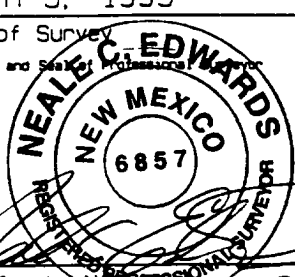
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	27	28N	9W		1690	NORTH	1600	WEST	SAN J

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.
Cha - 160 MV-W/320			

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

 <p>*NOT RESURVEYED* PREPARED FROM A PLAT BY FRED B. KERR, JR. DATED APRIL 15, 1985</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p> Signature Peggy Bradfield Printed Name Regulatory Administrator Title 3-8-99 Date</p> <p>18 SURVEYOR CERTIFICATION</p> <p>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 and correct to the best of my belief.</p> <p>MARCH 5, 1999 Date of Survey  Signature and Seal  Certificate Number 6857</p>
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dk@

HANCOCK #5A MV-CH
Workover Procedure
F 27 28 9
San Juan County, N.M.
Lat-Long: 36-38.14' - 107-46.74'

PROJECT SUMMARY: This is both a Menefee and a Chacra payadd in an existing 1985 vintage Mesaverde (Point Lookout only) well. The well will then be commingled between the Mesaverde and Chacra.

1. Comply to all NMOCD, BLM, and BROG rules and regulations. MOL and RU completion rig. NU BOP w/flow tee and stripping head. NU blooie line and 2-7/8" relief line.
2. Set blanking plug in S.N. of 2-3/8" tbg @ 5728' and test to 3000 psi. TOH w/2-3/8" tbg.
3. MI wireline. Set 4-1/2" drillable BP @ 5300'. Load hole w/1% KCL. TIH w/7" pkr on 2-3/8" tbg to 60' & pressure test csg and BP to 3000 psi. TOH.

MENEFEE:

4. Run CBL 5300' to top of cmt in 4-1/2" liner. TIH w/2-3/8" tbg open ended to 5200'. Spot 70 gal 15% HCL acid across proposed Menefee perms (5093'-5195'). TOH.
All acid on this well to contain the following additives per 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
5. Perf Menefee w/1 spf @ 5093', 94', 95', 96', 97', 98', 99', 5100', 01', 02', 35', 36', 37', 85', 86', 87', 88', 89', 90', 91', 92', 93', 94', 95'. Total 24 holes. Perf w/select fire HSC gun using HSC-3125-302T 10 gr Owen jets which should give a 0.29" hole and 16.64" of penetration in concrete.
6. Fill 10 - 400 bbl. frac tanks with 1% KCL water. If necessary, filter all water to 25 microns. Nine tanks are for fracing and one tank for breakdown water. Usable frac water required for frac is 3250 bbls.
7. TIH w/4-1/2" pkr on 2-3/8" tbg and set @ 5250'. Pressure test BP @ 5300' to 4550 psi. PU and reset pkr @ 4900'. W/ 500 psi on annulus, breakdown and attempt to balloff Menefee perms w/1500 gal 15% HCL acid and 60 RCN 7/8" 1.3 sp gr perf balls. Use same acid additives as in step #4. Max. pressure is 4550 psi. Lower pkr to 5200' to knock off perf balls. TOH.
8. TIH w/ 7" pkr on 2 jts 3-1/2" N-80 tbg and set @ 60' to protect wellhead. Frac Menefee down csg w/130,000 gals. of slick water and 100,000# 20/40 Arizona sand. Pump at 45 BPM. Sand to be tagged w/ 3 RA tracers. Max. pressure is 3000 psi and estimated treating pressure is 2850 psi. Treat per the following schedule:

<u>Stage</u>	<u>Water (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Pad	30,000	---
0.5 ppg	20,000	10,000
1.0 ppg	60,000	60,000
1.5 ppg	20,000	30,000
Flush	<u>(6,540)</u>	<u>0</u>
Totals	130,000	100,000#

If well is on vacuum near end of frac job, cut flush as necessary to avoid overflushing and slow rate during flush. Frac with the following additives per 1000 gal frac fluid.

- * 3/4 Gal - FR-30 (Friction Reducer)
- * 1.0 gal. Flowback 20 (Surfactant)
- * 0.38# - Fracide (Bactericide)

9. TOH w/3-1/2" tbg and pkr.

CHACRA:

10. TIH w/4-1/2" top drillable BP on 2-3/8" tbg and set @ 4300'. Close pipe rams and pressure test to 1500 psi. W/pipe @ 4230', spot 150 gal 15% HCL acid across Chacra perms 4011'-4228'. Use same acid additives as in step #4. TOH. TIH w/7" pkr on 2-3/8" tbg and set @ about 60'. Pressure test csg and BP to 3000 psi. TOH.
11. Perf Chacra w/1 spf @ 4011', 13', 15', 17', 35', 38', 41', 51', 67', 92', 4119', 25', 31', 39', 42', 45', 48', 51', 70', 83', 92', 4200', 15', 28'. Total 24 holes. Perf w/select fire HSC gun using HSC-3125-302T 10 gr Owen jets which should give a 0.29" hole and 16.64" of penetration in concrete.
12. Fill 3 - 400 bbl. frac tanks with 1% KCL water. If necessary, filter all water to 25 microns. Two tanks are for gel and one tank for breakdown water. Usable gel water required for frac is 376 bbls.
13. TIH w/4-1/2" pkr on 2-3/8" tbg and set @ 4250'. Pressure test BP @ 4300' to 4550 psi. PU and reset pkr @ 3800'. Breakdown and attempt to balloff Chacra perms w/1500 gal 15% HCL acid and 60 RCN 7/8" 1.3 sp gr perf balls. Use same acid additives as in step #4. Max. pressure is 4550 psi. Lower pkr to 4230' to knock off perf balls. TOH.
14. TIH w/7" pkr on 3-1/2" tbg and set @ 60' to protect wellhead. Frac Chacra down csg w/50,000 gals. of 70 quality foam using 20# gel as the base fluid and 100,000# 20/40 Arizona sand. Pump at 65 BPM. Monitor bottom hole and surface treating pressures, rate, foam quality, and sand concentration with computer van. Sand to be tagged w/ 3 RA isotope tracers. Max. pressure is 3000 psi and estimated treating pressure is 2900 psi. Pipe friction @ 65 BPM is 770 psi. Treat per the following schedule:

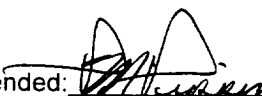
<u>Stage</u>	<u>Foam Vol. (Gals.)</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Pad	10,000	3,000	---
1.0 ppg	10,000	3,000	10,000
2.0 ppg	10,000	3,000	20,000
3.0 ppg	10,000	3,000	30,000
4.0 ppg	10,000	3,000	40,000
Flush	<u>(5,935)</u>	<u>(1,780)</u>	<u>0</u>
Totals	50,000	15,000	100,000#


HANCOCK #5A MV-CH – MESAVERDE AND CHACRA PAYADD AND COMMINGLE

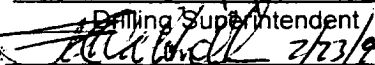
Treat frac fluid w/the following additives per 1000 gallons:

- * 20# J-48 (Guar Gel mix in full tank - 16,000 gal)
- * 1.0 gal. Aqua Flow (Non-ionic Surfactant mix in full tank)
- * 1.0# GVW-3 (Enzyme Breaker mix on fly)
- * 1.0# B - 5 (Breaker mix on fly)
- * 3.0 gal Fracfoam I (Foamer mix on fly)
- * 0.38# FracCide 20 (Bactericide mix on full tank)

15. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr. or less, if sand is observed. **Take pitot gauges when possible.** TOH w/pkr.
16. TIH w/notched collar on 2-3/8" tbg and C.O. Chacra to drillable BP @ 4300' w/air/mist. Monitor gas and water returns and **Take pitot gauges when possible.** When well is sufficiently clean (less than 1 BWPH), run Chacra production back-pressure test to 200 psi through a separator for 3 hrs and record gas, water, and oil production rates. TOH.
17. TIH w/3-7/8" bit on 2-3/8" tbg and drill BP @ 4300' w/air/mist and clean out Menefee to drillable BP @ 5300'. **Take pitot gauges when possible.** When well is sufficiently clean, drill BP @ 5300' and clean out Point Lookout to PBD5813'.
18. When wellbore is sufficiently clean (less than 1 BWPH), TOH. TIH w/1200' of 2-3/8" tbg below a 4-1/2" pkr on 2-3/8" tbg. Set tbg @ about 5500' and pkr @ about 4300'. Run MV production back-pressure test to 200 psi up tbg and through a separator for 3 hrs and record gas, water, and oil production rates. TOH.
19. Run after frac gamma-ray log from 5400'-4900' and 4400'-3900' and perf eff log across all perf intervals from 5700'-3900'.
20. TIH and rabbit 2-3/8" 4.7# J-55 tbg w/standard seating nipple one joint off bottom and again cleanout to 5813'. When wellbore is sufficiently clean, land tbg @ 5400 KB. **Take final water and gas rates.**
21. ND BOP and NU wellhead and tree. Rig down and release rig. Complete well as commingled Mesaverde – Chacra.

Recommended:  2/23/29
Production Engineer

Approve:  2/23/29
Drilling Superintendent

Approve:  2/23/29
Team Leader

VENDORS:

Wireline	Basin	327-5244
Fracturing:	Howco	325-3575
RA Tag:	Pro-Technics	326-7133
Pkrs	Schlum.	325-5006

PMP

HANCOCK #5A MV-CH

UNIT F SECTION 27 T28N R9W
SAN JUAN COUNTY, NEW MEXICO

