

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
PLM

Sundry Notices and Reports on Wells

50 FEB 24 PM 1:05

1. Type of Well  
GAS

C.O. FARMINGTON, NM

5. Lease Number  
SF-078050

6. If Indian, All. or  
Tribe Name

2. Name of Operator

**BURLINGTON  
RESOURCES**

OIL & GAS COMPANY

7. Unit Agreement Name

3. Address & Phone No. of Operator

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

8. Well Name & Number

Turner Hughes #15A

9. API Well No.

30-045-26381

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

1490' FSL, 920' FEL, Sec. 3, T-27-N, R-9-W, NMPM

10. Field and Pool

Otero Chacra/  
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

Type of Action

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☒ Recompletion

☐ New Construction

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Final Abandonment

☐ Altering Casing

☐ Conversion to Injection

☒ Other - Commingle

13. Describe Proposed or Completed Operations

It is intended to recomplate the subject well in the Chacra formation according to the attached procedure and wellbore diagram. The well will then be commingled with the existing Mesaverde formation. A down hole commingle order will be applied for.

RECEIVED

MAR - 4 1998

OIL CON. DIV.  
DIST. 3

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

Signed [Signature] (PMPOps) Title Regulatory Administrator Date 2/23/98

(This space for Federal or State Office use)

APPROVED BY R/Deane W. Spencer Title \_\_\_\_\_ Date MAR - 4 1998

CONDITION OF APPROVAL, if any:

NMOC

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, 1995  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

50 FEB 24 PM 1:05 ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-26381		*Pool Code 82329/72319	*Pool Name Otero Chacra/Blanco Mesaverde
*Property Code 7614	*Property Name TURNER HUGHES		*Well Number 15A
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 6350'

<sup>10</sup> Surface Location

UL or lot no. I	Section 3	Township 27N	Range 9W	Lot Idn	Feet from the 1490	North/South line SOUTH	Feet from the 920	East/West line EAST	County SAN JUAN
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<sup>11</sup> 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
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<sup>12</sup> Dedicated Acres Cha-150.85 MV-E/293.97	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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

<sup>16</sup>  
Not resurveyed, prepared  
from a plat dated 4-29-85  
by Fred B. Kerr, Jr.

RECEIVED  
MAR - 4 1998  
OIL CON. DIV.  
BKM:s

<sup>17</sup> 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 Administrator

Title

2-23-98

Date

<sup>18</sup> SURVEYOR CERTIFICATION

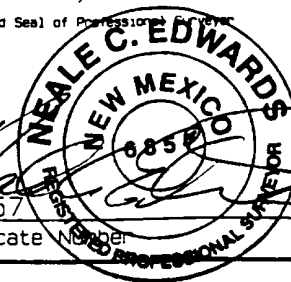
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 18, 1998

Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number



TURNER HUGHES #15A CH-MV  
Workover Procedure  
I 3 27 9  
San Juan County, N.M.  
Lat-Long: 36-36.05 - 107-46.13

**PROJECT SUMMARY:** Open the Chacra in this 1985 vintage MV well and commingle.

1. Comply to all NMOCD, BLM, and BROG rules and regulations. MOL and RU completion rig. NU 7-1/16" 3000 psi 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 @ 5089' and test to 3000 psi. TOH w/2-3/8" tbg. TIH w/4-1/2" csg scraper on 2-3/8" tbg. Run to 3700'. TOH.
3. MI Wireline. Set 4-1/2" RBP @ 3700' and top w/1 sx sand. Load hole w/1% KCL water. Run CBL 3700' to liner top @ 2561' and in 7" csg to surface and correlate to attached open hole log. Pressure to 1000 psi during CBL, if necessary. Hot shot log to Mike Pippin (326-9848). TIH w/7" pkr on 3-1/2" 9.3# N-80 tbg and set @ 1000' to protect wellhead and 7" csg above top of cmt. **Note:** Make sure pkr is set below top of cmt behind 7" csg. Pressure test csg to 3000 psi. TOH.
4. TIH w/2-3/8" tbg to 3574' and spot 150 gal 15% HCL acid across Chacra (3574'-3346').  
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 Chacra from top down w/1 spf @ 3346', 62', 64', 66', 80', 96', 98', 3410', 18', 31', 47', 56', 68', 78', 95', 3502', 13', 24', 26', 32', 34', 36', 49', 67', 74'. Total 25 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. TIH w/4-1/2" pkr on 2-3/8" tbg and set @ 3100'. W/ 500 psi on the annulus, 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 Step #4. Max. pressure is 4700 psi. Lower pkr to 3580' to knock off perf balls. TOH.
7. Spot and fill 3-400 bbl. frac tanks w/2% KCL water. If necessary, filter all water to 25 microns. Two tanks are for gel and one tank is for breakdown water. Usable water required for frac is 468 bbls.
8. TIH w/ 7" pkr on 3-1/2" 9.3# N-80 rental frac string and set @ 1000'. **Note:** Make sure pkr is set below the top of cement in the 7" csg. W/500 psi on annulus, frac Chacra down frac string and csg w/62,000 gals. of 70 quality foam using 30# gel as the base fluid and 120,000# 20/40 Arizona sand. Pump at 50 BPM. Monitor bottomhole 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 2500 psi. Pipe friction @ 50 BPM is 1137 psi. Treat per the following schedule:

<u>Stage</u>	<u>Foam Vol.</u> <u>(Gals.)</u>	<u>Gel Vol.</u> <u>(Gals.)</u>	<u>Sand Vol.</u> <u>(lbs.)</u>
Pad	12,000	3,600	—
1.0 ppg	10,000	3,000	10,000
2.0 ppg	20,000	6,000	40,000
3.0 ppg	10,000	3,000	30,000
4.0 ppg	10,000	3,000	40,000
Flush	<u>( 3,488)</u>	<u>(1046)</u>	<u>0</u>
Totals	62,000	18,600	120,000#

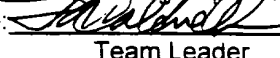
Treat frac fluid w/the following additives per 1000 gallons:

- \* 30# 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# GVV-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 (Bacteriacide mix on full tank)

9. 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.
10. TIH w/retrieving tool on 2-3/8" tbg and C.O. Chacra w/air/mist to ret BP @ 3700'. Take pitot gauges when possible.
11. When wellbore is sufficiently clean. retrieve BP @ 3700' and TOH.
12. TIH w/3-7/8" bit on 2-3/8" tbg and C.O. to PBTD5127' w/air/mist. Take pitot gauges when possible. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 3800'-3200' and Perf Eff. Log for all MV and Chacra intervals from 5137' to 3300'.
13. TIH w/2-3/8" tbg w/standard seating nipple one joint off bottom and again cleanout to 5127'. Use expendable check if necessary. When wellbore is sufficiently clean. land tbg @ 5000' KB. Take final water and gas rates.
14. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended:  12/18/97  
Production Engineer

Approve:  12/18/97  
Drilling Superintendent

Approve:  12/18/97  
Team Leader

#### VENDORS:

Wireline	Basin	327-5244
Fracturing:	Howco	325-3575
RA Tag:	Pro-Technics	326-7133
Pkr and Ret BP	Schlum.	325-5096

PMP

**Pertinent Data Sheet - TURNER HUGHES #15A CHACRA**

**Location:** 1490' FSL & 920' FEL. Unit I, Section 3, T27N, R9W. San Juan County, New Mexico

**Field:** Blanco Mesaverde  
Harris Mesa Chacra

**Elevation:** 6349' GL  
13' KB

**TD:** 5169'  
**PBTD:** 5127'

**Completed:** 10/4/85

**Spud Date:** 7/7/85

**DP #:** MV=54058A  
CH=54058B

**LEASE:** Fed: SF 078050

**GWl:** 100%

**NRI:** 75.00%

**Prop#:** 012633000

**Initial Potential:** SICP=612 PSI

**Casing Record:**

<u>Hole Size</u>	<u>Csq Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cmt Top</u>
12-1/4"	9-5/8"	32.3# H-40	229'	142 cf	Circ Cmt
8-3/4"	7"	20.0# J-55	2753'	379 cf	950' - Survey
6-1/4"	4-1/2" liner	10.5# J-55	2561'-5169'	512 cf	Circ Cmt @ 52% Eff.

**Tubing Record:**

<u>Tbg. Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	
2-3/8"	4.70# J-55 EUE	5123'	159 Jts
	S.N. @ 5089'		

**Formation Tops:**

Chacra	3342'
Mesaverde	4032'
Menefee:	4080'
Point Lookout:	4692'

**Logging Record:** Induction, Density Neutron, Temp

**Stimulation:** Perf Lower Point Lookout w/1 spf @ 4961', 96', 5004', 22', 40', 58', 76', 5122', 37'. Total 9 holes. Fraced w/43,000# sand in slick water. Perfed Point Lookout w/1 spf @ 4714', 18', 24', 29', 32', 36', 40', 47', 64', 68', 72', 83', 87', 90', 4820', 34', 44', 56', 82', 4903', 20'. Total 21 holes. Fraced w/81,000# sand in slick water.

**Workover History:** NONE

**Production History:** 1st delivered 10/29/85. Current MV capacity is 60 MCF/D. Cum is 252 MMCF & 1852 BO. Line pressure is 120 psi.

**Pipeline:** EPNG

# TURNER HUGHES #15A CH-MV

UNIT I SECTION 3 T27N R9W  
SAN JUAN COUNTY, NEW MEXICO

