

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

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

1575' FNL, 1190' FWL, Sec.3, T-27-N, R-9-W, NMPM, San Juan County

API # (assigned by OCD)
30-045-26533

5. Lease Number

SF-078050

6. State Oil&Gas Lease #

7. Lease Name/Unit Name

Hughes

8. Well No.

10A

9. Pool Name or Wildcat

Otero Cha/Blanco MV

10. Elevation:

Type of Submission

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other - 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 commingle the subject well in the Otero Chacra (Pool Code 82329) and the Blanco Mesaverde (Pool Code 72319). The production will be commingled according to Oil Conservation Division Order Number 11363. Allocation and methodology will be provided after the work is completed. Commingling will not reduce the value of the production. The Bureau of Land Management has been notified in writing of this application.

Interest is common. No notification is required.

SIGNATURE

Reggie Cole

Regulatory Supervisor May 31, 2001

no

(This space for State Use)

Original Signed by STEVEN M. HAYDEN

DEPUTY OIL & GAS INSPECTOR, DIST. 2

JUN -4 2001

Approved by

Title

Date

D17L 417A2

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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1575' FNL, 1190' FWL, Sec.3, T-27-N, R-9-W, NMPM</p> | <p>5. Lease Number
SF-078050</p> <p>6. If Indian, All. or Tribe Name</p> <p>7. Unit Agreement Name</p>

<p>8. Well Name & Number
Hughes #10A</p> <p>9. API Well No.
30-045-26533</p> <p>10. Field and Pool
Otero Chacra/
Blanco Mesaverde</p> <p>11. County and State
San Juan Co, NM</p> |
|--|---|

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

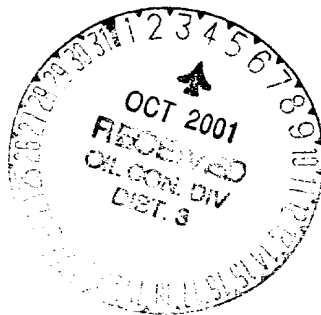
Type of Submission

Type of Action

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment | <input type="checkbox"/> Change of Plans |
| <input type="checkbox"/> Subsequent Report | <input checked="" type="checkbox"/> Recompletion | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Plugging Back | <input type="checkbox"/> Non-Routine Fracturing |
| | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Water Shut off |
| | <input type="checkbox"/> Altering Casing | <input type="checkbox"/> Conversion to Injection |
| | <input checked="" type="checkbox"/> Other - commingle | |

13. Describe Proposed or Completed Operations

It is intended to recomplete the subject well to the Chacra formation according to the attached procedure. The Mesaverde and Chacra formations will be commingled.



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

Signed [Signature] Title Regulatory Supervisor Date 8/20/01

TLW

(This space for Federal or State Office use)

APPROVED BY /s/ Jim Lovato Title _____ Date _____

CONDITION OF APPROVAL, if any:

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

NMOOD

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-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-26533	² Pool Code 82329/72319	³ Pool Name Otero Chacra/Blanco Mesaverde
⁴ Property Code 7143	⁵ Property Name Hughes	⁶ Well Number 10A
⁷ OGRID No. 14538	⁸ Operator Name Burlington Resources Oil & Gas Company	⁹ Elevation 6848' GR

¹⁰ Surface Location

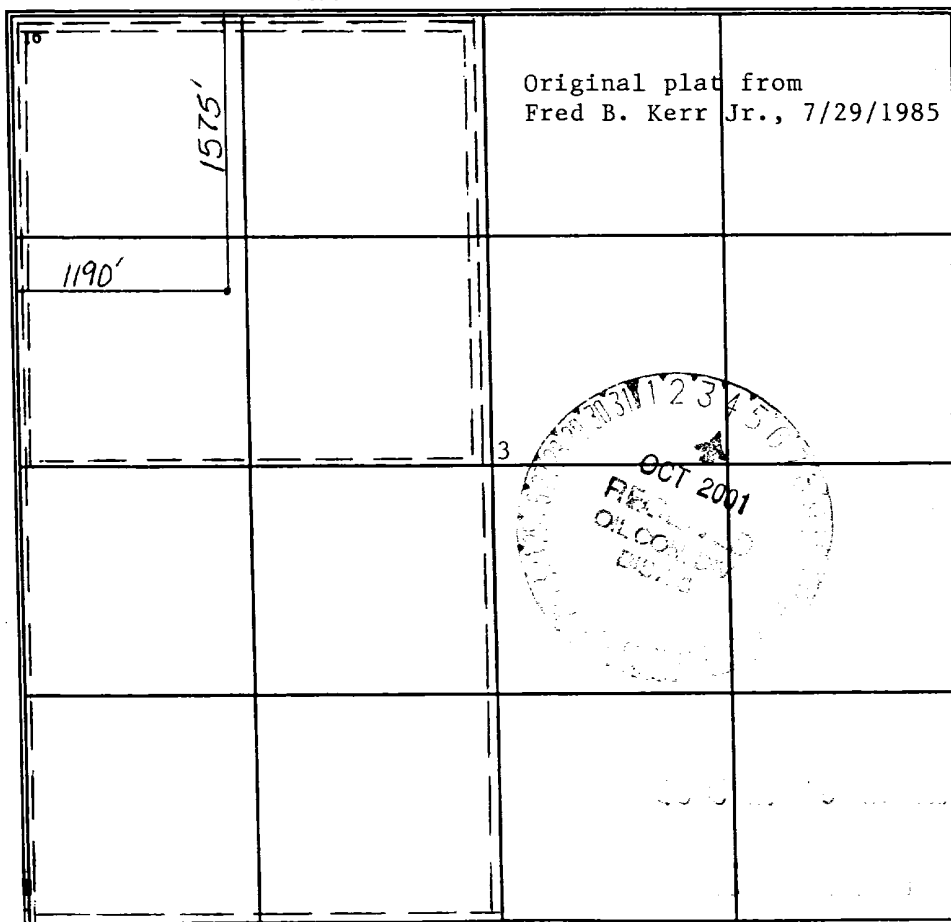
UL or lot no. D	Section 3	Township 27N	Range 9W	Lot Ida	Feet from the 1575	North/South line North	Feet from the 1190	East/West line West	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres Cha: NW/142.28 MV: W/291.38	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i> Signature: <u>Peggy Cole</u> Printed Name: <u>Peggy Cole</u> Title: <u>Regulatory Supervisor</u> Date: <u>8-21-01</u>
	¹⁸ SURVEYOR CERTIFICATION <i>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.</i> Date of Survey: Signature and Seal of Professional Surveyer: Certificate Number:

HUGHES #10A

Single-Stage Chacra Recompletion

1575' FNL, 1190' FWL

Unit E, Section 03, T027N, R009W

San Juan County, New Mexico

Latitude: 36 DEG, 36.39'

Longitude: 107 DEG, 46.64'

Summary:

Chacra pay is going to be added to the existing Point Lookout production. The Chacra will be hydraulically fracture stimulated in one stage with 200,000# 20/40 sand and a 75 quality, N₂ foamed, 20# linear gel. Foam is used to limit the fluid damage to the Chacra by reducing liquid volumes and by aiding in the liquid recovery during the flowback.

- COMPLY WITH ALL NMOCD, BLM, AND BR REGULATIONS.
- CONDUCT DAILY SAFETY MEETINGS FOR ALL PERSONNEL ON LOCATION.
- PLACE FIRE SAFETY EQUIPMENT IN STRATEGIC LOCATIONS.
- INSPECT LOCATION AND WELLHEAD, AND INSTALL RIG ANCHORS PRIOR TO RIG MOVE.
- DIG FLOWBACK PIT OR SET FLOWBACK TANK.
- SET AND FILL 4 400-BBL FRAC TANKS WITH 2% KCl WATER. TEST AND FILTER IF NECESSARY.

Equipment Needed:

- | | |
|---|--|
| 4 -- 400-bbl frac tanks with 2% KCl water | 1 -- 4-1/2" RBP |
| 1 -- 4-1/2" CIBP | 1 -- 4-1/2" retrievable packer with bypass |

PROCEDURE:

1. MIRU. Record and report SI pressures on tubing, casing, and bradenhead. Lay blowdown line and blow well down. Kill well with 2% KCl water. ND WH, NU BOP. Test and record operation of rams. NU blooie line and 2-7/8" relief line. Redress production wellhead as needed.
2. **NOTE: THIS WELL HAS A PLUNGER-LIFT SYSTEM.** 170 jts 2-3/8", 4.7#, J-55 tubing set at 5613'. PU additional joints of tubing and tag bottom, recording the depth. PBTD should be at +/- 5659'. TOOH with 2-3/8" tubing and stand back. Visually inspect tubing and replace bad joints as necessary. Check tubing for scale, and notify Production Engineer and Drilling Manager if it is present.
3. PU and TIH with 4-1/2" CIBP on 2-3/8" tubing. Set CIBP at 5207'. Load hole with 2% KCl water and spot 15 bbls of 15% HCl* from 4392' to above the top perf. Pressure test the casing and CIBP to 1000 psig. TOOH with tubing and stand back.

***NOTE: ALL ACID TO CONTAIN THE FOLLOWING ADDITIVES PER 1000 GAL:**

1000 gal	15%	Hydrochloric acid
2 gal		Corrosion inhibitor
2 gal		Surfactant
4. RU wireline. Run GR-CBL-CCL with 1000 psig from 5207' to 3111' (top of 4-1/2" liner) and correlate to attached 2" Induction log. Contact Production Engineer and Drilling Manager to evaluate CBL and decide course of action. Pressure test the casing and CIBP to 3000 psig.
5. Perforate the Chacra interval with 3-1/8" Select-Fire guns loaded with HSC-3125-306T charges (12 gram, 0.3" perf diameter, 17.48" penetration). Shoot 60 holes 1 shot every 2' from the top down in 15% HCl* at the following depths and then RD wireline:

3534-42', 3674-82', 3762-70', 3880-88', 3910-18', 4022-30', 4036-44', 4075-88', 4156-64', 4197-4205', 4265-73', 4334-42'
6. PU and TIH with 4-1/2" RBP, on/off tool, and 4-1/2" packer on 2-3/8" tubing. Set RBP at the first RBP Setting Depth listed in the table below. PUH +/- 10 ft and set packer. RU stimulation company and pressure test surface lines to 6262 psig. Pressure test RBP to 3000 psig. Release packer, and reset packer at the first Packer Setting Depth listed in the table below. Open the packer bypass and circulate the amount of 15% HCl* listed in the table below to the bypass depth. **NOTE: BY CIRCULATING THE ACID TO DEPTH WE MINIMIZE THE AMOUNT OF WATER PUMPED INTO THE CHACRA.** Close the packer bypass. Breakdown perforations and

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attempt to establish an injection rate of 6 bpm. Max breakdown pressures for various rates are listed in the 2nd table below (70% burst of 2-3/8" tubing). Pump acid into the perfs and then SD the pumps. Release packer and RBP. Repeat breakdown procedure for remaining intervals, and when finished, TOO with RBP and packer.

RBP Setting Depth	Packer Setting Depth	Perforation Interval	Acid Volume (gals)
4382'	4304'	4334-42'	167
4304'	4304' 4181'	4197-4205', 4265-73'	333
4304' 4181'	4060'	4075-88', 4156-64'	333
4060'	3992'	4022-30', 4036-44'	333
3948'	3850'	3880-88', 3910-18'	333
3800'	3732'	3762-70'	167
3712'	3644'	3674-82'	167
3572'	3504'	3534-42'	167

Rate (bpm)	Max Pressure (psig)
0	3000
2	3180
4	4001
5	4579
6	5262

7. Install WH isolation tool. RU stimulation company and pressure test surface lines to **4000** psig. RU ProTechnics and **tag sand with 3 radioactive tracers**. Fracture stimulate the Chacra at a constant downhole rate of **40** bpm with 75 quality N₂ foamed 20# linear gel and 200,000# 20/40 sand according to the attached frac schedule. Flush to 100' above the top perf with 75 quality N₂ foam. **NOTE: THE MAX TREATING PRESSURE IS 3000 PSIG.**
8. Record ISIP, 5, 10, and 15-minute shut-in pressures. Shut-in frac valve. RD ProTechnics. RD stimulation company and install flowback line above frac valve. Lay flowback line to dual-choke manifold and pit. Open well to pit in accordance with the flowback schedule listed in the table below. **NOTE: DO NOT SHUT WELL IN DURING FLOWBACK.** When schedule dictates a larger choke size, open ball valve upstream of adjustable choke and open adjustable choke on manifold to appropriate size from table and begin flowing through the adjustable choke. Close ball valve upstream of positive flow bean and change out flow bean to next larger size in table. Open ball valve upstream of positive flow bean and begin flowing. Close ball valve upstream of adjustable choke and close adjustable choke. **NOTE: FOLLOW THIS SCHEDULE TO UTILIZE A 24-HOUR FLOWBACK. IF WELL BEGINS TO SLUG OR MAKE LARGE AMOUNTS OF SAND TO SURFACE, DROP TO NEXT SMALLER CHOKE SIZE. IF WELL BEGINS TO TAPER OFF IN LIQUID PRODUCTION AND FLOW MOSTLY N₂, CHANGE TO NEXT LARGER CHOKE SIZE BEFORE TIME SCHEDULE DICTATES**

10/64" Choke	Approximately 2 hrs.
12/64" Choke	Approximately 2 hrs.
14/64" Choke	Approximately 2 hrs.
16/64" Choke	Approximately 3 hrs.
18/64" Choke	Approximately 3 hrs.
20/64" Choke	Approximately 3 hrs.
22/64" Choke	Approximately 3 hrs.
24/64" Choke	Approximately 3 hrs.
32/64" Choke	Approximately 3 hrs.

9. ND WH isolation tool. PU and TIH with 3-7/8" mill on 2-3/8", 4.7#, J-55 tubing and CO to CIBP at **5207'**

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with air/mist. When the well is sufficiently clean, gauge the Chacra interval for 1 hour, recording results every 15 minutes. A quickly dropping pitot gauge (unstable) over the 60 minutes may indicate liquid loading, and that further time should be spent cleaning up the Chacra interval. Further cleanup should be discussed with the Production Engineer and Drilling Manager. Drill out the CIBP with air/mist. **NOTE: WHEN MILLING, MIST RATE MUST NOT BE LESS THAN 12 BPH.**

10. CO to PBTB at 5659'. TOOH and LD mill.
11. TIH with an expendable check, a 1.78" ID seating nipple, one joint of 2-3/8", 4.7#, J-55 tubing, one 2' pup joint, and then half of the 2-3/8" production tubing. Run a broach on sandline to ensure that the tubing is clear. TIH with remaining 2-3/8" tubing. Replace any bad joints. CO to PBTB with air/mist.
12. PU above the top Chacra perf at 3534' and flow the well naturally, making short trips for cleanup when necessary. Discuss sand production with Production Engineer and Drilling Manager to determine when cleanup is sufficient.
13. Land tubing at 5567'. Broach the upper half of the production tubing. ND BOP and NU tree. Pump off expendable check. If well will not flow on its own, make swab run to seating nipple with rig's sandline. **NOTE: DURING CLEANOUT OPERATIONS THE RESERVOIR MAY BE CHARGED WITH AIR. AS A RESULT OF EXCESS OXYGEN LEVELS THAT MAY BE IN THE RESERVOIR AND/OR WELLBORE, CONTACT THE LEASE OPERATOR TO DISCUSS THE NEED FOR DETERMINING OXYGEN LEVELS PRIOR TO RETURNING THE WELL TO PRODUCTION.** SI well. RD and MOL. Return well to production.
14. RU ProTechnics. Run Spectral GR tool across the Chacra from 4492' to 3384' RD ProTechnics.

Recommend: Y. Yom Yovel 8/13/01
Production Engineer

Approve: Bruce D. Doug 8-14-01
Drilling Manager

Approved: W.S. J. L. 8/14/01
Lewis Team Supervisor

Approve: Debbie Cole 8-15-01
Regulatory

air dry needed

Production Engineer: Tom Loveland
Production Foreman: Darren Randall
Specialist: Johnny Cole
Lease Operator: Joe Golding

Office: 326-9771
Office: 326-9808

Pager: 326-8698
Pager: 324-7335
Pager: 326-8349
Pager: 324-7824

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Mobile: 320-2521
Mobile: 320-1595