

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

CONFIDENTIAL

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

1540' FSL, 935' FEL, Sec. 8, T-31-N, R-10-W, NMPM

5. Lease Number
SF-078604

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Marcotte #2

9. API Well No.
30-045-29466

10. Field and Pool
Wildcat Morrison

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 -

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to recomplate the subject well to the Morrison formation according to the attached procedure and wellbore diagram.

RECEIVED
MAR 16 1998

OIL CON. DIV.
DIST. 3

070 FARMINGTON, NM

93 FEB 26 PM 1:03

RECEIVED
BLM

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

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

(This space for Federal or State Office use)

APPROVED BY [Signature] Title Team Lead Date MAR 10 1998

CONDITION OF APPROVAL, if any:

OPERATOR

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

RECEIVED

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

Form C-102

Revised February 21, 1994

Instructions on back

070 FARMINGTON, NM

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-045-29466		Wildcat Morrison
Property Code	Property Name	Well Number
7287	Marcotte	2
OGRID No.	Operator Name	Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	5987'

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
I	8	31-N	10-W		1540	South	935	East	S.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.
160			

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

16	RECEIVED MAR 16 1998 OIL CON. DIV. DIST. 3				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief CONFIDENTIAL Signature Peggy Bradfield Printed Name Regulatory Administrator Title 2-23-98 Date			
	8	SF - 078604	2	1	18 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. 2/16/97 Date of Survey Signature and Seal of Professional Surveyor NEALE C. EDWARDS NEW MEXICO 6857 6857 Certificate Number			
	3	4	1540'	5				

Marcotte #2
Morrison Formation Test Procedure
O 08 T31N R10W
San Juan County, NM
Latitude: 36 Deg., 54.60 Min.
Longitude: 107 Deg., 54.00 Min.

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Summary:

The subject well is a 1998 Morrison Formation test in 9-5/8" and 7" casing. This well was originally drilled in 1997 as a wildcat venture in the San Juan Basin to prove the commerciality of the Pennsylvanian Formation. The test proved unsuccessful and a CIBP was set in the 7" casing to cover the Pennsylvanian interval. During logging operations, the Morrison interval was deemed to be a zone of interest. The Morrison interval will be stimulated with extreme overbalance perforating techniques and tested to determine if the zone is commercial. If the subject well proves to be productive, a three to six month test will be performed. A further evaluation will be performed on the Dakota interval and if successful will be added to the Morrison interval and commingled. If the test proves unsuccessful, a cement retainer will be run and the Morrison interval subsequently squeezed.

- Comply to all NMOCD, BLM and BR regulations. Conduct daily safety meetings for all personnel on location. Notify BR regulatory (Peggy Bradfield 326-9727) and the appropriate Regulatory Agency prior to pumping any cement job and after CBL is run. 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.
3. 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 one (1) 400 BBL frac tank and fill w/ 2% KCL. ND wellhead and NU 11" 5M BOP, stripping head and blooie line. Test BOP. Load hole w/ 251 bbl. 2% KCL.
3. RU Schlumberger. RU extreme overbalance perforating gun system. Load 4-1/2" HSD perforating gun w/ 51B HJ II, RDX 37 gram charges. Load gun w/ 2 SPF over a twelve (12) foot interval (total of 24 charges). This provides a 0.46" entrance hole and 34.58" penetration through casing and cement. **Pre-set trigger charge timer on gun system to fire in 10 min. after gun is activated.**
3. RIH w/ 4-1/2" HSD guns, safety spacer, firing head, automatic production valve, 7" packer, a radioactive marker sub and approximately 248 jts. **2-7/8" 6.5# L-80 EUE 8rd workstring.**** (See attached schematic of string component).

****NOTE:** Alert rig crew to ensure slips on rig are compatible with the 2-7/8" 6.5# L-80 workstring. Radioactive marker sub is used to ensure extreme overbalance perforating gun system is on depth with logs.

4. Set pkr. @ +/- 7541' to ensure guns will perforate the Morrison interval from 7561'-7573'. RU stimulation company. Hold pre-job safety meeting. Pressure test surface lines to 8000 psi. Load tbg. w/ 2.5 bbl. 15% HCL acid (500').** Pump N₂ down 2-7/8" workstring until pressure reaches 7000 psi and hold. This will trigger charge timer on extreme overbalance perforating gun system to fire guns in 10 min.

**** 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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5. When pressure in 2-7/8" workstring drops to **500** psi., pump 5000# 20/40 sand, 10,000 scf N₂ and 38.5 bbl. 2% KCL @ **5000** psi. RD stimulation company.
6.5" L-80 EUE
6. Begin flowing well back to pit at surface. When pressures allow, release pkr. and POOH w/ 248 jts. 2-7/8" ~~8.6# N-80 BUTTRESS~~ workstring, radioactive marker sub, 7" packer, automatic production valve, firing head, safety spacer and 4-1/2" HSD gun system and laydown.** ND BOP and NU wellhead. RD completion rig and move off.

****NOTE:** If well does not produce, proceed to step #8. If well does produce, land 2-7/8" 6.5# L-80 EUE 8rd tubing to 7561' and proceed to step #7 and omit step #8.
7. Set test separator and lay flowline to gas sales line. Flow well w/ **150** psi backpressure into gas sales line and at controlled rate. Team members will determine length of test.
8. RU wireline unit. RIH w/ 7" CIBP and set @ 7710'. Pump 5 sx. Class "B" neat cmt. on CIBP. RD wireline unit. RD completion rig and move off.

Approve: *Donald E. Fink* 2/13/98
Team Leader

Approve: *P. J. B. A.* 2/13/98
Drilling Superintendent

Recommend: *Steve Campbell* 2/13/98
Production Engineer

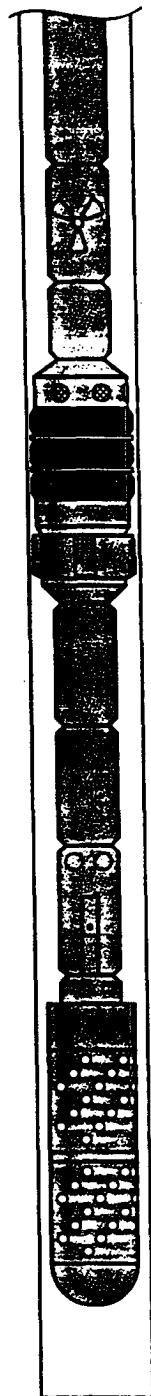
VENDORS:

Wireline:	Schlumberger	325-5006
Stimulation:	Dowell/Schlumberger	325-5096

Steve Campbell	Home 325-8218	Office 326-9546	Pager 564-1902
Craig McCracken	Home 327-7172	Office 326-9706	

Temporary completion: Extreme overbalance perforating

This string incorporates a production valve that stays closed until the guns fire. This allows the tubing to be pressured up to the extreme overbalance, protecting the casing. The instant the guns fire, the valve opens, allowing the pressure to reach the perforations.



String Component	Method of Actuation	Purpose of Component																		
Radioactive marker sub		Allows depth control																		
Packer	Mechanical or hydraulic	Seals, supports string, provides hold-down																		
Automatic production valve	Opens instant guns fire	Seals tubing string until open																		
Firing head																				
	<table><tr><th>Drop Bar</th><th>Absolute Pressure</th><th>Absolute Pressure No Time Delay</th><th>Trigger Chg. Jar/Drop Bar</th><th>Trigger Chg. Abs. Press.</th><th>Trigger Chg. Timer</th></tr><tr><td>BHF</td><td>HDF</td><td>EOF</td><td>TCF-JD/DB</td><td>TCF-HD</td><td>TCF-T</td></tr><tr><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr></table>	Drop Bar	Absolute Pressure	Absolute Pressure No Time Delay	Trigger Chg. Jar/Drop Bar	Trigger Chg. Abs. Press.	Trigger Chg. Timer	BHF	HDF	EOF	TCF-JD/DB	TCF-HD	TCF-T	X	X	X	X	X	X	
Drop Bar	Absolute Pressure	Absolute Pressure No Time Delay	Trigger Chg. Jar/Drop Bar	Trigger Chg. Abs. Press.	Trigger Chg. Timer															
BHF	HDF	EOF	TCF-JD/DB	TCF-HD	TCF-T															
X	X	X	X	X	X															
Safety spacer		Safety at surface																		
HSD guns																				

Marcotte #2
Pertinent Data Sheet

Location: 1540' FSL & 935' FEL, Unit O, Section 08, T31N, R10W, San Juan County, New Mexico

Latitude: 36°-54.60' **Longitude:** 107°-54.0'

Field: Wildcat **Elevation:** 5987' GL
6000' KB **TD:** 14020'
PBTD: 13847'

Spud Date: 6/25/97 **Compl Date:** Pending **Lease:** SF-078604
Prop#: 7287
API#: 30-045-29466

Initial Potential: Pending

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
48"	36"	Conductor	73'	230 sx.	Circ Cmt
26"	20"	24# H-40	490'	1300 sx.	Circ. Cmt
17-1/2"	13-3/8"	68# J-55 BT&C	3101'	2890 sx.	Circ. Cmt
12-1/4"	9-5/8"	106 jts. 43.5# L-80	5200'		
	9-5/8"	56 jts. 47# L-80	7261'	1665 sx.	Circ. Cmt
8-1/2"	7"	26# Liner J-55	7090'-13484'	1515 sx.	Liner Top
6-1/8"	5"	18# Liner P-110	13,362'-14,019'	160 sx.	Liner Top

Formation Tops:

Ojo Alamo:	1080'	Bluff:	8220'
Kirtland Shale:	1220'	Summerville SH:	8375'
Fruitland:	2330'	Entrada SS:	8500'
Pictured Cliffs:	2765'	Chinle:	9050'
Lewis Shale:	2935'	Dechelly SS:	9950'
Cliffhouse:	4480'	Cutler:	10,050'
Point Lookout:	4995'	Rico:	11,400'
Mancos:	5325'	Honaker Trail:	11,700'
Niobrara:	6370'	Paradox:	12,600'
Greenhorn LS:	7255'	Desert Creek:	12,800'
Graneros SH:	7365'	Akah:	12,950'
Dakota SS:	7485'	Barker Creek:	13,200'
Morrison:	7558'	Alkali Gulch:	13,450'
		Molas:	13,900'
		Leadville:	14,050'
		Ouray:	14,150'
		Granite:	14,200'

Logging Record: From Dakota to TD: AIT, SP, GR, Micro, NPHI, DPHI, Cal, RHOB, PE, Dipole Sonic

Workover History: 10/1/97 – set CIBP @ 13,880'. Pumped 5 sx. Class "G" cmt. W/ 2% SCR-100. New PBTD @ 13,847'

Pipeline: EPNG

Marcotte #2

Unit O, Section 08, T31N, R10W
San Juan County, NM

REVISION

Current Schematic

Proposed Schematic

