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

5. **Lease Number**
SF-078604

6. **If Indian, All. or Tribe Name**

7. **Unit Agreement Name**

2. **Name of Operator**
BURLINGTON RESOURCES **OIL & GAS COMPANY**

3. **Address & Phone No. of Operator**
PO Box 4289, Farmington, NM 87499 (505) 326-9700

8. **Well Name & Number**
Marcotte #2

9. **API Well No.**
30-045-29466

4. **Location of Well, Footage, Sec., T, R, M**
1540'FSL, 935'FEL, Sec.8, T-31-N, R-10-W, NMPM

10. **Field and Pool**
Basin Dakota

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		
_X_ Notice of Intent	___ Abandonment	___ Change of Plans	
	_X_ Recompletion	___ New Construction	
___ Subsequent Report	___ Plugging Back	___ Non-Routine Fracturing	
	___ Casing Repair	___ Water Shut off	
___ Final Abandonment	___ Altering Casing	___ Conversion to Injection	
	___ Other -		

13. **Describe Proposed or Completed Operations**
It is intended to recomplete the subject well to the Dakota formation according to the attached procedure and wellbore diagram. The deadline to submit this procedure is 8/1/01.

RECEIVED
2001 JUL 31 PM 2:10
070 FARMINGTON NM

SEP 2001
RECEIVED
OIL CON. DIV
DIST. 3

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

Signed Peggy Cole Title Regulatory Supervisor Date 7/31/01

SDM ___

(This space for Federal or State Office use)

APPROVED BY /s/ Jim Lovato Title _____ Date AUG 30 2001

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.

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

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	[2] Pool Code	[3] Pool Name
30-045-29466	71599	Basin Dakota

[4] Property Code	[5] Property Name	[6] Well Number
7287	Marcotte	2

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	5987'

[10] Surface Location

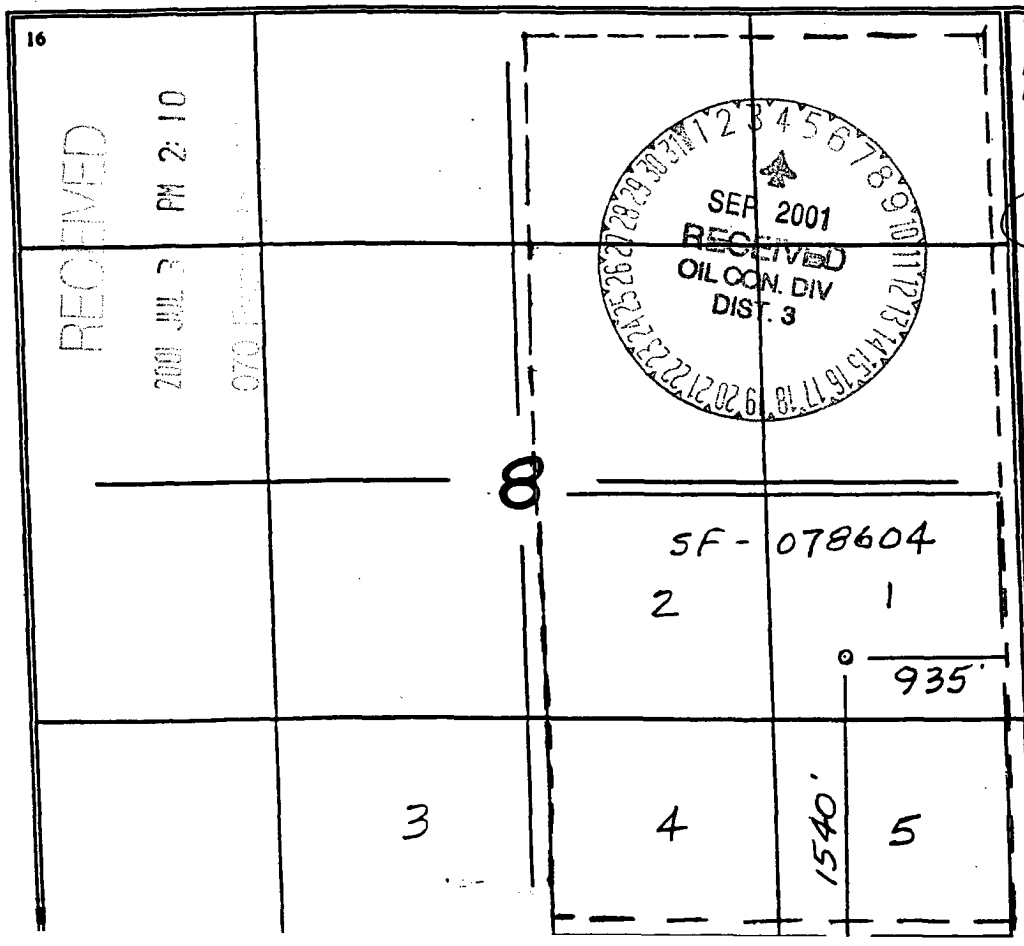
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	8	31-N	10-W		1540	South	935	East	S.J.

[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.
E/318.74			

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 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

CONFIDENTIAL

Peggy Cole
Signature

Peggy Cole
Printed Name

Regulatory Supervisor
Title

7-31-01
Date

[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

NEAL C. EDWARDS
NEW MEXICO
6857
REGISTERED PROFESSIONAL SURVEYOR

6857
Certificate Number

BURLINGTON RESOURCES

Marcotte #2

1,540' FSL, 935' FEL
Unit O, Section 8, T31N, R10W
San Juan County, New Mexico
LAT: 36° 54.60' / LONG: 107° 54.00'
Dakota Pay Add Completion

RECOMPLETION
~~PAY ADD~~ PROCEDURE

Directions to Location:
From Aztec, NM, travel North on US Hwy 505 approximately 8 miles, Turn Right on Dutchman Hill Road. Go ¼mile and Turn Right at dump station. Follow main road 1½ miles, half way up the canyon, and Turn Right. Follow to location.

Project Objective:
This is a ~~pay add completion~~ RECOMPLETION. The Marcotte #2 was originally completed in Sept of 1997 to test the Pennsylvanian formations in the San Juan Basin. Multiple zones were tested and found to be non-productive. These zones include the Granite Wash Diorite, Leadville, Pinkerton Trail, Molas, Alkali, Barker Creek, Alkai Gulch, Upper Akah, and the Morrison. Several highly porous and permeable sands still exist behind casing and this completion will attempt to further exploit the Upper Dakota for productive gas reserves. If the Upper Dakota completions are unsuccessful, the well will once again be temporarily P&A until further studies can be made.

FYI: It is anticipated that the 89' of net pay present in the well will require perforating and hydraulic fracturing to establish commercial production. This procedure is designed to pump down large casing, 9 5/8" and 7". The treatment can be done rig-less but requires a rig to run production tubing after the frac. Perforations must be large enough to penetrate both casing strings while still allowing an entrance hole size of at least 0.27". A normal sized slick-water Upper Dakota frac will be placed.

Deliver to location the following equipment:
1. Nine (9) - 400 bbl tanks filled with 2% KCl water.
2. One (1) 2 3/8" pump off expendable check
3. One (1) 2 3/8" Seating Nipple
4. 7,100' of 2 3/8" 4.7 J-55 EUE tubing for production tubing
5. 2' of 2 3/8" 4.7 J-55 EUE tubing for marker joint

UPPER DAKOTA COMPLETION AND TESTING:

Notify NMOCD of our move on location

1. Inspect location. Place fire and safety equipment in strategic locations. Conduct safety meeting with all personnel on location to discuss potential hazards and project procedure. Comply with all BR, BLM, and NMOCD rules and regulations.

2. Set nine (9) 400 bbl frac tanks and fill with 2% KCl.

3. Record and report SI pressure on casing.

4. Blow down well. NU pressure testers to wellhead, load hole with ~~Slickwater~~ 2% KCl.

5. Pressure test casing to 4,100 psi and hold for five minutes. Release pressure from casing. RD Pressure testers.

6. NU Basin Well Logging. **Under full lubricator with 2" bleed-off valve in lubricator,** RIH with 4" Ported Hollow steel carrier gun. Block perforate the Dakota at the following depths with HSC-4000-317T charges (23 gram, 0.33" dia., 20" penetration) at 1 spf and 0° phasing.

Interval	Interval Length	Number of holes	Phasing	Shots per Foot
7,139'-7,170'	31'	32	0°	1
7,221'-7,236'	15'	16	0°	1
7,267'-7,280	13'	14	0°	1
7,310'-7,340'	30'	31	0°	1
Total	**89' Gross**	**93**		

7. Perforate with well shut-in in three gun runs. Inspect guns to ensure all shots fired. Note any pressure changes after each run. Once gun runs have been completed, record the stabilized surface shut-in pressure. POOH with casing gun.

8. RU stimulation company prepare to breakdown perforations. Pressure test surface lines to 5,100 psi. Pump slickwater into perforations to establish rate at maximum of 4,100 psi (85% of burst). Record breakdown pressure. (If an injection rate of 10 bpm cannot be established at max pressure, call office for instruction.)

9. Once formation has broken, switch to acid. **Do NOT balloff.** Pump 30 bbls of 15% HCL (Add 2/1,000 gallons corrosion inhibitor) and flush with designed frac pad at the maximum rate that pressure or horsepower limitations will allow (which ever occurs first). Do not exceed 4,100 psi. Initially, pressure may be higher due to friction losses while the 2% KCl is in the casing.

10. Once acid has been pumped away, switch to slick water and begin pad to fracture stimulate Upper Dakota interval per the attached schedule at 50 BPM, with an estimated 40,000 #'s of 20/40 Tempered LC proppant in slickwater (max. surface press. 4,100 psi). Flush within 200' of top perforation. Shut down and record ISIP, 5, 10, and 15 min. shut-in pressures. Record the barrels of break down and frac load to recover. RD and release stimulation company.

11. Immediately flow well back as necessary to minimize sand production, assuming the well will unload. Clean up to less than 1 BPH water and trace of sand. If the liquid rate stabilizes above 1 BPH, then call the office for handling instructions. Obtain a pitot gauge and record results on DFW report.

12. If the well will not flow, MIRU completion rig. Inspect location and test rig anchors. Place fire and safety equipment in strategic locations. Conduct safety meeting to discuss potential hazards and project procedure. Comply with all BR, BLM, and NMOCD rules and regulations.

13. Record and report SI pressures on casing. Blow down well. ND WH and NU BOPE with annular preventor, flow tee and stripping head. Redress production wellhead as necessary. Ensure all lines are staked down securely.

14. MU tubing string w/ expendable check on bottom, seating nipple, 1 joint 2-3/8", 4.7# J-55 tubing, 1-2' pup joint and the remaining 2-3/8" tubing. Broach tubing while RIH. Check for fill. Clean out to PBTD @ 7,389'. Land tubing at +/- 7,100'. (Top Dakota perf at 7,139')

15. ND BOP and NU Tree and manifold assembly. Pump off expendable check. Make swab runs to kick well off if needed. Obtain stabilized pitot gauges at 15, 30, 45, and 60 min for the entire

well. Record on DFW report. **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.** If well <u>does</u> produce, RD completion rig and MOL.

16. If well <u>does not</u> produce, POOH and LD 2 3/8" tubing. Notify BR Regulatory (Peggy Cole 326-9727) and the appropriate Regulatory Agency. RU wireline unit, RIH with 7" CIBP and set @ 7,100'. Dump bail 5 sacks Class "B" neat on top of CIBP. RD wireline unit. RD completion rig and MOL.

Compiled By: _____
David C. Smith
Production Engineer

Approval: _____ for WSS
Inventory Development Manager

_____ 7/26/01
Drilling Superintendent

<u>Engineer</u>

<u>David C. Smith</u>
Office - 326-9826
Pager - 324-7430
Fax - 324-9882

VENDORS:

	<u>SERVICE COMPANY</u>	**<u>PHONE NUMBER</u>**
Cased Hole:	Basin Perforating	327-5244
Stimulation:	Halliburton	325-3500
Frac Valve	District Tools	
Potasium Chloride		

q:\area\dakota\2000\workover\FossFed5\PAYADDprocedure.doc

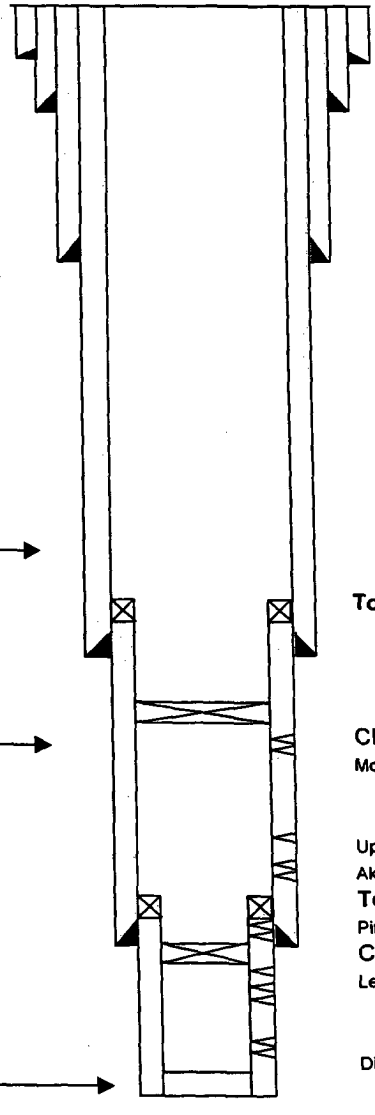
Marcotte 2

1540' FSL, 935' FEL
Section 8, T31N, R10W
#REF!

LAT: 36 deg 54.60' LONG: 107 deg 54.00'

GL = 5,984' **KB= 6,012'**

Current Wellbore



Conductor Casing:
36" 36 lb/ft
Set @ 073'
TOC @ Surface

Surface Casing:
30" 94 lb/ft
Set @ 490'
TOC @ Surface

Intermediate Casing:
13 7/8" 68 lb/ft
Set @ 3,101'
TOC @ Surface

Intermediate Casing:
9 5/8" 47/43 lb/ft - L80
Set @ 7,250'
TOC @ Surface

Intermediate Liner:
7" 26 lb/ft - N80
Set @ 13,484'
TO Liner @ 7,090'

Production Liner:
5" 18 lb/ft - P110
Set @ 14,018'
TO Liner @ 13,362'

Top of Liner @ 7,090'

CIPB w/ Cmt @ 7,389'
Morrison Perfs @ 7,561-7,573 (2 spf)

Upper Akah Perfs @ 12,661-12,687 (1 spf)
Akah/Bkr Cr/Alkali Gul Perfs @ 12,890-13,349 (67 total)
Top of Liner @ 13,362'
Pinkerton Trl/Molas Perfs @ 13,390-13,554 (65 total)
CIPB w/ Cmt @ 13,850'
Leadville Perfs @ 13,5620-13,733 (69 total perfs)

Diorite Perfs @ 13,969-14,004

PBTD= 7,481'
TD= 14,020'

CURRENT WELLBORE

DCS 07/24/01

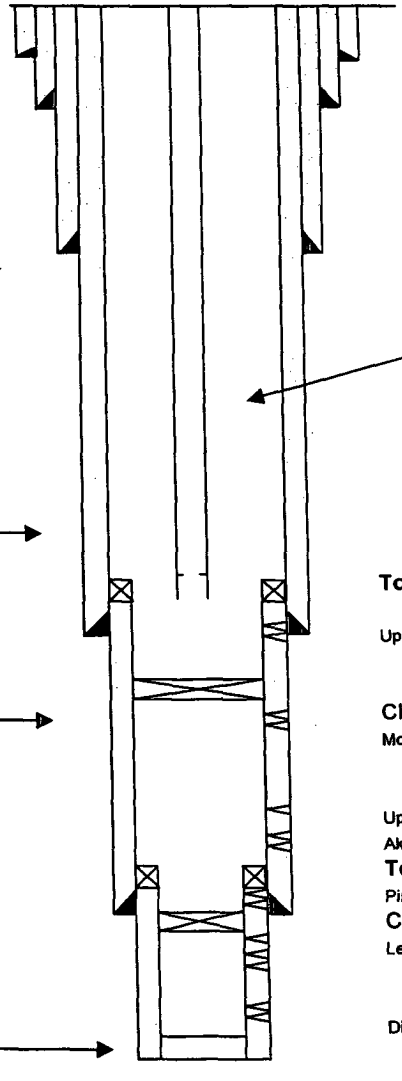
Marcotte 2

1540' FSL, 935' FEL
Section 8, T31N, R10W
#REF!

LAT: 36 deg 54.60' LONG: 107 deg 54.00'

GL = 5,984' KB= 6,012'

Proposed Wellbore



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Production Liner:
5" 18 lb/ft - P110
Set @ 14,018'
TO Liner @ 13,362'

Production Tubing:
2 3/8" 4.7 lb/ft
EOT @ 7,100'

Top of Liner @ 7,090'

Upper Dakota Perfs @ 7,139-7340 (93 total perfs)

CIPB w/ Cmt @ 7,389'
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PROPOSED WELLBORE

DCS 07/24/01