

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

1200' FNL, 2390' FEL, Sec. 22, T-30-N, R-11-W, NMPM, San Juan County

API # (assigned by OCD)

30-045-29936

5. Lease Number

Fee

6. State Oil&Gas Lease #

7. Lease Name/Unit Name

Vasaly Com

8. Well No.

#2

9. Pool Name or Wildcat

WC:30N11W22B Morrison

10. Elevation:

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

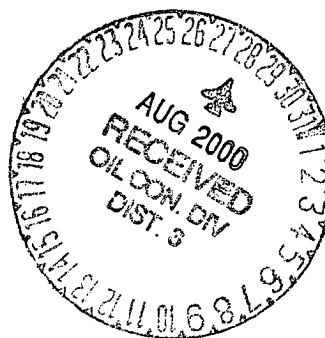
☐ Non-Routine Fracturing

☐ 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.



SIGNATURE

Jeannette Case

Regulatory Administrator August 24, 2000

TLW

(This space for State Use)

Approved by

[Signature]

Title

DEPUTY OIL & GAS INSPECTOR, DIST. 3

Date

SEP 28 2000

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 30-045-29936		2 Pool Code 97141		3 Pool Name WC: 30N11W22B Morrison	
4 Property Code 7622		5 Property Name VASALY COM			6 Well Number 2
7 GRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			9 Elevation 5856'

10 Surface Location



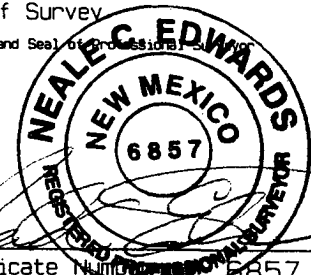
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	22	30N	11W		1200	NORTH	2390	EAST	SAN JUAN

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 640	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

<div>16</div> <div>5467.44'</div> <div>1200'</div> <div>2390'</div> <div>2681.58'</div> <div>FEE</div> <div>22</div> <div>SF-078138</div> <div>2491.50'</div> <div>5186.28'</div> <div>FEE</div> <div>2643.30'</div> <div>2669.04'</div>		<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</div> <div></div> <div>Signature</div> <div>Peggy Cole</div> <div>Printed Name</div> <div>Regulatory Supervisor</div> <div>Title</div> <div>8-25-00</div> <div>Date</div>	
		<div>18 SURVEYOR CERTIFICATION</div> <div>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.</div> <div>APRIL 21, 1999</div> <div>Date of Survey</div> <div></div> <div>Signature and Seal of Professional Surveyor</div> <div></div> <div>Certificate Number 6857</div>	

Vasaly Com #2
Morrison Completion Procedure
Sec. 22, 30N, 11W
San Juan County, New Mexico

Summary:

The Vasaly Com #2 was a 1999 Exploration well that was drilled to a total depth of 13,083' to test a series of Pennsylvanian ages reservoirs. After testing non-commercial rates in three intervals, the wellbore was temporarily abandoned at a PBTD of 11,688'. This Completion Procedure details the operations required to isolate and test the Morrison formation in the subject wellbore. In addition to preparing the wellbore for a test in the Morrison intervals, this procedure also evaluates and prepares the wellbore for future completions in the Dakota and Mesaverde intervals.

- Comply with 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.
1. 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 3 - 400 BBL frac tanks and fill w/ 2% KCL. ND wellhead and NU BOP, stripping head and blooie line. Test BOP.
 2. TIH w/ 2-7/8", 6.5# J-55 tbg to 10,000' and circulate out 10.3 ppg CaCl with 2% KCl water. TOOH. (Leave CaCl in tank on location to be available if needed during Morrison test operations)
 3. RU wireline company and shoot 2 squeeze holes at 7,150'.
 4. Establish injection rate of 2-3 BPM (**MAXIMUM SURFACE PRESSURE = 5,000 psi**).
 5. Shoot squeeze holes at 6684'.
 6. Set Cmt Ret w/ wireline at 7,100'.
 7. TIH with stinger on 2-7/8", 6.5 # J-55 tbg. Sting into retainer and attempt to circulate between 7" x 9-5/8" annulus and through squeeze holes at 6684'. If circulation is established, proceed to step #8. If circulation is NOT established, proceed to step #10.
 8. Circulate at 2-3 BPM for 30 minutes. Cement with 120 sx of 50/50 Class H / San Juan Poz Cement*. *Cement to include the following additives and design specifications:

• 50% Class H	Water: 4.95 Gal / sx
• 50% San Juan Poz	Yield: 1.2 CF / sx
• 0.4% HALAD-344	Weight: 13.7 ppg
• 0.1% HR-5	
• 0.2% CFR-3	
 9. Displace cement to 6910' with 40 Bbls 2% KCl (**MAXIMUM SURFACE PRESSURE = 5,000 psi**). Sting out of Retainer and TOOH, leaving ±29 ft on cement on top of retainer. Proceed to step #17.
 10. Spot 50 sx of 50/50 Class H /San Juan Poz Cement in tubing. Use same additives as in step #8.

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11. Sting into retainer and displace cement to 6910' with 40 Bbls 2% KCl (**MAXIMUM SURFACE PRESSURE = 5,000 psi**). Sting out of Retainer and TOOH, leaving ± 29 ft on cement on top of retainer.
12. RU wireline and shoot 2 squeeze holes at 6,950' and establish injection rate of 2-3 BPM (**MAXIMUM SURFACE PRESSURE = 5,000 psi**).
13. Set Cmt Ret w/ wireline at 6900'.
14. TIH w/ 2-7/8", 6.5#, J-55 tbg. Sting into retainer and establish circulation between 7" x 9-5/8" annulus and through squeeze holes at 6684'.
15. Circulate at 2-3 BPM for 30 minutes. Cement with 60 sx of 50/50 Class H / San Juan Poz. Use same cement additives as Step #8.
16. Sting into retainer and displace cement to 6736' with 39 Bbls 2% KCl (**MAXIMUM SURFACE INJECTION PRESSURE 5,000 psi**). Sting out of Retainer and TOOH, leaving ± 25 ft of cement on top of retainer.
17. Wait on cement for 18 hours.
18. TIH with Bit on 2-7/8", 6.5#, J-55 tbg and clean out to $\pm 7,070'$. (Cmt Ret @ 7,100' with ± 29 of cement left on top). TOOH.
19. Pressure Test casing to 1,000 psi.
20. MI Basin Wireline and run CBL from COTD of 7070' to 4000'.
21. TIH with 2-7/8" tbg to 1250' and blow hole dry for under-balanced perforating. Continue TIH to 7028' and spot 5 Bbls of 15% HCL Acid** across proposed perforation interval. TOOH.

*Acid Additives per 1000 gal:

2 gal Cl-22
 5 gal Ferrotrol 300L
 1 gal Flowback 20

Corrosion Inhibitor
 Iron Control
 Surfactant

MORRISON

22. RU Basin Wireline, RIH w/ 4" Scalloped Gun; 4 SPF w/ 120 degree phasing (Charge# SDP-5000-400; 39 gr; 0.37" Dia.; 48.13" penetration).
Perforate "Morrison" interval 7018'-7028' (40 Holes).
 Wellbore should be under-balanced by ± 500 to 600 psi. POOH w/ wireline. Correlate perforation depths with Schlumberger open hole logs run on 11/12/00.
23. If well flows naturally after perforating go to step #33. If well will not flow, go to step #24.
24. RU Stimulation Company. Breakdown perforations with 1500 gal 2% KCL. **DO NOT EXCEED MAXIMUM SURFACE INJECTION PRESSURE OF 5000 psi.** Pump at maximum rate without exceeding maximum pressure limitation.
25. Attempt to flow well back. If well will flow naturally, go to step #33. If well will not flow, go to step #26.
26. TIH w/ 1 joint 2-7/8" 6.5# J-55 tubing, w/ notch collar on bottom, 2.25" ID F-Nipple with plug in place, and remaining 2-7/8" tubing. Land tubing $\pm 7000'$.

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Morrison Completion Procedure
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27. Under a full lubricator with grease, RIH with swab cups on sandline and begin swabbing the well in on a $\frac{3}{4}$ " choke until well begins to flow.
28. Flow back well. When the well starts making gas, flow to test separator on a $\frac{3}{4}$ " choke. Gradually decrease the choke size until the well is flowing mostly gas with a minimum of 2800 psi of back-pressure on the well (Approximately 85% of bottom hole pressure). If 2800 psi cannot be reached, flow the well at the highest stabilized pressure. Catch water and gas samples.
29. Based on water and gas rates, another procedure for additional stimulation and testing may be required.
30. If production rates from the "Morrison" interval justify a single completion, Proceed to Step #35. If the "Morrison" is determined to be non-commercial go to step #31.
31. MI wireline and set CIBP @ +6990'. Pressure test CIBP to 5000 psi. TIH w/ 2-7/8" tubing and spot 15 sx (17.7 cu ft) of Class H cement $\pm 80'$ on top of CIBP. (BLM Requires 50' on top of CIBP for abandoning a formation)
32. Morrison Test Complete. Proceed to Dakota and Mesaverde Team Procedures.
33. Flow back well. When the well starts making gas, flow to test separator on a $\frac{3}{4}$ " choke. Gradually decrease the choke size until the well is flowing mostly gas with a minimum of 2800 psi of back-pressure on the well (Approximately 85% of bottom hole pressure). If 2800 psi cannot be reached, flow the well at the highest stabilized pressure. Catch water and gas samples.
34. If production rates from the "Morrison" interval justify a single completion, Proceed to Step #35. If the "Morrison" is determined to be non-commercial go to step #31.
35. Kill well and TIH w/ 1 joint 2-7/8" 6.5# J-55 tubing, w/ notch collar on bottom, 2.25" ID F-Nipple with plug in place, and remaining 2-7/8" tubing. Land tubing $\pm 7000'$. ND BOP NU wellhead and production tree. RU slick line under a full lubricator with grease and retrieve plug.
36. Unload well with air while holding back-pressure with $\frac{3}{4}$ " choke until well begins to flow. Flow on a $\frac{3}{4}$ " choke until the well begins flowing gas. Gradually decrease the choke size until the well is flowing mostly gas with a minimum of 2800 psi of back-pressure. If 2800 psi cannot be reached, flow the well at the highest stabilized pressure.
37. Once the proper choke size has been determined, flow the well for at least 24 hours through the test separator until water rate is < 3 BWPH. Continuously monitor and report water and gas rates; tubing, casing and separator pressures. Obtain water and gas samples.
38. Rig down & release rig.

Vasaly Com #2
Morrison Completion Procedure
Sec. 22, 30N, 11W
San Juan County, New Mexico

Approve: R. D. C. 5/17/2000
Team Leader

Recommend: W. P. B. [Signature]
Production Engineer

Approve: _____
Drilling Superintendent

Regulatory: Sundry Notice Required

Yes ☒
No ☐

[Signature] 8-23-00

Vendors:

Wireline / Perforating:	Basin	327-5244
Cementing / Stimulation:	Halliburton	324-3500

Production Engineer:

Randy Buckley Home 599-8136 Office 326-9597 Pager 326-8500

9-5/8" squeezed at 195'; no pressure was observed on SC

13-3/8", 68 ppf, J55, BTC @ 391'
Cemented w/ 700 sks
60 bbls circ to surface

DV Tool @ 3829'
Cemented w/ 1340 sks
50 bbls circ to surface on 2nd stage

7", 26 ppf, P-110 + Baker Tie-Back Seal
Asmby, 6508' KB; Float Collar @ 6465'
Cmt w/ 825 sks, circ 10 Bbls cmt to surf

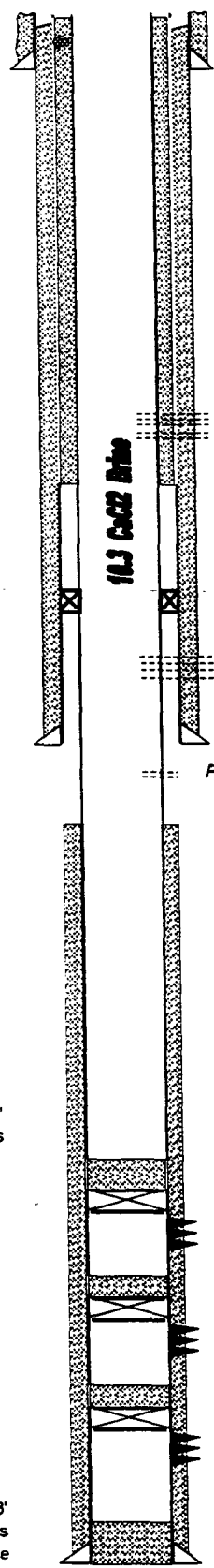
Top of 7" Liner Hanger @ 6498'
Note ID differences through hanger

9-5/8", 47 ppf, L-80, BTC @ 6998'
Cemented w/ 1570 sks
50 bbls circ to surface on 1st stage

DV Tool @ 11473'
Cemented w/ 900 sks

7", 26 ppf, P-110, LT&C @ 13083'
Cemented w/ 500 sks
Lost returns when circ on 1st stage

Wellbore as of 5/1/00



Well Name:
Field:
Location:
Latitude:
Longitude:

Vasaly Com #2
Wildcat
Section 22, T30N, R11W
36 degrees, 48.1 minutes
107 degrees, 58.6 minutes

POTENTIAL COMPLETIONS:

MESAVERDE 3934' - 4820'

Poor Cmt from 5500' to 6500'

No CMT below 6500'

DAKOTA 6684' - 6804'

Proposed Morrison Perfs - 7018' to 7028'

No CMT above 8000'
Poor Cmt above 8500'

11426' - 11448' Honaker Trail 22' Sandstone
Was not tested

11688' TOC
11800' CIBP
11844' - 11871' Lwr Ismay 34' Limestone
11876' - 11883' Perfd in acid; was not acid fracd

12030' TOC
12090' CIBP
12136' - 12217' Akah 45' Limestone
Perfd in acid

12440' TOC
12500' CIBP
12685' - 12699' Lwr Akali Gulch 14' Sandstone
Hydraulic Proppant Fracture

12930' PBTD