

submitted in lieu of Form 3160-5

8
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells 3 00

1. Type of Well
GAS

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

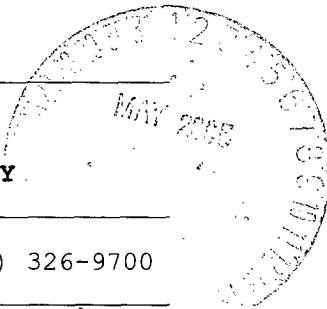
3. Address & Phone No. of Operator

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

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

1750' FNL, 850' FEL, Sec. 31, T-27-N, R-4-W, NMPM

RECEIVED
070 FARMINGTON NM



5. Lease Number
SF-080670

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name
San Juan 27-4 Unit

8. Well Name & Number
San Juan 27-4 Unit 46

9. API Well No.
30-039-20128

10. Field and Pool
Basin DK/Blanco MV

11. County and State
Rio Arriba, NM

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

Type of Submission

☒ X Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☒ X 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 complete a casing repair on the subject well according to the attached procedure.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

NMOC

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

Signed Frances Bend Title Regulatory Specialist Date 04/19/05
fsb

(This space for Federal or State Office use)

APPROVED BY [Signature] Title Reg. Eng. Date 4/29/05

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.

San Juan 27-4 Unit #46 – Casing repair

1750' FNL & 850' FEL

H-31-27N-4W

Rio Arriba County, NM

LAT:36° 31.93 LONG:107° 17.11

AIN: 5178701/5178702

SCOPE: This well recently failed a bradenhead test and is in noncompliance with the BLM/OCD. It is the intent of this procedure to pull tubing and set a CIBP above the perforations. The 4 ½" casing will then be cut inside of the 7" intermediate string and pulled. The wellbore will then be pressure tested to surface and any leaks in the 7" intermediate string will be squeezed. The CIBP will then be drilled out and tubing reran.

1. Hold safety meeting. Comply with all NMOCD, BLM and Burlington safety and environmental regulations. Test rig anchors and build blow pit prior to moving in rig.
2. MIRU. Record tubing and casing pressures and record in DIMS. RU blow lines from casing valves and begin blowing down casing pressure. Kill well with 2% KCL if necessary. ND wellhead and NU BOP.
3. TOOHH with 7953' of 2 3/8". Visually inspect tubing out of hole. Report findings in DIMS.
4. MU 4 ½" bit and scraper and TIH to 3500'. TOOHH with bit and scraper.
5. PU CIBP and packer for 4 ½" 10.5# casing, and TIH on tubing. Set CIBP at +/- 3850', pull up and set packer 5' above CIBP. Pressure test CIBP to 500 psi. Load backside and pressure test to 500 psi. Release packer and TOOHH.
6. Change over to 4 ½" pipe rams. RU wireline specialties and chemical cut 4 ½" casing at +/- 3620'. RD wireline specialties.
7. RU casing crew. Lay down 4 ½" donut and TOOHH with 4 ½" casing. RD casing crew and change over to 2 3/8" pipe rams.
8. Load the hole and pressure test to 500 psi. If pressure test fails, begin leak isolation in the 4 ½" liner and 7" casing. Record and report injection rate, pressure, and location of holes to Sr. Rig Supervisor and project engineer to obtain necessary regulatory approvals and proper squeeze design.
9. RU cement company and squeeze casing leak(s) per Sr. Rig Supervisor and project engineer instructions.
10. PU appropriate bit and TIH to drill out. After drilling out cement and before drilling out CIBP, pressure test squeeze to 500 psi. Drill out CIBP and clean out to PBTD at 8054'. TOOHH with tubing and bit.
11. PU seat nipple (SN), 1 (one) full joint of 2-3/8", 4.7#, J-55 tubing, 2' pup joint and remaining 2-3/8" tubing. Broach and rabbit tubing while TIH. Land tubing at +/- 7950'.
12. ND BOP, NU wellhead. Make swab run to kick well off, if necessary. Notify lease operator that well is ready to be returned to production. RDMO.

SPUD DATE: 8/6/68
COMPLETION DATE: 2/28/69 6/2/99

SAN JUAN 27-4 UNIT 46
Township 027N Range 004W
Section 31 1750' FNL & 850' FEL
Rio Arriba, NM
Carson Nat. Forest?

	<u>Dakota</u>	<u>Mesa Verde</u>
DPNO/AIN	5178701	5178702
METER #	75962	75962
API #	30039201280000	
RUN #	349	349

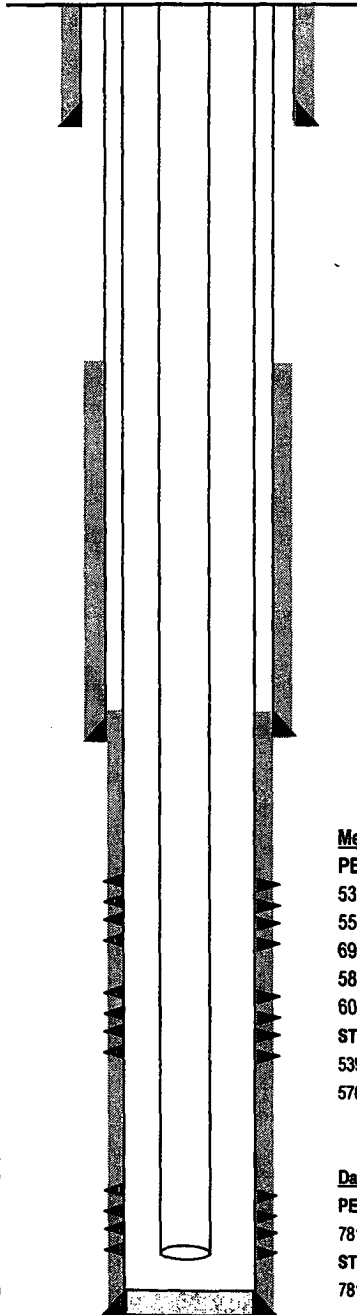
STATUS: Plunger Lift

9 5/8" 32.3# set @ 204'
Cemented with 158 sx to Surf. (circ)

7" 20# set @ 3854'
Cemented with 120 sx to 2450' (TS)

TUBING RECORD:
2 3/8" 4.7# J-55 7953' Seating nipple @ 7920
4 1/2" 11.6&10.5# set at 8060'
Cemented with 395 sx to 3625' (TS) 3692' (CBL)

Current Wellbore



FORMATION TOPS:

Ojo Alamo 0,000'
Kirtland 0,000'
Fruitland Coal 0,000'
Pictured Cliffs 3620'
Mesa Verde 5303'
Point Lookout 5754'
Gallup 6992'
Greenhorn 7730'

Mesa Verde (Recompleted 5/99)

PERFORATIONS:

5392, 93, 98, 5407, 09, 11, 18, 19, 20, 24, 26,
5510, 14, 52, 53, 96, 5605, 18, 30, 39, 40, 67,
69, 79, 81, 5764, 69, 75, 79, 81, 93, 95, 99,
5802, 08, 12, 14, 15, 16, 22, 24, 41, 43, 47, 48,
60, 62, 66, 68, 69, 81, 86, 5904, 08

STIMULATION:

5392-5681: 1775 bbl Slick water, 70,000# sand
5764-5908: 1966 bbl Slick water 90,000# sand

Dakota

PERFORATIONS:

7814-24, 7836-46, 7947-57, 8026-32 (24 SPZ)

STIMULATION:

7814-8032: 55,500 gal water, 56,000# sand

PBTB: 8054'
TOTAL DEPTH: 8060'



NEW MEXICO ENERGY, MINERALS
and
NATURAL RESOURCES
DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178
FAX: (505) 334-6170

www.emnrd.state.nm.us/ocd/District 3/district3.htm

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test 3-30-05 Operator _____ API #30-039-20128

Property Name San Juan 27-4 Well No. 46 Location: Unit H Section 31 Township 27 Range 4

Well Status (Shut-In or Producing) Tubing 170 Intermediate 79 Casing 220 Bradenhead 81

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

TIME	PRESSURES:			9:27 BRADENHEAD FLOWED	9:47 INTERMEDIATE FLOWED
	BRADENHEAD	INTERMEDIATE	CASING		
9:27					
9:32 5 minutes	Strong flow	60	220	Steady Flow ✓	✓
9:37 10 minutes	Strong flow	25	220	Surges	
9:42 15 minutes		10	220	Down to Nothing	
9:47 20 minutes	flowing	flowing	220	Nothing	
9:53 25 minutes	flowing	flow down	220	Gas ✓	✓
9:58 30 minutes	flowing	slight flow	220	Gas & Water	
10:03	flowing	slight flow	220	Water	

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

5 MINUTE SHUT-IN BRADENHEAD 70 INTERMEDIATE < 1#

REMARKS:

9:42 - 9:47 10:03 - 10:08
Braden head still flowing after 30 minutes

By _____

Witness David W. OGD

(Position)

E-mail address _____



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. BU250032
CUST. NO. 52100 - 17050

WELL/LEASE INFORMATION

CUSTOMER NAME	BURLINGTON RESOURCES	SOURCE	BRADENHEAD
WELL NAME	SAN JUAN 27-4 #46	PRESSURE	70 PSIG
COUNTY/ STATE	RIO ARriba NM	SAMPLE TEMP	N/A DEG.F
LOCATION	H31-027N-04W	WELL FLOWING	N
FIELD		DATE SAMPLED	4/4/2005
FORMATION		SAMPLED BY	DALE MCINNES
CUST.STN.NO.	75962	FOREMAN/ENGR.	AREA 9

REMARKS CASING & TUBING HUNG IN DAKOTA
DPNO/AIN# 5178701-D, 5178702-MV ; AP#30039201280000

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.513	0.0000	0.00	0.0050
CO2	0.958	0.0000	0.00	0.0143
METHANE	84.188	0.0000	852.24	0.4664
ETHANE	7.071	1.8900	125.42	0.0734
PROPANE	3.805	1.0477	95.96	0.0579
I-BUTANE	0.907	0.2967	29.56	0.0182
N-BUTANE	1.270	0.4004	41.53	0.0255
I-PENTANE	0.469	0.1716	18.81	0.0117
N-PENTANE	0.339	0.1228	13.62	0.0084
HEXANE PLUS	0.480	0.2111	24.68	0.0154
TOTAL	100.000	4.1402	1,201.82	0.6965

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/2)	1.0033
BTU/CU.FT (DRY) CORRECTED FOR (1/2)	1,206.0
BTU/CU.FT (WET) CORRECTED FOR (1/2)	1,185.9
REAL SPECIFIC GRAVITY	0.6989

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,199.5
DRY BTU @ 14.696	1,203.3
DRY BTU @ 14.730	1,206.0
DRY BTU @ 15.025	1,230.2

CYLINDER #	551
CYLINDER PRESSURE	46 PSIG
DATE RUN	4/6/2005
ANALYSIS RUN BY	DAWN BLASSINGAME



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-8622

ANALYSIS NO. BU250033
CUST. NO. 52100 - 17055

WELL/LEASE INFORMATION

CUSTOMER NAME	BURLINGTON RESOURCES	SOURCE	INTERMEDIATE
WELL NAME	SAN JUAN 27-4 #46	PRESSURE	70 PSIG
COUNTY/ STATE	RIO ARriba NM	SAMPLE TEMP	N/A DEG.F
LOCATION	H31-027N-04W	WELL FLOWING	N
FIELD		DATE SAMPLED	4/4/2005
FORMATION		SAMPLED BY	DALE MCINNES
CUST.STN.NO.	75962	FOREMAN/ENGR.	AREA 9

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.513	0.0000	0.00	0.0050
CO2	0.957	0.0000	0.00	0.0145
METHANE	84.272	0.0000	853.09	0.4663
ETHANE	7.044	1.8828	124.95	0.0731
PROPANE	3.804	1.0474	95.94	0.0579
I-BUTANE	0.901	0.2947	29.37	0.0181
N-BUTANE	1.241	0.3912	40.58	0.0249
I-PENTANE	0.462	0.1691	18.53	0.0115
N-PENTANE	0.336	0.1217	13.50	0.0084
HEXANE PLUS	0.470	0.2067	24.16	0.0151
TOTAL	100.000	4.1136	1,200.12	0.6954

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/2)	1.0033
BTU/CU.FT (DRY) CORRECTED FOR	(1/2)	1,204.3
BTU/CU.FT (WET) CORRECTED FOR	(1/2)	1,184.2
REAL SPECIFIC GRAVITY		0.6978

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 15.025 1,228.4

ANALYSIS RUN BY DAWN BLASSINGAME



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. BU250034

CUSTOMER NAME	BURLINGTON RESOURCES	SOURCE	PRODUCTION CASING
WELL NAME	SAN JUAN 27-4 #46	PRESSURE	PSIG
COUNTY/ STATE	RIO ARRIBA NM	SAMPLE TEMP	N/A DEG.F
LOCATION	H31-027N-04W	WELL FLOWING	N
FIELD		DATE SAMPLED	4/4/2005
FORMATION		SAMPLED BY	DALE MCINNES
CUST.STN.NO.	75962	FOREMAN/ENGR.	AREA 9

REMARKS DPNO/AIN #5178701-D, 5178702-MV
API#30039201280000

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR °
NITROGEN	0.477	0.0000	0.00	0.0046
CO2	0.946	0.0000	0.00	0.0144
METHANE	84.307	0.0000	853.44	0.4670
ETHANE	7.244	1.9362	128.49	0.0752
PROPANE	3.748	1.0320	94.53	0.0571
I-BUTANE	0.936	0.3062	30.51	0.0186
N-BUTANE	1.204	0.3796	39.37	0.0242
TOTAL	100.000	4.1014	1,196.91	0.6928

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z)	1.0032
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	1,201.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	1,181.0
REAL SPECIFIC GRAVITY	0.6951

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,194.5
DRY BTU @ 14.696	1,198.2
DRY BTU @ 14.730	1,201.0
DRY BTU @ 15.025	1,225.0

CYLINDER #	K026
CYLINDER PRESSURE	246 PSIG
DATE RUN	4/6/2005
ANALYSIS RUN BY	DAWN BLASSINGAME

Rev 349

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

API 30-039-20128

1000 Rio Brazos Road
Aztec, New Mexico

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test 09/15/2004 Operator Burlington Resources Oil & Gas

Lease Name SAN JUAN 27-4 UNIT Well No 46 Location: U H Sec. 31 Twp. 027N Rge. 004W

Pressure (Flowing) Dwt Tubing 240 Intermediate 45 Casing 255 Bradenhead 50

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH.

TIME:	PRESSURES:		BRADENHEAD FLOWED:	INTERMEDIATE FLOWED:
	INTERMEDIATE	CASING		
5 Min.	<u>45</u>	<u>255</u>	Steady Flow <u>X</u>	<u>X</u>
10 Min.	<u>45</u>	<u>255</u>	Surges _____	
15 Min.	<u>45</u>	<u>255</u>	Down to Nothing _____	
20 Min.	<u>45</u>	<u>255</u>	Nothing _____	
25 Min.			Gas <u>X</u>	<u>X</u>
30 Min.			Gas & Water _____	
			Water _____	

If Bradenhead flowed water, check description below:

Clear _____
Fresh _____
Salty _____
Sulfur _____
Black _____

Remarks: _____
Ending: BH Press.: 0 Intern. Press. 0
Braden Head had 50 lbs. Tested 20 min. Shut
Braden Head in for 5 min. psi was 50.
Intermediate had 45 lbs tested for 20 min. Shut in
for 5 min. psi was 30
lbs. _____

By DALE MCINNES 349
Lease Operator
Position _____

Witness _____

OIL CONSERVATION DIVISION

1000 Rio Brazos Road
Aztec, New Mexico

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test 07/16/2001 Operator Burlington Resources Oil & Gas

Lease Name SAN JUAN 27-4 UNIT Well No 46 Location: U H Sec. 31 Twp. 027N Rge. 004W

Pressure (Shut-in) Dwt Tubing 240 Intermediate 0 Casing 260 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH.

TIME:	PRESSURES:		BRADENHEAD FLOWED:	INTERMEDIATE FLOWED:
	INTERMEDIATE	CASING		
5 Min.		260	Steady Flow	
10 Min.			Surges	
15 Min.			Down to Nothing	X
20 Min.			Nothing X	
25 Min.			Gas	X
30 Min.			Gas & Water	
			Water	

If Bradenhead flowed water, check description below:

Clear _____
Fresh _____
Salty _____
Sulfur _____
Black _____

Remarks: _____
Ending: BH Press.: 0 Intern. Press. 0
bradenhead dead, intermediate
dead

By DALE MCINNES 349
Lease Operator

Position

Witness _____

OIL CONSERVATION DIVISION

1000 Rio Brazos Road
Aztec, New Mexico

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test 04/23/2001 Operator Burlington Resources Oil & Gas

Lease Name SAN JUAN 27-4 UNIT Well No 46 Location: U H Sec. 31 Twp. 027N Rge. 004W

Pressure (Shut-in) Dwt Tubing 240 Intermediate 0 Casing 260 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH.

TIME:	PRESSURES:		BRADENHEAD FLOWED:	INTERMEDIATE FLOWED:
	INTERMEDIATE	CASING		
5 Min.		260	Steady Flow	
10 Min.			Surges	
15 Min.			Down to Nothing	
20 Min.			Nothing	X
25 Min.			Gas	
30 Min.			Gas & Water	
			Water	

If Bradenhead flowed water, check description below:

Clear _____
Fresh _____
Salty _____
Sulfur _____
Black _____

Remarks: _____
Ending: BH Press.: 0 Intern. Press. 0
Bradenhead
dead

By DALE MCINNES 349
Lease Operator

Position

Witness _____

1000 Rio Brazos Road
Aztec, New Mexico

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test	11/19/1998	Operator	Burlington Resources Oil & Gas
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Lease Name SAN JUAN 27-4 UNIT Well No 46 Location: U H Sec. 31 Twp. 027N Rge. 004W

Pressure (Flowing) Dwt	Tubing	183	Intermediate	Casing	249	Bradenhead	0
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OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH.

TIME:	PRESSURES:		BRADENHEAD FLOWED:	INTERMEDIATE FLOWED:
	INTERMEDIATE	CASING		
5 Min.		249	Steady Flow	
10 Min.			Surges	
15 Min.			Down to Nothing	
20 Min.			Nothing	X
25 Min.			Gas	
30 Min.			Gas & Water	
			Water	

If Bradenhead flowed water, check description below:

Clear _____

Fresh _____

Salty _____

Sulfur _____

Black _____

Remarks:			
Ending:	BH Press.:	0	Interm. Press.
		0	

By DALE MCINNES 349
Lease Operator

Position

Witness