

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

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

1460' FNL, 1800' FEL, Sec. 4, T-27-N, R-4-W, NMPM

5. Lease Number
SF-080668

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 59

9. API Well No.
30-039-20369

10. Field and Pool
Blanco MV/Basin DK

11. County and State
Rio Arriba, NM

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

Type of Submission

Type of Action

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Final Abandonment

☐ Altering Casing

☐ Conversion to Injection

☒ Other Bradenhead Retest

13. Describe Proposed or Completed Operations

This sundry is in response to your letter dated April 22, 2005, directing Burlington Resources to initiate remediation by July 31, 2005 on the San Juan 27-4 Unit 59. Remediation would be intended to eliminate the apparent communication between the production casing and the intermediate casing. Our position is however that even with this communication between intermediate and production strings, we are not in violation of Rule 108. As noted in the schematic, after cementing the 4 1/2" production string a cement top was measured (using a temperature survey) 1161' above the shoe of the 7" string (7" shoe at 4536', top of cement for 4 1/2" at 3375'). As long as the integrity of the 7" intermediate string is true and no pressure is seen on the Bradenhead, waste is being prevented and fresh water is protected. If at any time excess pressure is measured on the Bradenhead or communication occurs between the Bradenhead and intermediate casing remediation will take place. The following attachments are included as requested in your letter:
Letter dated April 22, 2005; Bradenhead tests from March 30, 2005 and September 23, 2004; Wellbore schematic; Temperature survey; and gas analysis from production and intermediate casing.

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

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

Signed Frances Bend Title Regulatory Specialist Date 03/23/05

(This space for Federal or State Office use)

APPROVED BY [Signature] Title Petr. Eng Date 6/8/05

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.

NMOCD

2005 MAY 13 PM 1:15
RECEIVED
070 FARMINGTON



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

BURLINGTON RESOURCES

April 22, 2005

APR 25 2005

Dolores Silseth
Burlington Res O&G Co
PO Box 4289
Farmington NM 87499

FARMINGTON, NEW MEXICO
REGULATORY

Re: San Juan ²⁷⁻⁴~~29-4~~ Unit 59, G-04-27N-04W, API # 30-039-20369

Dear Dolores

The 2004 Bradenhead test and 2005 retest on the above well indicate a failure. In order to comply with Rule 108, prevent waste and protect fresh water, you are hereby directed to initiate remedial activity before July 31, 2005.

With your sundry please attach a copy of the last two tests, a current wellbore schematic including formation and cement tops. Indicate the method used to determine the cement top. Provide gas analysis from both the production and intermediate casing.

Reference RBDMS CTP0511235029 on future correspondence.

Notify the Aztec OCD 24 hours before work is initiated.

If you have any questions, please call me at 505-334-6178, ext. 16.

Sincerely yours,

Charlie T. Perrin
District III Supervisor
cperrin@state.nm.us

CTP/mk

CC: Well File



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 Burlington Resources PI # 30-039-20369000
Property Name SJ 27-4 Well No. 59 Location: Unit G Section 4 Township 27 Range 4
Well Status (Shut-In or Producing) Producing Tubing 490 Intermediate 661 Casing 652 Bradenhead <1 #

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

TIME	PRESSURES:			BRADENHEAD FLOWED	INTERMEDIATE FLOWED
	BRADENHEAD	INTERMEDIATE	CASING		
5 minutes	<u>0</u>	<u>661</u>	<u>652</u>	Steady Flow	<u>X</u>
10 minutes				Surges	
15 minutes		<u>flowing</u>	<u>652</u> <u>11:20</u>	Down to Nothing <u><1 minute</u>	
20 minutes		<u>flowing</u>	<u>410</u> <u>11:25</u>	Nothing <u>X</u>	
25 minutes		<u>flowing</u>	<u>300</u> <u>11:30</u>	Gas	<u>X</u>
30 minutes		<u>flowing</u>	<u>225</u> <u>11:35</u>	Gas & Water	
				Water	

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

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

5 MINUTE SHUT-IN BRADENHEAD 0 INTERMEDIATE 325 Casing 320
REMARKS: 11:15 - 11:20 11:35 - 11:40

Intermediate and prod. casing are communicating - early

By _____

Witness DR Davis OCD

(Position)

E-mail address _____

OIL CONSERVATION DIVISION

API 30-039-20369

1000 Rio Brazos Road
Aztec, New Mexico

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test 09/23/2004 Operator Burlington Resources Oil & Gas

Lease Name SAN JUAN 27-4 UNIT Well No 59 Location: U G Sec. 04 Twp. 027N Rge. 004W

Pressure (Flowing) Dwt Tubing 240 Intermediate 245 Casing 240 Bradenhead 0

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

TIME:	PRESSURES:		BRADENHEAD FLOWED:	INTERMEDIATE FLOWED:
	INTERMEDIATE	CASING		
5 Min.	<u>245</u>	<u>240</u>	Steady Flow	
10 Min.			Surges	
15 Min.			Down to Nothing	<u>X</u>
20 Min.			Nothing	<u>X</u>
25 Min.			Gas	<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 Interm. Press. 0
BH -0 psi.; Int. had 245
psi.

By MIKE MCKINNEY 354
Lease Operator

Position

Witness _____

SPUD DATE: 5/10/71
COMPLETION DATE: 10/8/71

SAN JUAN 27-4 UNIT 59 DK
Township 027N Range 004W
Section 04 1460' FNL & 1800' FEL
Rio Arriba, NM

DPNO/AIN 4502901
METER # 86660
API # 30039203690000
METER # 86660
Run # 354

STATUS: Plunger Lift

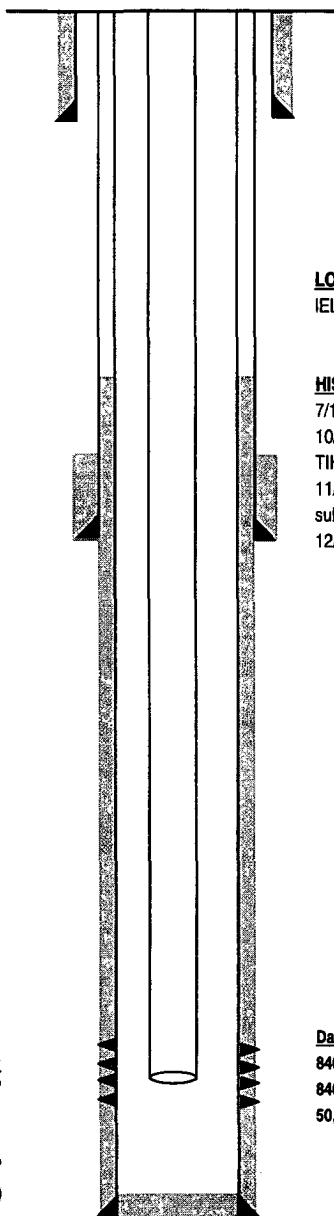
9 5/8" 32.3# set @ 220'
Cemented with 190 sx to surf. (circ)

7" 20# set @ 4536'
Cemented with 115 sx to 4150' (TS)

TUBING RECORD:
2 3/8" 8538' Seating nipple @ 8536'
10/25/01

4 1/2" 10.5 & 11.6# set at 8641'
Cemented with 325 sx to 3375' (TS)

Current Wellbore



PBTD: 8624'
TOTAL DEPTH: 8641'

FORMATION TOPS:

Pictured Cliffs 4130'
Mesa Verde 5933'
Point Lookout 6337'
Gallup 7350'
Greenhorn 8290'
Graneros 8346'
Dakota 8494'

LOGGING:

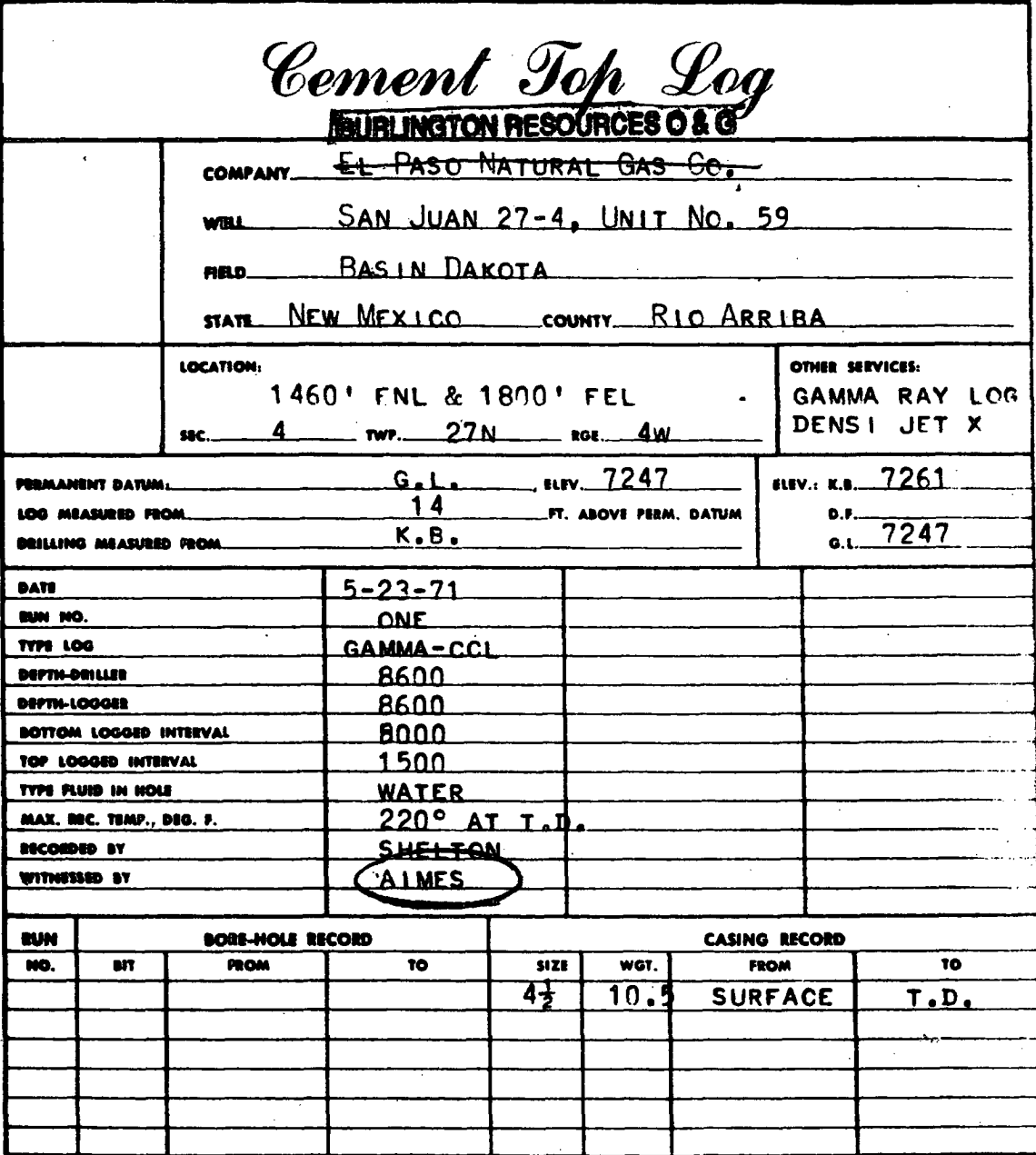
IEL, IND-GR, CDLC GR, Temp. Survey

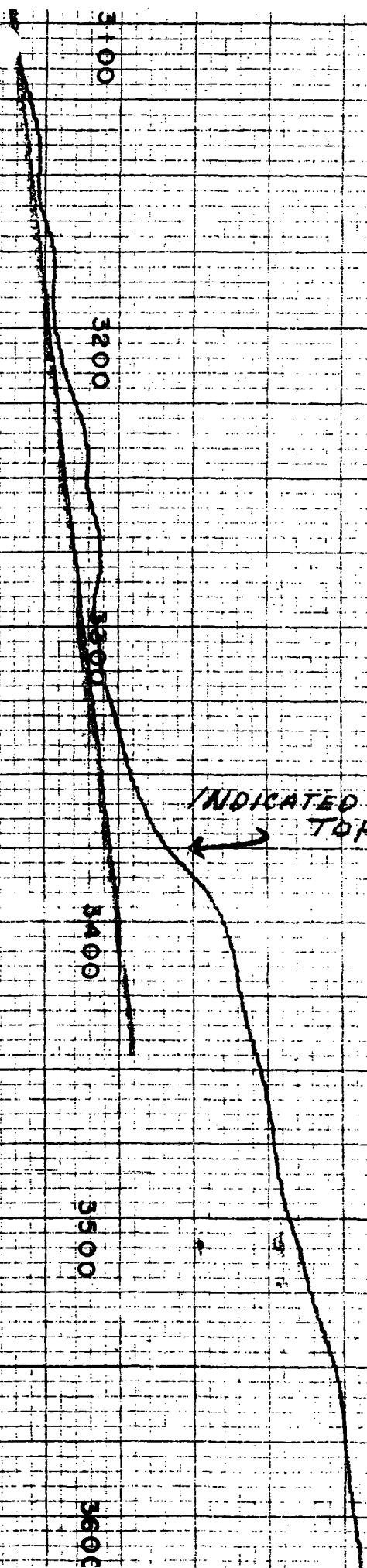
HISTORY

7/1996: Cathodic Protection
10/19-25/01: POOH 272 jts 1 1/2", CO to PBTD,
TIH 274 jts 2 3/8" @ 8538' (SN@8536')
11/27/01: NOI submitted procedure would be
submitted by 1/31/02 for BH repair
12/7/01: Letter to NMOCD to allow for intermediate pressure

Dakota

8408-14', 8470-76', 8496-8506' 8552-72' (18 SPZ)
8408-8572'
50,000# sand, 50,000gal water







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

ANALYSIS NO. BU250042
CUST. NO. 52100 - 17095

WELL/LEASE INFORMATION

CUSTOMER NAME	BURLINGTON RESOURCES	SOURCE	INT. CASING
WELL NAME	SAN JUAN 27-4 #59	PRESSURE	325 PSIG
COUNTY/ STATE	RIO ARriba NM	SAMPLE TEMP	60 DEG.F
LOCATION	G04-27N-04W	WELL FLOWING	Y
FIELD		DATE SAMPLED	5/10/2005
FORMATION	DAKOTA	SAMPLED BY	MIKE MCKINNEY
CUST.STN.NO.	86860	FOREMAN/ENGR.	

REMARKS SAMPLE CONTAINED APPROXIMATELY 2 TABLESPOONS OF AN OILY LIQUID

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.156	0.0000	0.00	0.0015
CO2	1.506	0.0000	0.00	0.0229
METHANE	91.809	0.0000	929.38	0.5086
ETHANE	3.696	0.9879	65.58	0.0384
PROPANE	1.133	0.3120	28.57	0.0173
I-BUTANE	0.283	0.0860	8.57	0.0053
N-BUTANE	0.308	0.0971	10.07	0.0082
I-PENTANE	0.165	0.0604	6.62	0.0041
N-PENTANE	0.115	0.0416	4.62	0.0029
HEXANE PLUS	0.849	0.3734	43.65	0.0273
TOTAL	100.000	1.9585	1,097.04	0.6344

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0027
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,100.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,082.2
REAL SPECIFIC GRAVITY		0.6365

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,094.5
DRY BTU @ 14.696	1,097.9
DRY BTU @ 14.730	1,100.5
DRY BTU @ 15.025	1,122.5

CYLINDER #	A017
CYLINDER PRESSURE	316 PSIG
DATE RUN	5/11/2005
ANALYSIS RUN BY	ROSEANN MUNIZ



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

ANALYSIS NO. BU250043
CUST. NO. 52100 - 17100

WELL/LEASE INFORMATION

CUSTOMER NAME	BURLINGTON RESOURCES	SOURCE	PROD. CASING
WELL NAME	SAN JUAN 27-4 #59	PRESSURE	341 PSIG
COUNTY/ STATE	RIO ARRIBA NM	SAMPLE TEMP	60 DEG.F
LOCATION	G04-27N-04W	WELL FLOWING	Y
FIELD		DATE SAMPLED	5/10/2005
FORMATION	DAKOTA	SAMPLED BY	MIKE MCKINNEY
CUST.STN.NO.	86660	FOREMAN/ENGR.	

REMARKS

ANALYSIS				
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.152	0.0000	0.00	0.0015
CO2	1.478	0.0000	0.00	0.0225
METHANE	91.708	0.0000	928.36	0.5080
ETHANE	4.068	1.0873	72.16	0.0422
PROPANE	1.203	0.3312	30.34	0.0183
I-BUTANE	0.253	0.0828	8.25	0.0051
N-BUTANE	0.281	0.0886	9.19	0.0056
I-PENTANE	0.131	0.0479	5.25	0.0033
N-PENTANE	0.082	0.0297	3.29	0.0020
HEXANE PLUS	0.644	0.2833	33.11	0.0207
TOTAL	100.000	1.9508	1,089.95	0.6293

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z)	1.0026
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	1,093.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	1,075.0
REAL SPECIFIC GRAVITY	0.6310

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,087.2
DRY BTU @ 14.696	1,090.6
DRY BTU @ 14.730	1,093.1
DRY BTU @ 15.025	1,115.0

CYLINDER #	A039
CYLINDER PRESSURE	356 PSIG
DATE RUN	5/11/2005
ANALYSIS RUN BY	ROSEANN MUNIZ