



2030 Afton Place  
Farmington, NM 87401  
(505) 325-6622

Analysis No: EP2021260  
Cust No: 77000-11190

### Well/Lease Information

Customer Name: EPIC ENERGY  
Well Name: LYBROOK SOUTH 13,14 & 16 TB  
County/State: SANDOVAL NM  
Location:  
Lease/PA/CA: SF078360  
Formation:  
Cust. Str. No.: 31042  
  
Heat Trace:  
Remarks: PRESSURED WITH HELIUM TO 30LBS.

Source: METER RUN  
Well Flowing: Y  
Pressure: 25 PSIG  
Flow Temp: DEG. F  
Ambient Temp: 80 DEG. F  
Flow Rate: MCF/D  
Sample Method:  
Sample Date: 06/17/2021  
Sample Time: 10.00 AM  
Sampled By: SHANNON BODO  
Sampled by (CO): WALSH

### Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.2931	0.8952	0.2530	0.00	0.0222
CO2	0.4690	0.1831	0.0800	0.00	0.0071
Methane	67.5829	26.3836	11.5110	682.59	0.3743
Ethane	14.5186	5.6679	3.9010	256.94	0.1507
Propane	9.2388	3.6067	2.5570	232.46	0.1407
Iso-Butane	0.9281	0.3623	0.3050	30.18	0.0186
N-Butane	2.5270	0.9865	0.8000	82.44	0.0507
I-Pentane	0.5264	0.2055	0.1930	21.06	0.0131
N-Pentane	0.5349	0.2088	0.1950	21.44	0.0133
Hexane Plus	1.3812	0.5392	0.6190	72.80	0.0457
Total	100.0000	39.0388	20.4140	1399.91	0.8365

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0049  
BTU/CU.FT IDEAL: 1403.1  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1410.1  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1385.6  
DRY BTU @ 15.025: 1438.3  
REAL SPECIFIC GRAVITY: 0.8403

CYLINDER #: 4113  
CYLINDER PRESSURE: 3 PSIG  
ANALYSIS DATE: 07/07/2021  
ANALYSIS TIME: 03:34:55 PM  
ANALYSIS RUN BY: RICHARD WILSON

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500 Last Cal/Verify: 07/13/2021

GC Method: C6+ Gas



EPIC ENERGY  
WELL ANALYSIS COMPARISON

Lease: LYBROOK SOUTH 13,14 & 16 TB METER RUN 07/13/2021  
 Stn. No.: 31042 77000-11190  
 Mtr. No.:

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Smpl Date:	06/17/2021	12/15/2020	09/12/2019
Test Date:	07/07/2021	01/28/2021	09/18/2019
Run No:	EP2021260	EP210019	EP190111
Nitrogen:	2.2931	2.7150	4.1361
CO2:	0.4690	0.3982	0.3566
Methane:	67.5829	69.5493	65.3791
Ethane:	14.5186	13.1520	14.1220
Propane:	9.2388	8.2429	9.3539
I-Butane:	0.9281	1.0008	1.0327
N-Butane:	2.5270	2.7089	2.8142
I-Pentane:	0.5264	0.6855	0.6587
N-Pentane:	0.5349	0.7003	0.6953
Hexane+:	1.3812	0.8471	1.4514
BTU:	1410.1	1373.0	1411.9
GPM:	20.4140	20.0970	20.4140
SPG:	0.8403	0.8200	0.8594

**From:** [Vanessa Fields](#)  
**To:** "Powell, Brandon, EMNRD"  
**Cc:** [Vern Andrews](#)  
**Subject:** RE: Underground Leak, Lybrook South #013 Repair  
**Date:** Friday, October 15, 2021 3:01:24 PM  
**Attachments:** [Overview of gas leak after exposed IMG\\_9535.jpg](#)  
[Flow line replacement IMG\\_9554.jpg](#)  
[External corrosion picture IMG\\_9545.jpg](#)  
[Finished Site photo IMG\\_9557.jpg](#)  
[Finished Site photo IMG\\_9559.jpg](#)

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Good afternoon Brandon,

Epic Energy excavated and found the natural gas leak that had been reported on the EPIC Energy, Lybrook South #13 well location yesterday, October 14th. The leak was caused by external corrosion in the flow line with the hole in the top 1/3 of the flowline. The hole was 0.030". The leak was downstream of the separator and no hydrocarbons were found when excavated. Gas loss determination was 67 mcf. A initial/ final C-141 will be submitted through E-Permitting.

Please let me know if you should have any questions.

Thank you,  
Vanessa Fields  
Regulatory Compliance Manager  
Walsh Engineering  
O: 505-327-4892  
C: 505-787-9100  
[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

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**From:** Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>  
**Sent:** Thursday, October 7, 2021 6:05 PM  
**To:** Vanessa Fields <vanessa@walsheng.net>  
**Subject:** Underground Leak, Lybrook South #013

Vanessa,

Please see the video we discussed for response.

"If you review the video from 0:34 to 0:49, you'll find more than one point of escape. [view the video](#)"

Thank You

Brandon Powell  
(505) 320-0200



*"He who wishes to gain knowledge is wiser than he who thinks he has knowledge (unknown)"*



**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 57940

**QUESTIONS**

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 57940
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	[30-043-20838] LYBROOK SOUTH #013
Incident Facility	Not answered.

<b>Determination of Reporting Requirements</b>	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
Was or is this venting and/or flaring caused by an emergency or malfunction	No
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a venting and/or flaring event	Yes, minor venting and/or flaring of natural gas.
<i>An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.</i>	
Was there or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/or flaring result in the release of <b>ANY</b> liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the venting and/or flaring within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Flow Line - Production
Additional details for Equipment Involved. Please specify	Epic Energy excavated and found the natural gas leak that had been reported on the EPIC Energy, Lybrook South #13 well location yesterday, October 14th. The leak was caused by external corrosion in the flow line with the hole in the top 1/3 of the flowline. The hole was 0.030" .The leak was downstream of the separator and no hydrocarbons were found when excavated. Gas loss determination was 67

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	68
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

<b>Date(s) and Time(s)</b>	
Date venting and/or flaring was discovered or commenced	10/07/2021
Time venting and/or flaring was discovered or commenced	03:00 PM
Time venting and/or flaring was terminated	07:00 PM
Cumulative hours during this event	13

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>
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Natural Gas Vented (Mcf) Details	Cause: Corrosion   Flow Line - Production   Natural Gas Vented   Released: 67 Mcf   Recovered: 0 Mcf   Lost: 67 Mcf
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	The leak was caused by external corrosion in the flow line with the hole in the top 1/3 of the flowline. The hole was 0.030" .The leak was downstream of the separator and no hydrocarbons were found when excavated. Gas loss determination was 67
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

**Venting or Flaring Resulting from Downstream Activity**

Was or is this venting and/or flaring a result of downstream activity	No
Was notification of downstream activity received by you or your operator	Not answered.
Downstream OGRID that should have notified you or your operator	Not answered.
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/or flaring	Not answered.

**Steps and Actions to Prevent Waste**

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	AVO are checked weekly on all EPIC locations. When inspected the release was not identified by a four gas meter, the leak was identified by a 3rd party FLIR Camera
Steps taken to limit the duration and magnitude of venting and/or flaring	Continue to inspect wells.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Line repaired and continue to inspect locations.

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CONDITIONS  
  
Action 57940

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 57940
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
vanessaf	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	10/26/2021