



## Certificate of Analysis

Number: 6030-22040461-015A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Kevin Garrett  
Caza Operating  
200 N. Loraine St Ste 1550  
Midland, TX 79701

May 03, 2022

Station Name: Frehand Ranch North 22-21 State Com 2H  
Station Number: 55680022  
Station Location: Caza Operating  
Sample Point: Meter run  
Instrument: 70142339 (Inficon GC-MicroFusion)  
Last Inst. Cal.: 05/02/2022 0:00 AM  
Analyzed: 05/03/2022 07:05:15 by ERG

Sampled By: John Whitt  
Sample Of: Gas Spot  
Sample Date: 04/27/2022 08:50  
Sample Conditions: 116.7 psig, @ 91.9 °F Ambient: 69 °F  
Effective Date: 04/27/2022 08:50  
Method: GPA-2261M  
Cylinder No: 1111-003959

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+ 5.812
Nitrogen	1.096	1.12387	1.488		GPM TOTAL C3+ 2.706
Methane	76.432	78.36061	59.422		GPM TOTAL iC5+ 0.570
Carbon Dioxide	0.084	0.08602	0.179		
Ethane	11.317	11.60210	16.491	3.106	
Propane	5.107	5.23609	10.914	1.444	
Iso-butane	0.646	0.66251	1.820	0.217	
n-Butane	1.469	1.50618	4.138	0.475	
Iso-pentane	0.330	0.33833	1.154	0.124	
n-Pentane	0.375	0.38457	1.312	0.140	
Hexanes Plus	0.683	0.69972	3.082	0.306	
	97.539	100.00000	100.000	5.812	

## Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.7328	3.2176
Calculated Molecular Weight	21.16	93.19
Compressibility Factor	0.9963	

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

Real Gas Dry BTU	1269	5129
Water Sat. Gas Base BTU	1247	5040
Ideal, Gross HV - Dry at 14.696 psia	1264.0	5129.2
Ideal, Gross HV - Wet	1242.0	5039.7

Comments: H2S Field Content 0 ppm

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

## Caza Flared Gas Calculation

### FHR 22 8/9

input

calculated

Date	6/8/2022
Reported Flared metered Volume (mcf)	480
Last 7 Day Avg metered Gas Production (mcf)	899.57
% of gas flared vs Produced (% mcf) & (% hrs)	53.4%
Avg Gas production per hour for 24 hrs (mcf)	37.48
number of hours flare was active (hours)	12.81

#### source

pumpers text

pumpers text

prodman ctb report

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DISTRICT IV  
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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

~~X~~ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-44621</b>	Pool Code <b>98220</b>	Pool Name <b>Purple Sage; Wolfcamp</b>
Property Code <b>320546</b>	Property Name <b>FOREHAND RANCH NORTH 22-21 STATE</b>	Well Number <b>2H</b>
OGRID No. <b>249099</b>	Operator Name <b>CAZA OPERATING, LLC</b>	Elevation <b>3140'</b>

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>H</b>	<b>22</b>	<b>23-S</b>	<b>27-E</b>		<b>1480</b>	<b>NORTH</b>	<b>250</b>	<b>EAST</b>	<b>EDDY</b>

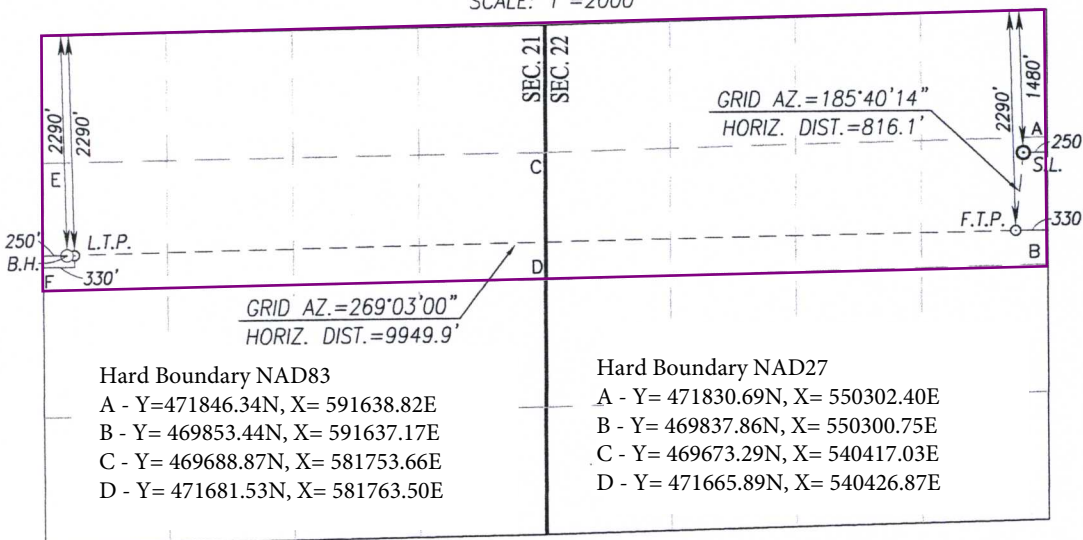
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>E</b>	<b>21</b>	<b>23-S</b>	<b>27-E</b>		<b>2290</b>	<b>NORTH</b>	<b>250</b>	<b>WEST</b>	<b>EDDY</b>

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
<b>640</b>			

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

SCALE: 1"=2000'



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*[Signature]*  
Signature  
01/08/2019  
Date

Steve Morris  
Printed Name

steve.morris@morcoreengineering.com  
E-mail Address

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.

NOVEMBER 28, 2017

Date of Survey  
Signature & Seal of Professional Surveyor:

*[Signature]*  
Certificate Number  
12641  
Ronald J. Eidson  
3239

LSL Rel. 17.11.1118 JWSC W.O.: 18.13.1229

CORNER COORDINATES TABLE

NAD 27 NME

A - Y= 470796.6 N, X= 550785.6 E  
B - Y= 469470.1 N, X= 550784.5 E  
C - Y= 470675.2 N, X= 545534.6 E  
D - Y= 469349.9 N, X= 545531.7 E  
E - Y= 470621.0 N, X= 540256.4 E  
F - Y= 469294.6 N, X= 540259.8 E

CORNER COORDINATES TABLE

NAD 83 NME

A - Y= 470855.4 N, X= 591968.0 E  
B - Y= 469528.9 N, X= 591966.9 E  
C - Y= 470734.0 N, X= 586716.9 E  
D - Y= 469408.6 N, X= 586714.0 E  
E - Y= 470679.7 N, X= 581438.6 E  
F - Y= 469353.3 N, X= 581442.0 E

BOTTOM HOLE LOCATION

NAD 27 NME

Y= 469660.5 N  
X= 540508.8 E  
LAT.=32.291145° N  
LONG.=104.202242° W

LAST TAKE POINT

NAD 27 NME

Y= 469661.3 N  
X= 540588.8 E  
LAT.=32.291147° N  
LONG.=104.201983° W

FIRST TAKE POINT

NAD 27 NME

Y= 469825.2 N  
X= 550454.9 E  
LAT.=32.291561° N  
LONG.=104.170054° W

BOTTOM HOLE LOCATION

NAD 83 NME

Y= 469719.1 N  
X= 581691.0 E  
LAT.=32.291264° N  
LONG.=104.202741° W

LAST TAKE POINT

NAD 83 NME

Y= 469719.9 N  
X= 581771.0 E  
LAT.=32.291266° N  
LONG.=104.202482° W

FIRST TAKE POINT

NAD 83 NME

Y= 469884.1 N  
X= 591637.3 E  
LAT.=32.291680° N  
LONG.=104.170552° W

GEODETIC COORDINATES

NAD 27 NME

SURFACE LOCATION  
Y= 470637.1 N  
X= 550535.5 E  
LAT.=32.293792° N  
LONG.=104.169789° W

GEODETIC COORDINATES

NAD 83 NME

SURFACE LOCATION  
Y= 470695.9 N  
X= 591717.9 E  
LAT.=32.293911° N  
LONG.=104.170287° W

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

DEFINITIONS

Action 116307

DEFINITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 116307
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 116307

**QUESTIONS**

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 116307
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS****Prerequisites**

Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.

Incident Well	[30-015-44621] FOREHAND RANCH NORTH 22 21 STATE #002H
Incident Facility	Not answered.

**Determination of Reporting Requirements**

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

Was this vent or flare caused by an emergency or malfunction	No
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.

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.

Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare 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 vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

**Equipment Involved**

Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

**Representative Compositional Analysis of Vented or Flared Natural Gas**

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	78
Nitrogen (N2) percentage, if greater than one percent	1
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

If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.

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.



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QUESTIONS, Page 2

Action 116307

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 116307
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/08/2022
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:30 PM
Cumulative hours during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Midstream Emergency Maintenance   Gas Compressor Station   Natural Gas Vented   Released: 480 Mcf   Recovered: 0 Mcf   Lost: 480 Mcf
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
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 this vent or flare a result of downstream activity	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[147831] Lucid Artesia Company
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	Downstream operator had compressor issues and high gas sales line pressure. This event was outside the control of the operator.
Steps taken to limit the duration and magnitude of vent or flare	Minimal mcf being flared.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Downstream operator had compressor issues and high gas sales line pressure. This event was outside the control of the operator.

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ACKNOWLEDGMENTS

Action 116307

**ACKNOWLEDGMENTS**

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 116307
	Action Type: [C-129] Venting and/or Flaring (C-129)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
<input checked="" type="checkbox"/>	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
<input checked="" type="checkbox"/>	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
<input checked="" type="checkbox"/>	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Action 116307

**CONDITIONS**

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 116307
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
tberry	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.	6/13/2022