



## Certificate of Analysis

Number: 6030-22040473-010A

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: Igloo 1H  
Station Number: 55680044  
Station Location: Caza Operating  
Sample Point: Meter run  
Instrument: 6030\_GC6 (Inficon GC-3000 Micro)  
Last Inst. Cal.: 05/02/2022 0:00 AM  
Analyzed: 05/02/2022 15:51:16 by ERG

Sampled By: RM  
Sample Of: Gas Spot  
Sample Date: 04/28/2022  
Sample Conditions: 33.6 psig, @ 73 °F  
Effective Date: 04/28/2022  
Method: GPA-2261M  
Cylinder No: 1111-008055

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	4.047	4.09093	5.262		GPM TOTAL C2+	6.038
Methane	73.464	74.26363	54.705		GPM TOTAL C3+	2.848
Carbon Dioxide	0.373	0.37736	0.763		GPM TOTAL iC5+	0.559
Ethane	11.787	11.91543	16.452	3.190		
Propane	5.672	5.73330	11.609	1.581		
Iso-butane	0.618	0.62432	1.666	0.205		
n-Butane	1.576	1.59304	4.252	0.503		
Iso-pentane	0.356	0.35997	1.193	0.132		
n-Pentane	0.369	0.37312	1.236	0.135		
Hexanes Plus	0.662	0.66890	2.862	0.292		
	98.924	100.0000	100.000	6.038		

## Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.7544	3.2176
Calculated Molecular Weight	21.78	93.19
Compressibility Factor	0.9964	

## GPA 2172 Calculation:

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

Real Gas Dry BTU	1246	5129
Water Sat. Gas Base BTU	1224	5040
Ideal, Gross HV - Dry at 14.696 psia	1241.1	5129.2
Ideal, Gross HV - Wet	1219.5	5039.7

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  
Igloo 19 State CTB

input
calculated

Date	7/23/2024
Reported Flared metered Volume (mcf)	130
Last 7 Day Avg metered Gas Production (mcf)	401
% of gas flared vs Produced (% mcf) & (% hrs)	32.4%
Avg Gas prodcuton per hour for 24 hrs (mcf)	16.71
number of hours flare was active (hours)	7.78

source  
pumpers text  
pumpers text  
prodman ctb report

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DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- <b>42356</b>	Pool Code 37580	Pool Name LEA BONE SPRING-SOUTH
Property Code 313780	Property Name IGLOO 19 STATE	Well Number 1H
OGRID No. 249099	Operator Name CAZA OPERATING, LLC	Elevation 3698'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	19	20-S	35-E		200	SOUTH	660	EAST	LEA

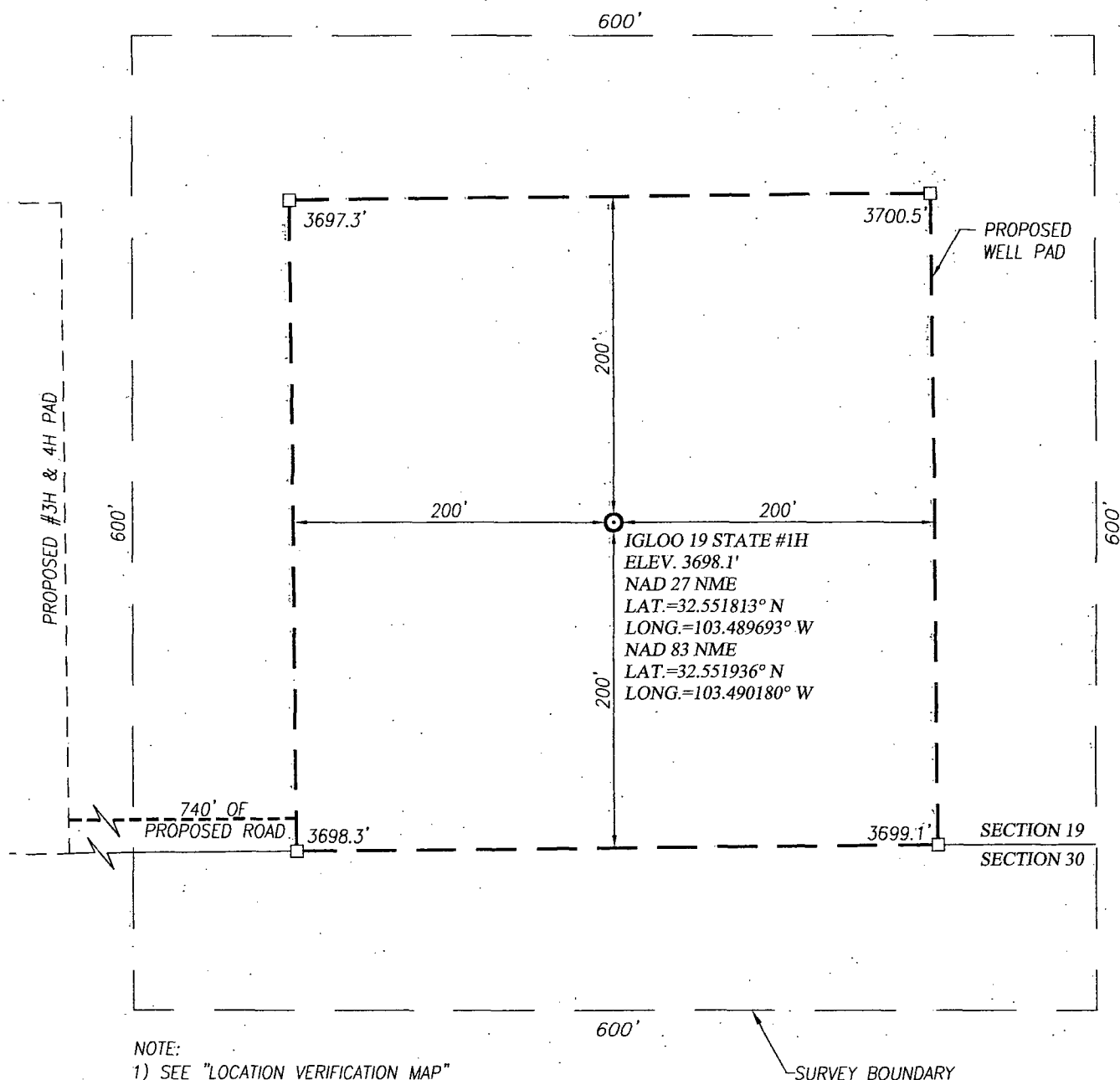
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	19	20-S	35-E		330	NORTH	950	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

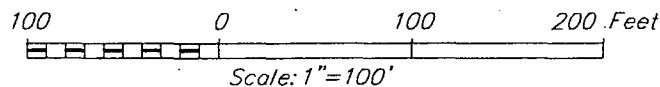
<p>1</p> <p>BOTTOM HOLE LOCATION</p> <p>NAD 27 NME</p> <p>Y= 570242.9 N</p> <p>X= 759624.6 E</p> <p>LAT.=32.564880° N</p> <p>LONG.=103.490626° W</p>	<p>2</p> <p>BOTTOM HOLE LOCATION</p> <p>NAD 83 NME</p> <p>Y= 570305.4 N</p> <p>X= 800805.9 E</p> <p>LAT.=32.565003° N</p> <p>LONG.=103.491113° W</p>		<p>OPERATOR CERTIFICATION</p> <p>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.</p> <p>Signature: <i>Joe T. Janica</i> Date: 01/05/15</p> <p>Printed Name: Joe T. Janica</p> <p>E-mail Address: joejanica@valornet.com</p>
<p>3</p> <p>CORNER COORDINATES TABLE</p> <p>NAD 27 NME</p> <p>A - Y= 570568.5 N, X= 759252.2 E</p> <p>B - Y= 570583.8 N, X= 760572.1 E</p> <p>C - Y= 565298.0 N, X= 760611.1 E</p> <p>D - Y= 565284.8 N, X= 759291.9 E</p>			<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>DECEMBER 1, 2014</p> <p>Date of Survey</p> <p>Signature &amp; Seal of Professional Surveyor:</p> <p><i>Ronald J. Eidson</i> 01/25/2015</p> <p>Certificate Number: 3239</p> <p>LSL: NWSC W.O.: 14.11.1320</p>
<p>4</p> <p>CORNER COORDINATES TABLE</p> <p>NAD 83 NME</p> <p>A - Y= 570631.1 N, X= 800433.5 E</p> <p>B - Y= 570646.4 N, X= 801753.4 E</p> <p>C - Y= 565360.4 N, X= 801792.5 E</p> <p>D - Y= 565347.2 N, X= 800473.4 E</p>			
<p>5</p> <p>GEODETIC COORDINATES</p> <p>NAD 27 NME</p> <p>SURFACE LOCATION</p> <p>Y= 565491.3 N</p> <p>X= 759949.6 E</p> <p>LAT.=32.551813° N</p> <p>LONG.=103.489693° W</p>	<p>6</p> <p>GEODETIC COORDINATES</p> <p>NAD 83 NME</p> <p>SURFACE LOCATION</p> <p>Y= 565553.7 N</p> <p>X= 801131.1 E</p> <p>LAT.=32.551936° N</p> <p>LONG.=103.490180° W</p>		



NOTE:  
1) SEE "LOCATION VERIFICATION MAP"  
FOR PROPOSED ROAD LOCATION.

#### DIRECTIONS TO IGLOO 19 STATE #1H:

FROM THE INTERSECTION OF HWY 62-180 AND CO. RD. H27  
(MARATHON ROAD) GO SOUTH ON CO. RD. H27 APPROX. 5.5  
MILES TURN LEFT ON CALICHE LSE. ROAD AND GO EAST  
APPROX. 1.7 MILES TURN RIGHT AND GO SOUTH APPROX 0.3  
MILES TURN LEFT AND FOLLOW ROAD SURVEY STAKE 871' EAST  
TO THE LOCATION.



## CAZA OPERATING, LLC

IGLOO 19 STATE #1H WELL  
LOCATED 200 FEET FROM THE SOUTH LINE  
AND 660 FEET FROM THE EAST LINE OF SECTION 19,  
TOWNSHIP 20 SOUTH, RANGE 35 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO



PROVIDING SURVEYING SERVICES  
SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
412 N. DAL PASO HOBBS, N.M. 88240  
(575) 393-3117 www.jwsc.biz  
TBPLS# 10021000

Survey Date: 12/1/14

CAD Date: 12/15/14

Drawn By: LSL

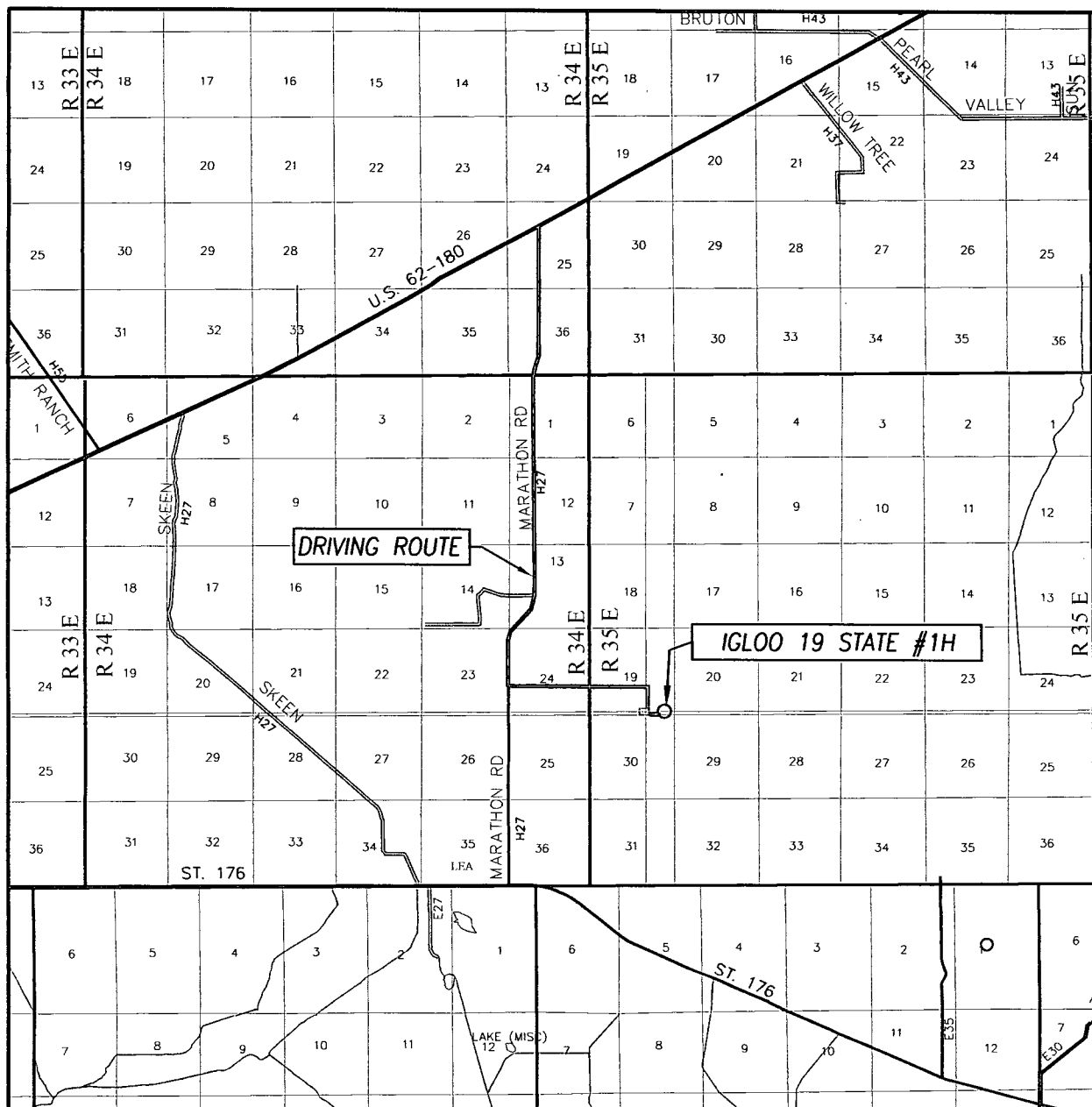
W.O. No.: 14111320

Rev: .

Rel. W.O.:

Sheet 1 of 1

## VICINITY MAP



SCALE: 1" = 2 MILES  
 DRIVING ROUTE: SEE LOCATION VERIFICATION MAP

SEC. 19 TWP. 20-S RGE. 35-E

SURVEY N.M.P.M.

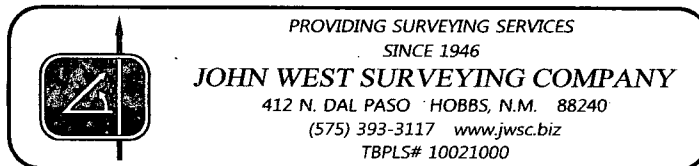
COUNTY LEA STATE NEW MEXICO

DESCRIPTION 200' FSL & 660' FEL

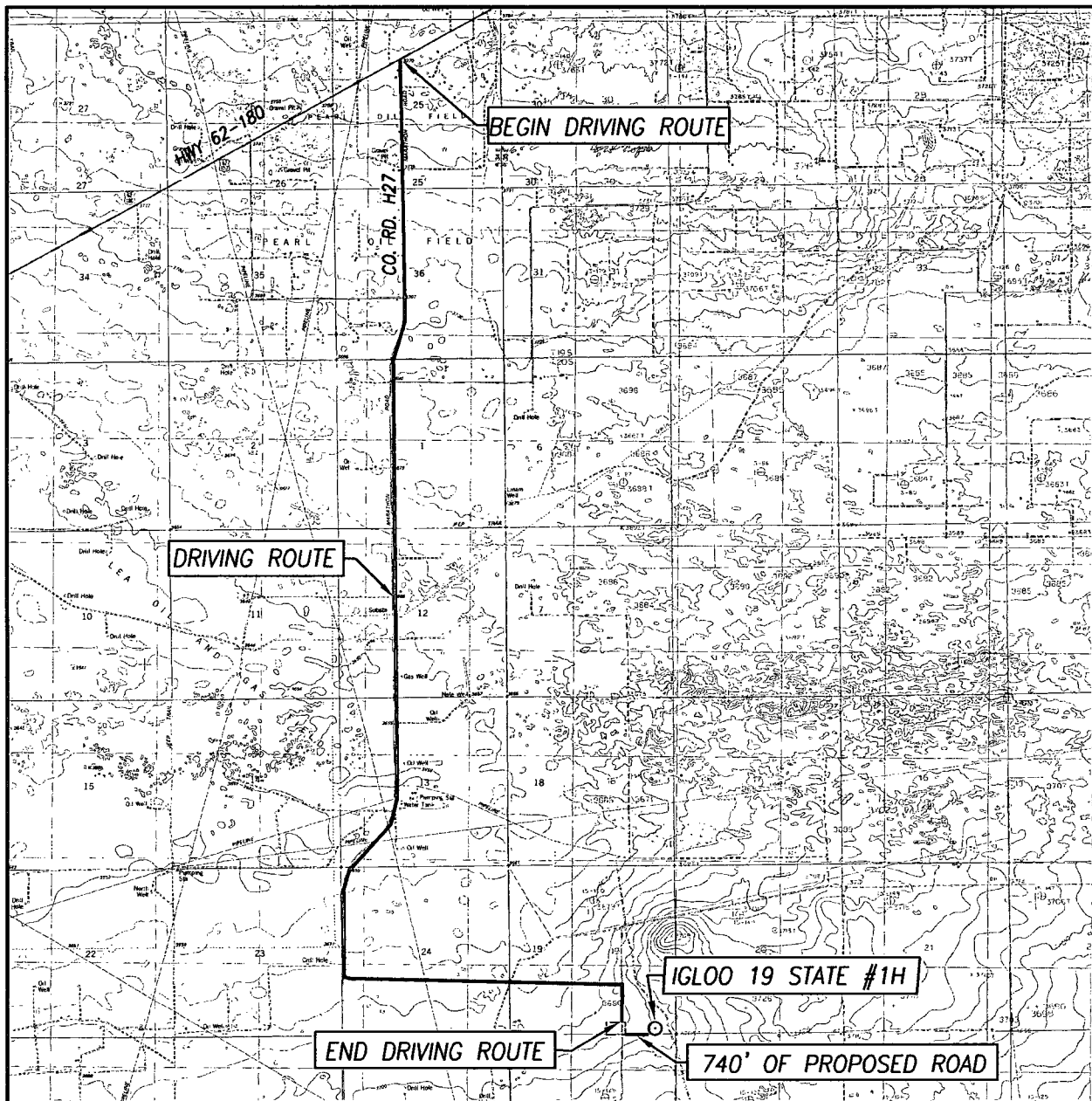
ELEVATION 3698'

OPERATOR CAZA OPERATING, LLC

LEASE IGLOO 19 STATE



# LOCATION VERIFICATION MAP



SCALE: 1" = 5280'

CONTOUR INTERVAL:  
MONUMENT SW, N.M. - 5'  
LEA, N.M. - 10'

SEC. 19 TWP. 20-S RGE. 35-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 200' FSL & 660' FEL

ELEVATION 3698'

OPERATOR CAZA OPERATING, LLC

LEASE IGLOO 19 STATE

U.S.G.S. TOPOGRAPHIC MAP  
MONUMENT SW, N.M.

## DIRECTIONS TO IGLOO 19 STATE #1H:

FROM THE INTERSECTION OF HWY 62-180 AND CO. RD. H27 (MARATHON ROAD) GO SOUTH ON CO. RD. H27 APPROX. 5.5 MILES TURN LEFT ON CALICHE LSE. ROAD AND GO EAST APPROX. 1.7 MILES TURN RIGHT AND GO SOUTH APPROX 0.3 MILES TURN LEFT AND FOLLOW ROAD SURVEY STAKE 871' EAST TO THE LOCATION.



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TBPLS# 10021000

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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**

DEFINITIONS  
  
Action 366980

DEFINITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 366980
	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 366980

**QUESTIONS**

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 366980
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b> 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	[30-025-42356] IGLOO 19 STATE #001H
Incident Facility	Unavailable.

<b>Determination of Reporting Requirements</b> 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	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
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 ANY 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Gas Plant
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b> Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	74
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) 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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.



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QUESTIONS, Page 2  
  
Action 366980

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 366980
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/23/2024
Time vent or flare was discovered or commenced	07:00 AM
Time vent or flare was terminated	02:15 PM
Cumulative hours during this event	7

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance   Gas Plant   Natural Gas Flared   Released: 130 Mcf   Recovered: 0 Mcf   Lost: 130 Mcf.
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	[24650] TARGA MIDSTREAM SERVICES LLC
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	The downstream operator had the gas plant shut down.
Steps taken to limit the duration and magnitude of vent or flare	Flare minimal mcf
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	The downstream operator had gas plant shut down.



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ACKNOWLEDGMENTS  
  
Action 366980

ACKNOWLEDGMENTS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 366980
	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 366980

CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 366980
	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.	7/24/2024