



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print

01/13/2023

Operator Name CAZA OPERATING LLC	Well Name IGLOO 19-24 STATE FED COM	Well Number 15H	US Well Number 3002546602
SHL NWSE Sec 19 20S 35E	County LEA	State NM	Lease Number(s) NMNM020979, NMNM20979, NMNM20979
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name IGLOO 19-24 STATE FED COM	Well Pad Number 13H	ID 10400040687

Section 1 - General

Well Completion Report Id:	Submission Date: 04-07-2021	
BLM Office: Carlsbad Field Office	User: STEVE MORRIS	Title: Engineer
Federal/Indian: FEDERAL	Lease Number: NMNM020979	Lease Acres: 320
Agreement in place?: NO	Federal or Indian Agreement:	
Agreement Number:	Agreement Name:	
Keep this Well Completion Report confidential?:		
APD Operator: CAZA OPERATING LLC		

Section 2 - Well

Field/Pool or Exploratory:	Pool Name: LEA BONE SPRING	Field Name: LEA
Well Type: OIL WELL		
Spud Date: 12-24-2019		
Date Total Measured Depth Reached: 01-27-2020		
Drill & Abandon or Ready To Produce: READY TO		
Well Class: HORIZONTAL		

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
---	ALLUVIUM		3693	0	0	NONE	
RUSTLER	ANHYDRITE		1876	1817	1817	USEABLE WATER	

Operator Name CAZA OPERATING LLC	Well Name IGLOO 19-24 STATE FED COM	Well Number 15H	US Well Number 3002546602
SHL NWSE Sec 19 20S 35E	County LEA	State NM	Lease Number(s) NMNM020979, NMNM20979, NMNM20979
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name IGLOO 19- 24 STATE FED COM	Well Pad Number 13H	ID 10400040687

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
TOP SALT	SALT		1677	2016	2016	NONE	
BASE OF SALT	SALT		266	3427	3427	NONE	
YATES	DOLOMITE, LIMESTONE		-50	3743	3743	NONE	
CAPITAN REEF	LIMESTONE		-332	4025	4025	USEABLE WATER	
DELAWARE	LIMESTONE, SANDSTONE		-1859	5552	5552	NONE	
CHERRY CANYON	LIMESTONE, SANDSTONE		-2071	5764	5764	NATURAL GAS, OIL	
BRUSHY CANYON	LIMESTONE, SANDSTONE		-3129	6822	6822	NATURAL GAS, OIL	
BONE SPRINGS	LIMESTONE, SANDSTONE		-4843	8536	8544	NONE	
BONE SPRING 1ST	LIMESTONE, SANDSTONE		-6105	9798	9908	NATURAL GAS, OIL	

Completion and Completed

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM20979	NMNM20979	NEW		POW	02-03-2021	02-03-2021	BONE SPRING 1ST	10431	18030	Y	.42	1576	OPEN

Operator Name CAZA OPERATING LLC	Well Name IGLOO 19-24 STATE FED COM	Well Number 15H	US Well Number 3002546602
SHL NWSE Sec 19 20S 35E	County LEA	State NM	Lease Number(s) NMNM020979, NMNM20979, NMNM20979
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name IGLOO 19- 24 STATE FED COM	Well Pad Number 13H	ID 10400040687

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Total Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	309130		20,480,075 lbs sand

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	S1	1	40.7	0.84	GAS LIFT		SOLD	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1	02/25/2021	24	641	1748	1483	2726	24/64	850		1240

Operator Name CAZA OPERATING LLC	Well Name IGLOO 19-24 STATE FED COM	Well Number 15H	US Well Number 3002546602
SHL NWSE Sec 19 20S 35E	County LEA	State NM	Lease Number(s) NMNM020979, NMNM20979, NMNM20979
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name IGLOO 19- 24 STATE FED COM	Well Pad Number 13H	ID 10400040687

Well Location

Survey Type: RECTANGULAR

Survey Number: 33495

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum:

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.5556916	-103.4957142	3693	FEE	FEE				1570	FSL	2365	FEL	20S	35E	19	NWSE
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.556079	-103.495195	-5719	STATE	STATE				1788	FSL	2207	FEL	20S	35E	19	NWSE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.556083	-103.496601	-6183	FEDERAL	NMNM 20979				1710	FSL	0	FEL	20S	35E	24	NWSE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.5560348	-103.4969979	-6181	STATE	STATE				1696	FSL	2519	FEL	20S	35E	19	NWSE
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.5559237	-103.5219126	-5905	FEDERAL	NMNM 20979				1663	FSL	121	FWL	20S	34E	24	NWSW
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.5559158	-103.5222556	-5906	FEDERAL	NMNM 123525	9598	18101		1660	FSL	21	FWL	20S	34E	24	NWSW

Operator Name CAZA OPERATING LLC	Well Name IGLOO 19-24 STATE FED COM	Well Number 15H	US Well Number 3002546602
SHL NWSE Sec 19 20S 35E	County LEA	State NM	Lease Number(s) NMNM020979, NMNM20979, NMNM20979
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name IGLOO 19-24 STATE FED COM	Well Pad Number 13H	ID 10400040687

Casing, Liner and Tubing

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	CONDUCTOR	26	0	120	20.0	94	H-40		SLIM LINE HIGH PERFORMANCE		
00	SURFACE	17.5	0	2021	13.375	54.5	J-55		ST&C		
00	INTERMEDIATE	12.25	0	5245	9.625	40	HCL-80		BUTT		
00	PRODUCTION	8.75	0	18197	5.5	20	P-110		BUTT		

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield (cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	CONDUCTOR		Class C	100	1.93	0					34.4
00	SURFACE		Class C	990	1.97	0	Class C	315	1.32	1721	421.4
00	INTERMEDIATE	3894	Class C	365	2.36	4520	Class C	210	1.32	4745	1821.1
00	INTERMEDIATE	3894	Class C	1600	2.36	0	Class C	150	1.32	3794	1821.1
00	PRODUCTION		Class H	950	3.39	0	Class H	1580	1.33	10300	947.8

Operator Name CAZA OPERATING LLC	Well Name IGLOO 19-24 STATE FED COM	Well Number 15H	US Well Number 3002546602
SHL NWSE Sec 19 20S 35E	County LEA	State NM	Lease Number(s) NMNM020979, NMNM20979, NMNM20979
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name IGLOO 19- 24 STATE FED COM	Well Pad Number 13H	ID 10400040687

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	2.875		9177	9166	6	L-80		OTHER	EUE

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
00	YES	NO	NO	YES	YES	YES

Operator Name CAZA OPERATING LLC	Well Name IGLOO 19-24 STATE FED COM	Well Number 15H	US Well Number 3002546602
SHL NWSE Sec 19 20S 35E	County LEA	State NM	Lease Number(s) NMNM020979, NMNM20979, NMNM20979
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name IGLOO 19-24 STATE FED COM	Well Pad Number 13H	ID 10400040687

Operator

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: CAZA OPERATING LLC

Signed By: STEVE MORRIS

Title: Engineer

Signed on: 08/15/2022

Street Address: 14102 WCR 173

City: ODESSA

State: TX

Zip: 79766

Phone: (985)415-9729

Email address: steve.morris@morcoreengineering.com

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Extension:

Email address:

Attachments

Igloo_19_24_State_Fed_Com_15H___WBS___Completed_20210407042410.pdf

Igloo_19_24_State_Fed_Com_15H___Final_Survey_Report_signed_20210407042424.pdf

Igloo_19_24_State_Fed_Com_15H_MD_5in_20210407042604.pdf

200201_Igloo_19_24_State_Fed_Com___15H_5IN_20220815212611.pdf

IGLOO_19_24_STATE_FED_COM_15H_C_102_As_Drilled_signed_20220815212851.pdf

Operator Name CAZA OPERATING LLC	Well Name IGLOO 19-24 STATE FED COM	Well Number 15H	US Well Number 3002546602
SHL NWSE Sec 19 20S 35E	County LEA	State NM	Lease Number(s) NMNM020979, NMNM20979, NMNM20979
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name IGLOO 19- 24 STATE FED COM	Well Pad Number 13H	ID 10400040687

Attachments

Igloo_19_24_State_Fed_Com_15H___WBS___Completed_20210407042410.pdf

Igloo_19_24_State_Fed_Com_15H___Final_Survey_Report_signed_20210407042424.pdf

Igloo_19_24_State_Fed_Com_15H_MD_5in_20210407042604.pdf

200201_Igloo_19_24_State_Fed_Com___15H_5IN_20220815212611.pdf

IGLOO_19_24_STATE_FED_COM_15H_C_102_As_Drilled_signed_20220815212851.pdf

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 175980

ACKNOWLEDGMENTS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 175980
	Action Type: [C-105] Well (Re)Completion (C-105)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
<input type="checkbox"/>	I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 175980

CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 175980
	Action Type: [C-105] Well (Re)Completion (C-105)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	1/17/2025