



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 12H	US Well Number 3002546411
SHL SWSE 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 null	Well Pad Number null	ID 10400025853

Section 1 - General

Well Completion Report Id:	Submission Date: 03-31-2021	
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: BONE SPRING	Field Name: LEA
Well Type: OIL WELL		
Spud Date: 10-05-2019		
Date Total Measured Depth Reached: 11-18-2019		
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
QUATERNARY	ALLUVIUM		3690	0	0	USEABLE WATER	
RUSTLER	ANHYDRITE		1833	1857	1857	NONE	

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Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
TOP SALT	SALT		1634	2056	2056	NONE	
BASE OF SALT	SALT		223	3467	3467	NONE	
YATES	DOLOMITE, LIMESTONE		-93	3783	3783	NONE	
CAPITAN REEF	DOLOMITE, LIMESTONE		-375	4065	4065	USEABLE WATER	
DELAWARE	LIMESTONE, SANDSTONE		-1902	5592	5592	NATURAL GAS, OIL	
CHERRY CANYON	LIMESTONE, SANDSTONE		-2114	5804	5804	NATURAL GAS, OIL	
BRUSHY CANYON	LIMESTONE, SANDSTONE		-3172	6862	6862	NATURAL GAS, OIL	
BONE SPRING	LIMESTONE, SANDSTONE		-4886	8576	8576	NATURAL GAS, OIL	
BONE SPRING 1ST	LIMESTONE, SANDSTONE		-6437	10127	10127	NATURAL GAS, OIL	
BONE SPRING 2ND	LIMESTONE, SANDSTONE		-6808	10498	10506	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
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00	S1	1	NMNM20979	NMNM20979	NEW		POW	12-12-2020	02-10-2021	BONE SPRING 2ND	11238	18673	Y	.42	1576	OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Tottle Fluid (bbbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	389317		Sand 21,297,090 lbs

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	37.6	0.83	GAS LIFT		SOLD	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbbls)	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)

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00	S1	1	02/20/2021	24	708	1253	453	1769	24/64	650		1200

Well Location

Survey Type: RECTANGULAR

Survey Number: 33025

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	32.552477	-103.496197	3695	STATE	STATE				401	FSL	2514	FEL	20S	35E	19	SWSE
KOP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.5523141	-103.4971094	-7140	STATE	STATE				387	FSL	2514	FEL	20S	35E	19	SWSE
PPP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.5524379	-103.4971094	-7140	STATE	STATE				387	FSL	2514	FWL	20S	35E	19	SESW
PPP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.552463	-103.505171	-7034	FEDERAL	NMNM 20979				390	FSL	0	FEL	20S	34E	24	SWSW
EXIT Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.5524056	-103.5213014	-6750	FEDERAL	NMNM 123525				383	FSL	316	FWL	20S	34E	24	SWSW

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BHL Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.5524056	-103.5213014	-6750	FEDERAL	NMNM 123525				383	FSL	316	FWL	20S	34E	24	SWSW

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	1885	13.375	54.5	J-55		ST&C		
00	INTERMEDIATE	12.25	0	5214	9.625	40	HCL-80		BUTT		
00	PRODUCTION	8.75	0	18659	5.5	17	P-110		BUTT		

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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					
00	SURFACE		Class C	1066	1.93	0	Class C	166	1.34	1700	
00	INTERMEDIATE	3900	Class C	475	2.13	3900	Class C	220	1.33	5042	
00	PRODUCTION		Class H	1630	2.38	0	Class C	1930	1.62	10200	

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									

Logs

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

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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: 02/22/2022

Street Address: 14102 WCR 173

City: ODESSA

State: TX

Zip: 79766

Phone: (985)415-9729

Email address: steve.morris@morcoreengineering.com

Field

Representative Name: STEVE MORRIS

Street Address: 200 N. LORRAINE ST 1550

City: MIDLAND

State: TX

Zip: 79701

Phone: (985)415-9729

Extension:

Email address: steve.morris@morcoreengineering.com

Attachments

Igloo_19_24_State_Fed_Com_12H_WBS___Completed_20210331033259.pdf

191122_Igloo_19_24_State_Fed_Com_12H_5IN_Final_20210331033310.pdf

Igloo_19_24_State_Fed_Com_12H___Final_Survey_Report_20210331033310.pdf

Igloo_19_24_12H_State_Fed_Com_MD_5_20210331033330.pdf

IGLOO_19_24_STATE_FED_COM_12H___C_102___As_Drilled_signed_20220222152444.pdf

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Igloo_19_24_State_Fed_Com_12H_WBS___Completed_20210331033259.pdf

191122_Igloo_19_24_State_Fed_Com_12H_5IN_Final_20210331033310.pdf

Igloo_19_24_State_Fed_Com_12H___Final_Survey_Report_20210331033310.pdf

Igloo_19_24_12H_State_Fed_Com_MD_5_20210331033330.pdf

IGLOO_19_24_STATE_FED_COM_12H___C_102___As_Drilled_signed_20220222152444.pdf

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 175978

ACKNOWLEDGMENTS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 175978
	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.

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CONDITIONS

Action 175978

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	Action Number: 175978
	Action Type: [C-105] Well (Re)Completion (C-105)

CONDITIONS

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