Sundry Print Report

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

Well Name: IGLOO 19-18 STATE FED Well Location: T20S / R35E / SEC 19 /

COM

SESE / 32.5516615 / -103.490869

County or Parish/State: LEA /

Well Number: 11H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM119759

Unit or CA Name:

Unit or CA Number:

US Well Number: 300255038900X1

Well Status: Drilling Well

Operator: CAZA OPERATING

LLC

Accepted for record – NMOCD gc3/2/2023

Digitally signed by LONG VO LONG VO Date: 2022.11.21 11:29:50 -06'00'

Notice of Intent

Sundry ID: 2703876

Type of Submission: Notice of Intent

Date Sundry Submitted: 11/20/2022

Date proposed operation will begin: 11/21/2022

Type of Action: Plug and Abandonment

Time Sundry Submitted: 12:25

Procedure Description: Caza proposes to P&A the well. Attached is the current WBS and proposed WBS. The intermediate casing is cemented in place. The rate hole has a cement plug. The intermediate casing has cement inside up to 3110'. A CIBP will be set at 2100' and ' of cement placed on the CIBP. A ' cement plug will be placed from surface down to 100'MD. Cut off casing and conductor 4' below ground and place a marker.

Surface Disturbance

Is any additional surface disturbance proposed?: No

Approval Subject to

General Requirements and

Special Stipulations

Attached

NOI Attachments

Procedure Description

Igloo_19_18_State_Fed_Com_11H__WBS___Proposed_20221120122015.pdf

Igloo_19_18_State_Fed_Com_11H___WBS___Current_20221120122011.pdf

eived by OCD: 11/22/2022 8:58:02 AM Well Name: IGLOO 19-18 STATE FED Well Location: T20S / R35E / SEC 19 /

COM

SESE / 32.5516615 / -103.490869

County or Parish/State: LEA/ 2 of

Well Number: 11H Type of Well: OIL WELL **Allottee or Tribe Name:**

Unit or CA Number: Lease Number: NMNM119759 **Unit or CA Name:**

US Well Number: 300255038900X1 Well Status: Drilling Well **Operator: CAZA OPERATING**

LLC

Operator

I certify that the foregoing is true and correct. 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 to 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 Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: STEVE MORRIS Signed on: NOV 20, 2022 12:19 PM

Name: CAZA OPERATING LLC

Title: Engineer

Street Address: 14102 WCR 173

City: ODESSA State: TX

Phone: (985) 415-9729

Email address: steve.morris@morcorengineering.com

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

PLUG AND ABANDONMENT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Caza Operating LLC
LEASE NO.:	NMNM119759
WELL NAME & NO.:	Igloo 19-18 State Fed Com 11H
US Well Number:	3002550389
LOCATION:	Section 19, T.20 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico
Sundry ID:	2703876
Karst:	
Potash:	□Secretary □R111P
Special Area:	□Prairie Chicken ⊠Capitan Reef

Caza proposes to P&A the well. Attached is the current WBS and proposed WBS. The intermediate casing is cemented in place. The rate hole has a cement plug. The intermediate casing has cement inside up to 3110'.

- 1. Tag TOC at 3110'.
- 2. Set CIBP at 2198'. Spot cement from 2198' to 2065'. Leak Test CIBP at 500 psi for 30 minutes, no more than 10% pressure drop. If leak test fails, WOC and Tag, 43 sxs Class C. (Shoe, Top of Salt)
- 3. Spot cement from 1170' to 1058'. WOC and Tag, 36 sxs Class C. (Squeezed perf)
- 4. Spot cement from 100' to surface. Verify at surface.

Cut off casing and conductor 4' below ground and place a marker.

Approval Subject to General Requirements and Special Stipulations Attached

- No more than 3000 feet between cement plugs in cased hole.
- Wait on Cement and Tag Top of Cement Requirement:
 - 1. Shoe, Top of Salt, Base of Salt, DV tool, Perforate and Squeeze, Open Perforation.
 - 2. Formation plug is optional if a solid base is established and confirmed.

Received by OCD: 1	1/22/2022 8:58:02 AM	
(T)(D)		TOC @ 0'
(TVD) TOC @ 0		TOC @ 0' Cmt Plug @ 0' TOC @ 1,150'
TOC @ 1,848 2,000 CIBP @ 2,100 17.500" @ 2,200		Cmt Plug @ 1,900' 13.375" @ 2,148'
3,000 TOC @ 3,314' DVT, D/O @ 3,414'		Cmt Plug @ 3,110' TOC @ 3,414' Pkr @ 3,416'
4,000		
TOC @ 4,660		9.625" @ 5,160°
12.250" @ 5,667 6,000	App Gen Spe	roval Subject to eral Requirements and cial Stipulations ched
7,000		
8,000		
9,000		
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Page 1 of 2 www.WellShadow.com

Field Name	9			Leas	se Nan	ne		1	Well No.	Cou	inty		State)	API N	0.	Page 5 Petrole
East Marath	hon Roa	d		Igloc	19-18	State Fe	d Com		11H	Lea			New	Mexico	30025	50389	
Version	Ver	sion Tag	J					Į.				Spud Da	te	Comp. Date	e GL (ft)	KB (ft)
	1 Pro	osed														3,704.0	3,7
Section	Towns	hip/Bloc	ck		Ran	ge/Surve	у		Dist. N/S (fi) N/S L	ine	Dist. E/W	/ (ft)	E/W Line	Footage	From	
19	20S				35E				1	30 FSL			871	FEL	SECTION	1	
Operator	-						Well St	atus			Lati	tude		Longitude	Į	Prop l	Num
Caza Opera	ating						Propose	ed			32.5	5187949		-103.49086	7	31378	0
OGRID					Pool N	ame and	Code		Well	Туре	•			Dedica	ated Acres	8	
249099				I	Lea Bo	ne Sprin	g; South	(37580)									
ast Updat	ted				Prep	ared By						Update	d By				
11/20/2022	: 12:17 F	M			Stev	e Morris						Steve M	orris				
Additional	Informa	tion															
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	Surface					13.375			BTC		0	2,14					
		diate Ca	sing			9.625	40.00	HCL80	BTC		0	5,16	0				
Casing Cer	ment Su																
C Date	Sx	(ft3/s	k) (1	/ol. ft3)	Cs O.D.	(in) (f	Top VID ft)	Bottom (MD ft)		Descripti					Commen	its	
	1,3			2,224		3.375	0	1,848					circula	te 319sx			
			.33	645		3.375	1,848	2,148				Class C					
				1,008		9.625	0	1,150					Circula	te 186sx			
	2,6			5,876		9.625	1,150	3,314				POZ C					
			.33	206		9.625	3,314	3,414				Class C					
	28		.26	633		9.625	3,414	4,660				POZ C					
Foods (Post			.33	299		9.625	4,660	5,160	7			Class C					
Tools/Prob	nems Si	-							I Desti	-		41				4-	
Date		Tool T	ype			.D. n)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	De	scrip	tion			Comme	nts	
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	D	/ tool (dr	illed o	ut)		9.625	0.000	3,414	4 (
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Interval Comments

Phasing (deg)

60

Bottom (MD ft)

1,120

SPF

6

Shots

Top (MD ft)

1119

Receive	ed by OCD: 11	//22/2022 8:58	8:02 AM	
MD	ed by OCD: 11 TOC@0			
1,000		× × × × × × × × × × × × × × × × × × ×	×	TOC @ 0' Squeezed Perfs 1,119-1,120'
2,000	13.375" @ 2,148			TOC @ 1,848'
3,000	Cmt Plug @ 3,110° TOC @ 3,414' Pkr @ 3,416'		⊠ .	TOC @ 3,314' DVT, D/O @ 3,414'
4,000				TOC @ 4,660'
5,000	9.625" @ 5,160			12.250" @ 5,667'
6,000				
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Field Name	ated:	1 17			ease					Wa	Petroleum
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www.WellShadow.com Page 1 of 2



(MD f		(MD ft)	,120	6		6	60										
Тор		Bottom	5	SPF	Shots	Pha	sing (deg)				In	terva	I Comments	<u> </u>			—
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	n Summai	-						1									
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Date			Тор	Botto						C	Commen	s					
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	DV	tool (drilled	d out)		9.625	0.000	3,414										
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<u></u>	225		299		9.625	4,660	5,160			(Class C						
	280		633		9.625	3,414	4,660		50		POZ C						
	155		206		9.625	3,314	3,414				Class C						
	2,600		5,876		9.625	1,150	3,314		50		POZ C						
	446		1,008		9.625	0	1,150					ircula	ite 186sx				
	485		645		3.375	1,848	2,148				Class C						
	1,390		2,224		3.375	0	1,848					Circula	ate 319sx				
	Sx	(ft3/sk)	(ft3)	O.D.	(in) (MD ft)	(MD ft)										
Date		Yield	Vol.	Cs	g.	Тор	Bottom	De	escription	n				Comme	nts		
asing Ce	ment Sun		,							1	-,	1					
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Date	D	escription	1	No.	O.D. (in)		Grade	Coupling	Top		Bottom			Comn	nents		
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OGRID					lame and		(07500)	Well T	ype				Dedica	ated Acre	es		
Caza Oper	ating					Current	:	I =		32.5	5187949		-103.49086		31378	0	
Operator						Well St					ude		Longitude	_	Prop		
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	1 Curre														3,704.0		3,7
ersion		on Tag									Spud Da	ite	Comp. Date	e GL (f	t)	KB (ft)
ast Marat	hon Road		Iglo	o 19-18	State Fe	ed Com	1	1H	Lea			New	Mexico	3002	550389		
	е		Lea	se Nar	ne		V	Vell No.	Count	ιy		State	е	API	NO.		

www.WellShadow.com Page 2 of 2 Sundry ID 2703876

Sullary ID	2/030/6				T	
Plug Type	Тор	Bottom	Length	Tag	Sacks	Notes
						Spot cement from
						100' to surface.
Surface Plug	0.00	100.00	100.00	Tag/Verify	33.00	Verify at surface.
				If solid		
				base no		
				need to		
				Tag		
				(CIBP		
				present		
				and/or		
				Mechanic		
				al Integrity		
				Test), If		
				Perf &		
				Sqz then		
				Tag, Leak		
				Test all		
				CIBP if no		0
				Open Perforatio		Spot cement from 1170' to 1058'.
D. v.f. © 4400	4050.00	4470.00	444.00		26.00	WOC and Tag.
Perf @ 1120	1058.80		111.20	Tag/Verify	36.00	WOC and rag.
Top of Salt @ 2136	2064.64	2186.00	121.36	rag/verily		Set CIBP at 2198'.
						Spot cement from
						2198' to 2065'. Leak
						test CIBP at 500 psi
						for 30 minutes, no
						more than 10%
						pressure drop. If
						leak test fails, WOC
Shoe Plug	2076.52	2198.00	121.48	Tag/Verify	43.00	and Tag.
DV tool plug	3329.86			Tag/Verify		Tag TOC at 3110'.
Base of Salt @ 3503	3417.97	3553.00		Tag/Verify		
Yates @ 3840	3751.60	3890.00		base no		
Capitan Reef @ 4806	4707.94	4856.00		base no		
Shoe Plug	5560.33	5717.00	156.67	Tag/Verify		

No more than 2000' is to be allowed between plugs in open hole, and no more than 3000' between plugs in cased hole.

Class H >7500'

Class C<7500'

Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions, but not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

Medium, Secretary: Top of salt to surface If no salt take the deepest fresh water or Karst Depth

High, Critical: Bottom of Karst to surface or Deepest fresh water, whichever is greater

R111P: 50 Feet from Base of Salt to surface.

Class C: 1.32 ft^3/sx Class H: 1.06 ft^3/sx

Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected.

Cave Karst/Potash Cement Low

Shoe @ 2148.00

Shoe @ 5667.00

DV Tool @ 3414.00

BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

Permanent Abandonment of Federal Wells Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within <u>ninety (90)</u> days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

- 2. <u>Notification:</u> Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981.
- 3. <u>Blowout Preventers</u>: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.
- 4. <u>Mud Requirement:</u> Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.
- 5. <u>Cement Requirement</u>: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. <u>Dry Hole Marker</u>: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off. Upon the plugging and subsequent abandonment of wells that are located in an active drilling PAD, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ½ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

- 7. <u>Subsequent Plugging Reporting:</u> Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**
- 8. <u>Trash:</u> All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office 620 E. Greene St. Carlsbad, New Mexico 88220-6292 www.blm.gov/nm



In Reply Refer To: 1310

Reclamation Objectives and Procedures

Reclamation Objective: Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo "interim" reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its predisturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any/all contaminants, scrap/trash, equipment, pipelines and powerlines (Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don't wait till the last day and try to get them to remove infrastructure). Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip (across the slope and seed as specified in the original APD COA. This will apply to well pads, facilities, and access roads. Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

- 1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.
- 2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.
- 3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.
- 4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you

have issues or concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.

- 5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.
- 6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.
- 7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos Supervisory Petroleum Engineering Tech/Environmental Protection Specialist 575-234-5909 (Office), 575-361-2648 (Cell)

Arthur Arias Environmental Protection Specialist 575-234-6230

Crisha Morgan Environmental Protection Specialist 575-234-5987

Jose Martinez-Colon Environmental Protection Specialist 575-234-5951

Mark Mattozzi Environmental Protection Specialist 575-234-5713

Robert Duenas Environmental Protection Specialist 575-234-2229

Trishia Bad Bear, Hobbs Field Station Natural Resource Specialist 575-393-3612

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

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**

COMMENTS

Action 160716

COMMENTS

Operator:	OGRID:			
CAZA OPERATING, LLC	249099			
200 N Loraine St	Action Number:			
Midland, TX 79701	160716			
	Action Type:			
	[C-103] NOI Plug & Abandon (C-103F)			

COMMENTS

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	3/3/2023

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Created By		Condition Date
gcordero	None	3/2/2023