

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
OCD Hobbs

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No. NMNM20979
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. IGLOO 19-24 STATE FED COM 12H
9. API Well No. 30-025-46411-00-X1
10. Field and Pool or Exploratory Area LEA
11. County or Parish, State LEA COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator CAZA OPERATING LLC Contact: STEVE MORRIS E-Mail: steve.morris@mojoenergy.com	
3a. Address 200 NORTH LORRAINE SUITE 1550 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 403-923-9750
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T20S R35E SWSE 400FSL 2514FEL 32.552479 N Lat, 103.496193 W Lon	

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Drilling Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

10/8/2019 - Drilled to 1886' MD and ran 13.375" J55 54.5# STC casing. Cement with 990sx 12.9ppg 1.97 yield Class C + 4% Gel + 2% CaCl2 + 0.125% Defoamer Lead. 310sx 14.8ppg 1.32 yield Class C neat Tail. Circ 242sx to surface. Test casing to 800psi for 30 mins. Test Good.

HOBBS OCD
DEC 05 2019
RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #493429 verified by the BLM Well Information System For CAZA OPERATING LLC, sent to the Hobbs Committed to AFMS for processing by PRISCILLA PEREZ on 11/22/2019 (20PP0454SE)	
Name (Printed/Typed) STEVE MORRIS	Title CONTRACT ENGINEER
Signature (Electronic Submission)	Date 11/22/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title Accepted for Record	Date NOV 22 2019
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office Jonathon Shepard Carlsbad Field Office	

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.

(Instructions on page 2) **** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

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PAR  FIVE
ENERGY SERVICES LLC

DESIGN - EXECUTE - EVALUATE - REPORT

0

CAZA OPERATING

IGLOO 19 24 STATE FED COM 12H

LEA County, NEW MEXICO

PRIMARY PUMP: 2040
SECONDARY PUMP: 2002

Prepared By: DANIEL MORENO

SERVICE SUPERVISOR

ARTESIA DISTRICT

1-575-748-8610

10/7/2019

WELL SUMMARY



COMPANY NAME: CAZA OPERATING	DATE: 10/7/2019	
LEASE NAME: IGLOO 19 24 STATE FED COM	OPERATOR NAME:	
WELL NUMBER: 12H	TICKET NUMBER: 9979	
API NUMBER:	AFE NUMBER:	
SECTION: 19	TOWNSHIP: 20S	RANGE: 35E
COUNTY: LEA	STATE: NEW MEXICO	
RIG NAME: NABORS M51	COMPANY REP:	PHONE#:

Take 82 east to 360, turn right on 360 and go to 62-180, turn left on 62-180 and go to Marathon road, turn right on Marathon and go 5.5 miles, turn left go 1.5 miles to location. Nabors M51

UPDATED BY DAMASIO 9-30-19

WEAR PROPER PPE

TEST LINES
PUMP 20 BBLs GELLED WATER
PUMP 990 SKS LEAD @ 12.9
PUMP 310 TAIL @ 14.8
SHUT DOWN
DROP PLUG
DISPLACE WELL

WELL SUMMARY



WELL /CASING DATA

JOB TYPE:	SURFACE	HOLE SIZE:	17.5
TVD:	1886	PREVIOUS CASING SIZE:	20
PREVIOUS CASING LB/FT:	94	PREVIOUS CASING DEPTH:	120
CASING SIZE:	13 3/8		
CASING LB/FT:	54.5	CASING GRADE:	J55
FLOAT COLLAR DEPTH:	1844.04	SHOE JOINT LENGTH:	44.96
DV TOOL DEPTH:		SECOND DV TOOL DEPTH:	
TOTAL DEPTH:	1886	TOTAL CASING :	1889

TUBULAR DATA

TBG/D.P. SIZE:		TBG/D.P. DEPTH:	
TBG/D.P. LB/FT:		TOOL DEPTH:	
PACKER OR RETAINER:		PERF/HOLE DEPTH:	

SURFACE EQUIPMENT

CEMENT HEAD SIZE:	13 3/8	QUICK CONNECT SIZE:	13 3/8
DRILL PIN SIZE/TYPE:		THREAD:	8RD
TUBING SWEDGE SIZE:		TAKE 2 -2 INCH REGULAR TUBING SWEDGES	

CHEMICALS NEEDED

200 LBS SUGAR , 110 LBS PF424 GELL

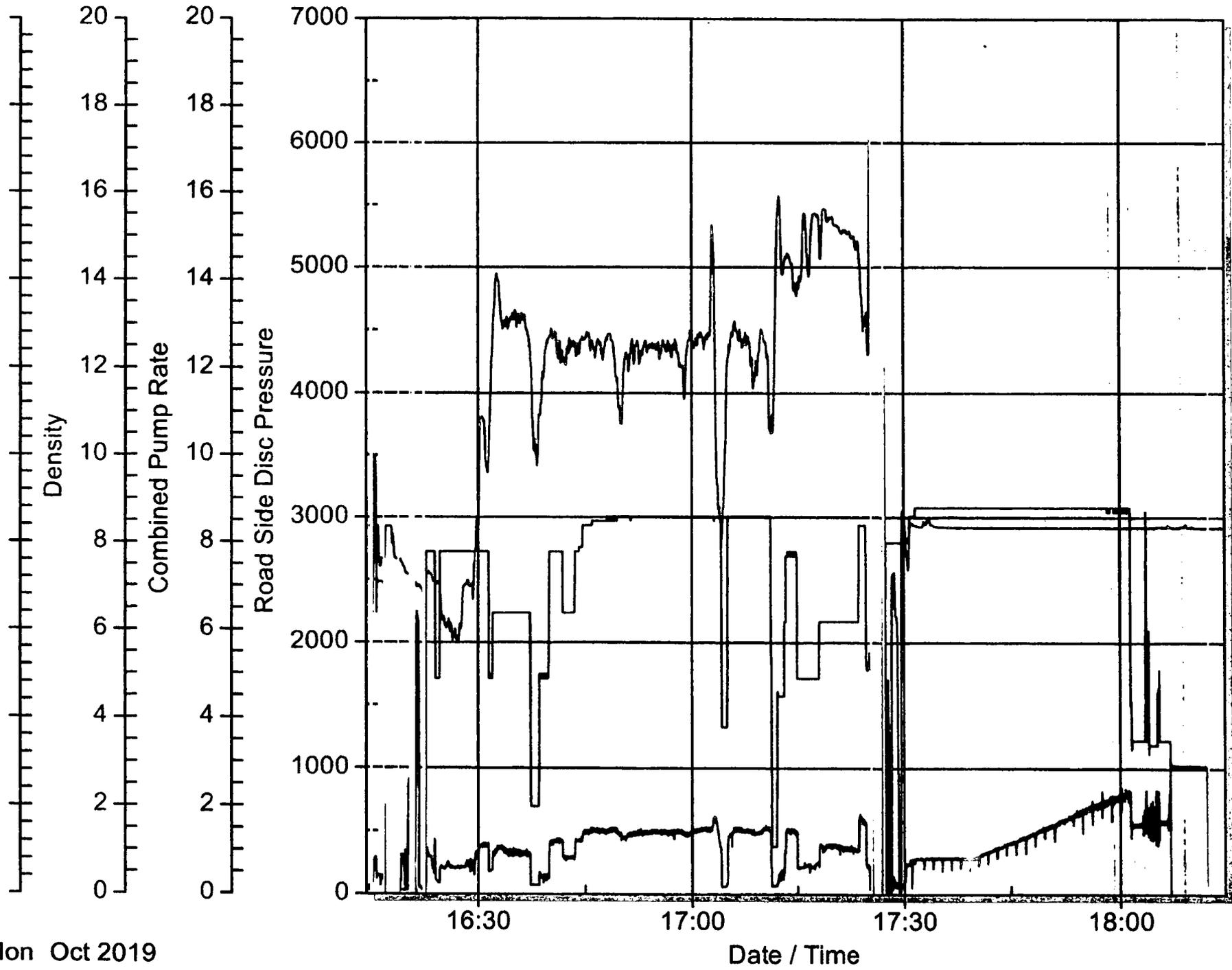
EQUIPMENT

SUPERVISOR 1:	DANIEL MORENO	FIELD REPRESENTATIVE:	
SUPERVISOR 2:	Travis Kelsey	SAFETY REPRESENTATIVE:	
PUMP OPERATOR:	Joshua Casillas	UNIT NUMBER:	1036-2040
E/O:	Joseph Casillas	UNIT NUMBER:	1022-2002
E/O:	Isaac Hobbs	UNIT NUMBER:	1014-2063
E/O:		UNIT NUMBER:	1023-2028
E/O:		UNIT NUMBER:	
E/O:		UNIT NUMBER:	

FLUID DATA

1ST SLURRY:	C+4%PF20(Bentonite Gel)+2%PF1(Calcum Chloride)+0.125#/skPF29(Celloflake)+0.4#/skPF45(Defoamer)						
DENSITY:	12.9	YIELD:	1.97	MIX H2O:	10.841	SACKS:	990
2ND SLURRY:	C NEAT						
DENSITY:	14.8	YIELD:	1.32	MIX H2O:	6.304	SACKS:	310
3RD SLURRY:							
DENSITY:		YIELD:		MIX H2O:		SACKS:	
4TH SLURRY:							
DENSITY:		YIELD:		MIX H2O:		SACKS:	
5TH SLURRY							
DENSITY:		YIELD:		MIX H2O:		SACKS:	
6TH SLURRY							
DENSITY:		YIELD:		MIX H2O:		SACKS:	
1st DISPLACEMENT TYPE :	FRESH WATER		1st DISPLACEMENT VOLUME:	285	MUD WEIGHT:	9	
2nd DISPLACEMENT TYPE :			2nd DISPLACEMENT VOLUME:				
3rd DISPLACEMENT TYPE :			3rd DISPLACEMENT VOLUME:				

CAZA-IGLOO-19-24-STATE-FED-C0M-12H-SURFACE



7 Mon Oct 2019

Date / Time



Par Five Energy Services, LLC
 11279 Lovington Hwy
 Artesia, NM
 Phone(575)748-8610 Fax: (575) 748-8625

ART19-11245-01R

Customer: **Caza Operating** MD: **1879** Report Date: **September 30 2015**
 Well Name: **Igloo 19 24 State Fed Com 12H** TVD: **1879** Stage: **Lead**
 County: **Lea** State: **NM** BHST: **95** String: **Surface**
 Rig: **Nabors M15** BHCT: **86** Blend Type: **Pilot Blend**
 Salesman: **Kurt Crowe** Reported By: **Hernandez, Patricia**

Slurry Information

Density: **12.90 ppg** Yield: **1.97 cuft/sk** Mix Fluid: **10.849 gal/sk**

Slurry Composition

Cement Blend		Class C			
Additive	Concentration	Design	Description	Lot Number	
PF-020	4.00% %	BWOB	Bentonite Gel	Bulk	
PF-001	2.00% %	BWOB	Calcium Chloride	364AD1732	
PF-029	0.125 lb/sk	BWOB	Cellophane		
PF-045	0.400 lb/sk	BWOB	Defoamer	201304AC	

Rheology (Average Readings)

Temp	3	6	100	200	300	PV	YP
80 °F	12	16	25.5	29.5	33	11.25	21.75
86 °F	16.5	22	43	47	51	12	39

Thickening Time

Temp	POD	30 Bc	50 Bc	70 Bc	100 Bc	Batch Time
86 °F	2:45	4:09	4:22	4:43		0

Thickening Time does not include batch time.

Free Fluid

Temp	Incl.	ml Collected	Start Time	Stop Time
86 °F	0	0 ml/250	3:03	3:23

UCA Compressive Strength

Temp	50 psi	500 psi	12 hr	24 hr	48 hr	72 hr
95	3:52	12:23	484	834		

Comments



Par Five Energy Services, LLC
 11279 Lovington Hwy
 Artesia, NM
 Phone(575)748-8610 Fax: (575) 748-8625

ART19-11245-02R

Customer: Caza Operating	MD: 1879	Report Date: September 30 2015
Well Name: Igloo 19 24 State Fed Com 12H	TVD: 1879	Stage: Tail
County: Lea State: NM	BHST: 95	String: Surface
Rig: Nabors M15	BHCT: 86	Blend Type: Pilot Blend
Salesman: Kurt Crowe		Reported By: Hernandez, Patricia

Slurry Information

Density: **14.80 ppg** Yield: **1.32 cuft/sk** Mix Fluid: **6.311 gal/sk**

Slurry Composition

Cement Blend **Class C**
 Additive Concentration Design Description Lot Number
 NEAT BWOB

Thermap, (Average readings)

Temp	3	6	100	200	300	PV	YP
80 °F	16.5	22	52.5	64	73	30.75	42.25
86 °F	19	25.5	68.5	82.5	92	35.25	56.75

Thickening Time

Temp	POD	30 Bc	50 Bc	70 Bc	100 Bc	Batch Time
86 °F	2:15	3:19	3:57	4:24		0

Thickening Time does not include batch time.

Free Fluid

Temp	Incl.	ml Collected	Start Time	Stop Time
86 °F	0	0 ml/250	3:06	3:26

QCA Compressive Strength

Temp	50 psi	500 psi	12 hr	24 hr	48 hr	72 hr
95	4:15	7:08	1457	2558		

Comments



ENERGY SERVICES LLC

Field Ticket: TKT00009622

Date of Job: 10/15/2019	District: Artesia	New Well / Old Well: New Well	
Customer: Caza Operating LLC		Well #: Igloo 19 24 State Fed Com 12H	
Address: 200 N Loraine Ste 1550		County: Lea	State: New Mexico
City: Midland	State: Texas	Field:	API#:
Zip Code: 79701	On Road Milas:	Off Road Miles:	
Contact Person/Companyman:		Salesman: Kurt Crowe	
Contact Number:		Service Supervisor:	
Rig Contractor: Nabors	Tractor:	Trailer:	Equipment Operators:
Rig Number: M51			James Carns
Head & Manifold: 9 5/8 Intermediate			Emanuel Sanchez
Job Type: Casing			Alejandro Carranza
			Isaac Hobbs

Description	Quantity	Net Amount
Equipment		
Field Support Work*	1.00	1,750.00
Mileage Charge, all other equipment, per mile* (Mileage on 2 pumps)	120.00	249.48
Cars, pickups, monitoring vehicles round trip* (Mileage on pickup and booster pump)	120.00	166.32
Casing - 2001' - 4000**	1.00	1,200.00
Cement Pump Additional Hours*	25.00	8,229.38
Bulk Unit, per hr on location*	25.00	1,299.38
Standby Cement Pumper, per 4 hrs or fraction of* (Charged in blocks of 4 hours each)	7.00	7,276.50
Centrifugal Pump Services, per job*	1.00	900.00
Drill Pin, rental, per job*	1.00	48.51
Equipment Total		21,119.56
Inventory		
PF900 Dye*	20.00	34.65
PF47 Liquid Antifoam Agent, per gal	30.00	779.63
Inventory Total		814.28
Personnel		
Field Operator*	75.00	2,079.00
Service Supervisor or Field Engineer, per hour*	25.00	866.25
Personnel Total		2,945.25
	Job Total	24,879.09

Ticket Notes

Cement Recipe
Customer will perf and cement to surface

CONTRACT CONDITIONS: (This agreement must be signed before work is commenced).

The undersigned, as authorized agent of the customer, agrees and acknowledges that the services, materials, products and supplies provided for this order shall be subject to the terms and conditions attached including indemnity and waiver of warranty provisions. No additional terms and conditions shall apply to this order.

Signed: _____

Well Owner, Operator, or Agent

Signature:

Terms-Net
Payable on Receipt
Over 30Days, Discount Voids

PAR FIVE

ENERGY SERVICES LLC

File# 11000000622

Emissions Regulation:

PO#: