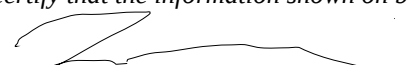


Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised August 1, 2011					
1. WELL API NO. 30-025-46908										
2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN										
3. State Oil & Gas Lease No.										
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)						5. Lease Name or Unit Agreement Name Igloo 19-24 State Fed Com				
						6. Well Number: 14Y				
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator Caza Operating LLC						9. OGRID 249099				
10. Address of Operator 200 N. Lorraine St. #1550, Midland, TX 79701						11. Pool name or Wildcat Lea; Bone Spring				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	O	19	20S	35E		1315	South	2365	East	Lea
BH:	M	24	20S	35E		445	South	100	West	Lea
13. Date Spudded 2/29/2020	14. Date T.D. Reached 4/5/2020		15. Date Rig Released 4/13/2020			16. Date Completed (Ready to Produce) 2/4/2021		17. Elevations (DF and RKB, RT, GR, etc.) 3694' GR		
18. Total Measured Depth of Well 18065			19. Plug Back Measured Depth 18046			20. Was Directional Survey Made? yes		21. Type Electric and Other Logs Run gamma ray		
22. Producing Interval(s), of this completion - Top, Bottom, Name 9513' - 9909'TVD, 1st Bone Spring										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13.375		54.5		1925		17.5		1400sx		
9.625		40		5280		12.25		2330sx		
5.5		20		18065		8.75		2530sx		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET	PACKER SET		
						2.875	10389	10382		
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
10,385 - 18,046', 0.42, 8 shots per foot						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						10,385 - 18,046'		21,077,340bs sand		
28. PRODUCTION										
Date First Production 2/3/2021		Production Method (Flowing, gas lift, pumping - Size and type pump) gas lift				Well Status (Prod. or Shut-in) producing				
Date of Test 2/28/2021	Hours Tested 24	Choke Size 64	Prod'n For Test Period	Oil - Bbl 939	Gas - MCF 944	Water - Bbl. 718	Gas - Oil Ratio 1:1			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 939	Gas - MCF 944	Water - Bbl. 718	Oil Gravity - API - (Corr.) 40.7				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) sold								30. Test Witnessed By Kevin Garrett		
31. List Attachments gamma ray										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____ Longitude _____ NAD 1927 1983 I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature 			Printed Name Steve Morris			Title Contract Engineer			Date 3/25/2021	
E-mail Address steve.morris@morcoreengineering.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T.Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T.Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

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 Road, Aztec, NM 87410
 Phone: (505) 334-6178 Fax: (505) 334-6170
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, NM 87505

Revised August 1, 2011
 Submit one copy to appropriate
 District Office

☐ AMENDED REPORT

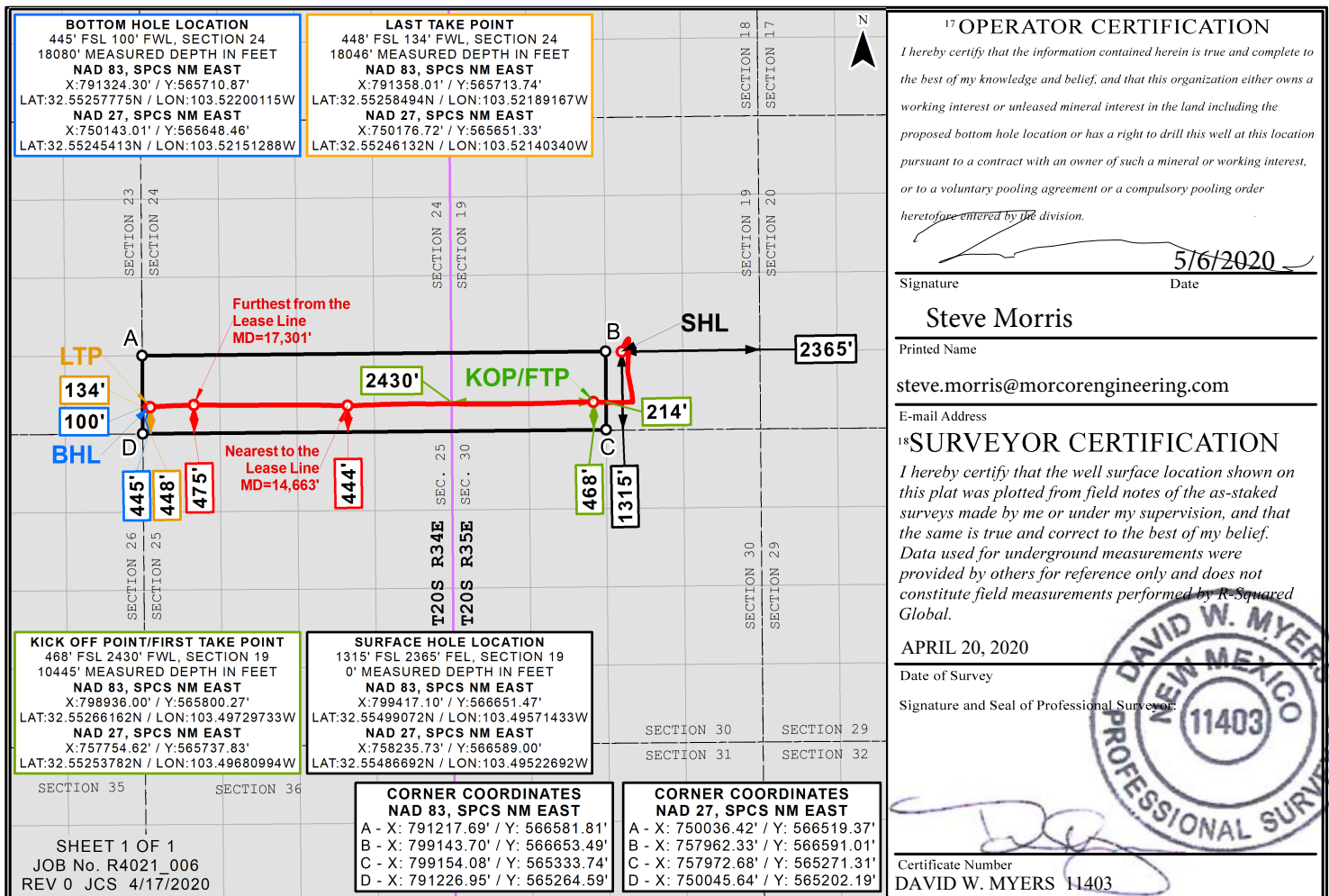
WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-025-46908	² Pool Code 37580	³ Pool Name LEA BONE SPRING; SOUTH
⁴ Property Code 313780	Property Name IGLOO 19-24 STATE FED COM	⁶ Well Number 14Y
⁷ OGRID No. 249099	⁸ Operator Name CAZA OPERATING LLC	⁹ Elevation 3694'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	19	20S	35E		1315	SOUTH	2365	EAST	LEA
¹¹ 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
M	24	20S	34E		445	SOUTH	100	WEST	LEA
¹² Dedicated Acres 240.1	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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.



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99981205 Convergence Angle: 00°26'57.22000"



Caza Operating LLC

Igloo 19-24 State Fed Com 14H

Igloo 19-24 State Fed Com 14H

Igloo 19-24 State Fed Com 14H

Igloo 19-24 State Fed Com 14H

Survey: Igloo 19-24 State Fed Com 14Y

Morcor Standard Plan

15 April, 2020

These surveys are true and accurate to the best of my knowledge.

A handwritten signature in black ink, appearing to read 'Steve Morris'.

Steve Morris



Morcor Engineering

Morcor Standard Plan

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Igloo 19-24 State Fed Com 14H
Project:	Igloo 19-24 State Fed Com 14H	TVD Reference:	WELL @ 3715.0usft (Original Well Elev)
Site:	Igloo 19-24 State Fed Com 14H	MD Reference:	WELL @ 3715.0usft (Original Well Elev)
Well:	Igloo 19-24 State Fed Com 14H	North Reference:	Grid
Wellbore:	Igloo 19-24 State Fed Com 14H	Survey Calculation Method:	Minimum Curvature
Design:	Igloo 19-24 State Fed Com 14Y	Database:	EDM 5000.1 Single User Db

Project	Igloo 19-24 State Fed Com 14H		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Igloo 19-24 State Fed Com 14H		
Site Position:		Northing:	566,651.47 usft
From:	Map	Easting:	799,417.10 usft
Position Uncertainty:	1.0 usft	Slot Radius:	17-1/2 "
		Latitude:	32° 33' 17.967 N
		Longitude:	103° 29' 44.572 W
		Grid Convergence:	0.45 °

Well	Igloo 19-24 State Fed Com 14H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	1.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 33' 17.967 N
		Longitude:	103° 29' 44.572 W
		Ground Level:	3,694.0 usft

Wellbore	Igloo 19-24 State Fed Com 14H		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	8/26/2019	6.55
			Dip Angle (°)
			60.29
			Field Strength (nT)
			47,999

Design	Igloo 19-24 State Fed Com 14Y		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			263.53

Survey Program	Date	4/14/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
96.1	18,080.0	Igloo 19-24 State Fed Com 14Y (Igloo 19-	MWD	MWD - Standard



Morcor Engineering Morcor Standard Plan

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Igloo 19-24 State Fed Com 14H
Project:	Igloo 19-24 State Fed Com 14H	TVD Reference:	WELL @ 3715.0usft (Original Well Elev)
Site:	Igloo 19-24 State Fed Com 14H	MD Reference:	WELL @ 3715.0usft (Original Well Elev)
Well:	Igloo 19-24 State Fed Com 14H	North Reference:	Grid
Wellbore:	Igloo 19-24 State Fed Com 14H	Survey Calculation Method:	Minimum Curvature
Design:	Igloo 19-24 State Fed Com 14Y	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
0.0	0.00	0.00	0.0	-3,715.0	0.0	0.0	799,417.10	566,651.47	0.00	0.00
96.1	0.26	79.70	96.1	-3,618.9	0.0	0.2	799,417.31	566,651.51	-0.22	0.27
188.2	0.68	47.88	188.2	-3,526.8	0.4	0.8	799,417.93	566,651.91	-0.87	0.52
280.3	0.78	63.45	280.3	-3,434.7	1.1	1.8	799,418.89	566,652.56	-1.90	0.24
372.4	0.74	53.93	372.4	-3,342.6	1.7	2.8	799,419.93	566,653.19	-3.01	0.14
464.5	0.76	35.22	464.5	-3,250.5	2.6	3.7	799,420.77	566,654.04	-3.93	0.27
556.6	0.56	17.09	556.6	-3,158.4	3.5	4.2	799,421.25	566,654.97	-4.52	0.31
648.7	0.68	15.13	648.7	-3,066.3	4.5	4.4	799,421.53	566,655.93	-4.90	0.13
740.8	0.89	11.95	740.8	-2,974.2	5.7	4.7	799,421.82	566,657.15	-5.33	0.23
832.9	1.00	13.02	832.8	-2,882.2	7.2	5.0	799,422.15	566,658.64	-5.82	0.12
925.0	1.16	9.84	924.9	-2,790.1	8.9	5.4	799,422.49	566,660.34	-6.35	0.19
1,017.1	1.35	13.71	1,017.0	-2,698.0	10.8	5.8	799,422.90	566,662.31	-6.99	0.23
1,109.2	1.12	9.14	1,109.1	-2,605.9	12.8	6.2	799,423.30	566,664.25	-7.60	0.27
1,201.3	1.12	16.23	1,201.2	-2,513.8	14.5	6.6	799,423.70	566,666.01	-8.19	0.15
1,293.4	1.52	22.41	1,293.2	-2,421.8	16.5	7.3	799,424.41	566,668.00	-9.13	0.46
1,385.5	1.29	18.43	1,385.3	-2,329.7	18.6	8.1	799,425.21	566,670.11	-10.16	0.27
1,477.6	1.39	16.04	1,477.4	-2,237.6	20.7	8.7	799,425.84	566,672.17	-11.02	0.12
1,569.7	1.68	7.06	1,569.5	-2,145.5	23.1	9.2	799,426.32	566,674.58	-11.76	0.41
1,661.8	1.49	14.48	1,661.5	-2,053.5	25.6	9.7	799,426.78	566,677.08	-12.51	0.30
1,753.9	1.26	14.81	1,753.6	-1,961.4	27.8	10.2	799,427.34	566,679.22	-13.30	0.25
1,846.0	1.34	13.86	1,845.7	-1,869.3	29.8	10.8	799,427.86	566,681.25	-14.05	0.09
1,915.0	1.60	14.00	1,914.6	-1,800.4	31.5	11.2	799,428.29	566,682.96	-14.66	0.38
2,009.0	2.40	18.00	2,008.6	-1,706.4	34.6	12.1	799,429.21	566,686.11	-15.94	0.86
2,103.0	3.70	24.00	2,102.5	-1,612.5	39.3	14.0	799,431.05	566,690.75	-18.29	1.42
2,197.0	5.00	20.00	2,196.2	-1,518.8	45.9	16.6	799,433.69	566,697.37	-21.65	1.42
2,291.0	6.10	26.00	2,289.7	-1,425.3	54.2	20.2	799,437.28	566,705.71	-26.16	1.32
2,385.0	7.30	21.00	2,383.1	-1,331.9	64.3	24.5	799,441.61	566,715.77	-31.60	1.42



Morcor Engineering

Morcor Standard Plan

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Igloo 19-24 State Fed Com 14H
Project:	Igloo 19-24 State Fed Com 14H	TVD Reference:	WELL @ 3715.0usft (Original Well Elev)
Site:	Igloo 19-24 State Fed Com 14H	MD Reference:	WELL @ 3715.0usft (Original Well Elev)
Well:	Igloo 19-24 State Fed Com 14H	North Reference:	Grid
Wellbore:	Igloo 19-24 State Fed Com 14H	Survey Calculation Method:	Minimum Curvature
Design:	Igloo 19-24 State Fed Com 14Y	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
2,479.0	8.60	21.00	2,476.2	-1,238.8	76.4	29.2	799,446.27	566,727.91	-37.59	1.38
2,573.0	10.30	24.00	2,568.9	-1,146.1	90.7	35.1	799,452.20	566,742.15	-45.10	1.88
2,602.0	11.18	25.70	2,597.4	-1,117.6	95.6	37.4	799,454.48	566,747.05	-47.91	3.22
2,696.0	12.84	26.82	2,689.3	-1,025.7	113.1	46.0	799,463.14	566,764.59	-58.50	1.78
2,790.0	11.67	25.86	2,781.2	-933.8	131.0	54.9	799,472.00	566,782.46	-69.31	1.26
2,883.0	10.56	26.47	2,872.5	-842.5	147.1	62.8	799,479.90	566,798.56	-78.98	1.20
2,978.0	9.80	26.88	2,966.0	-749.0	162.1	70.3	799,487.44	566,813.56	-88.16	0.80
3,071.0	8.59	26.93	3,057.8	-657.2	175.3	77.1	799,494.16	566,826.81	-96.33	1.30
3,166.0	6.92	32.11	3,151.9	-563.1	186.5	83.3	799,500.42	566,837.99	-103.80	1.90
3,260.0	5.82	37.04	3,245.3	-469.7	195.1	89.2	799,506.30	566,846.59	-110.62	1.31
3,353.0	5.11	42.06	3,337.9	-377.1	202.0	94.8	799,511.91	566,853.43	-116.97	0.92
3,447.0	4.25	43.25	3,431.6	-283.4	207.6	100.0	799,517.11	566,859.07	-122.76	0.92
3,542.0	3.92	39.48	3,526.3	-188.7	212.7	104.5	799,521.58	566,864.14	-127.78	0.45
3,636.0	3.67	62.54	3,620.1	-94.9	216.5	109.2	799,526.29	566,868.01	-132.90	1.63
3,729.0	5.33	119.17	3,712.9	-2.1	215.8	115.6	799,532.71	566,867.28	-139.19	4.85
3,823.0	5.80	156.61	3,806.5	91.5	209.3	121.3	799,538.41	566,860.79	-144.12	3.82
3,917.0	5.77	183.49	3,900.0	185.0	200.2	122.9	799,540.01	566,851.71	-144.69	2.86
4,012.0	5.80	184.27	3,994.5	279.5	190.7	122.3	799,539.36	566,842.16	-142.97	0.09
4,106.0	5.95	182.92	4,088.0	373.0	181.1	121.7	799,538.76	566,832.56	-141.29	0.22
4,200.0	5.91	182.42	4,181.5	466.5	171.4	121.2	799,538.31	566,822.86	-139.75	0.07
4,294.0	6.52	182.02	4,275.0	560.0	161.2	120.8	799,537.91	566,812.69	-138.21	0.65
4,389.0	7.70	179.06	4,369.2	654.2	149.5	120.7	799,537.83	566,800.93	-136.80	1.30
4,484.0	7.96	181.00	4,463.4	748.4	136.5	120.7	799,537.82	566,787.99	-135.33	0.39
4,578.0	8.56	181.90	4,556.4	841.4	123.0	120.4	799,537.47	566,774.49	-133.47	0.65
4,672.0	9.97	181.14	4,649.2	934.2	107.9	120.0	799,537.08	566,759.36	-131.37	1.51
4,766.0	9.34	185.11	4,741.8	1,026.8	92.2	119.1	799,536.24	566,743.63	-128.76	0.97
4,861.0	10.11	183.93	4,835.5	1,120.5	76.2	117.9	799,534.98	566,727.63	-125.71	0.84



Morcor Engineering Morcor Standard Plan

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Igloo 19-24 State Fed Com 14H
Project:	Igloo 19-24 State Fed Com 14H	TVD Reference:	WELL @ 3715.0usft (Original Well Elev)
Site:	Igloo 19-24 State Fed Com 14H	MD Reference:	WELL @ 3715.0usft (Original Well Elev)
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Design:	Igloo 19-24 State Fed Com 14Y	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)	
4,956.0	10.88	180.74	4,928.9	1,213.9	58.9	117.2	799,534.29	566,710.35	-123.08	1.02	
5,051.0	11.90	180.50	5,022.0	1,307.0	40.1	117.0	799,534.09	566,691.59	-120.77	1.07	
5,144.0	12.58	181.51	5,112.9	1,397.9	20.4	116.6	799,533.74	566,671.88	-118.20	0.77	
5,226.0	12.81	181.56	5,192.9	1,477.9	2.4	116.2	799,533.26	566,653.86	-115.69	0.28	
5,302.0	13.62	179.75	5,266.9	1,551.9	-15.0	116.0	799,533.07	566,636.49	-113.54	1.20	
5,396.0	14.07	180.67	5,358.1	1,643.1	-37.5	115.9	799,532.98	566,614.00	-110.92	0.53	
5,490.0	14.41	181.70	5,449.2	1,734.2	-60.6	115.4	799,532.50	566,590.88	-107.84	0.45	
5,585.0	14.88	182.12	5,541.2	1,826.2	-84.6	114.6	799,531.70	566,566.88	-104.34	0.51	
5,679.0	15.22	182.50	5,631.9	1,916.9	-109.0	113.6	799,530.72	566,542.49	-100.61	0.38	
5,773.0	15.80	182.49	5,722.5	2,007.5	-134.1	112.5	799,529.62	566,517.38	-96.70	0.62	
5,868.0	15.91	182.50	5,813.9	2,098.9	-160.0	111.4	799,528.49	566,491.45	-92.65	0.12	
5,963.0	16.31	183.18	5,905.2	2,190.2	-186.4	110.1	799,527.19	566,465.12	-88.39	0.47	
6,056.0	16.84	183.87	5,994.3	2,279.3	-212.8	108.5	799,525.55	566,438.64	-83.78	0.61	
6,151.0	17.45	183.39	6,085.1	2,370.1	-240.8	106.7	799,523.78	566,410.69	-78.87	0.66	
6,245.0	17.95	182.94	6,174.6	2,459.6	-269.3	105.1	799,522.20	566,382.16	-74.09	0.55	
6,339.0	17.81	181.75	6,264.1	2,549.1	-298.1	103.9	799,521.02	566,353.32	-69.66	0.42	
6,434.0	16.61	177.78	6,354.8	2,639.8	-326.2	104.0	799,521.11	566,325.23	-66.58	1.77	
6,528.0	16.28	171.80	6,445.0	2,730.0	-352.7	106.4	799,523.51	566,298.76	-65.98	1.83	
6,622.0	16.78	168.08	6,535.1	2,820.1	-379.0	111.1	799,528.19	566,272.44	-67.67	1.25	
6,717.0	16.51	167.80	6,626.1	2,911.1	-405.6	116.8	799,533.87	566,245.83	-70.32	0.30	
6,812.0	16.08	168.42	6,717.3	3,002.3	-431.7	122.3	799,539.37	566,219.75	-72.84	0.49	
6,906.0	16.06	169.14	6,807.6	3,092.6	-457.2	127.3	799,544.43	566,194.23	-75.00	0.21	
7,000.0	16.46	168.78	6,897.9	3,182.9	-483.1	132.4	799,549.47	566,168.40	-77.09	0.44	
7,094.0	16.54	168.42	6,988.0	3,273.0	-509.2	137.6	799,554.75	566,142.22	-79.39	0.14	
7,189.0	16.65	168.27	7,079.1	3,364.1	-535.8	143.1	799,560.23	566,115.65	-81.84	0.12	
7,284.0	16.97	168.51	7,170.0	3,455.0	-562.7	148.7	799,565.76	566,088.74	-84.30	0.34	
7,378.0	17.12	169.54	7,259.9	3,544.9	-589.8	153.9	799,571.00	566,061.69	-86.47	0.36	



Morcor Engineering Morcor Standard Plan

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Project:	Igloo 19-24 State Fed Com 14H	TVD Reference:	WELL @ 3715.0usft (Original Well Elev)
Site:	Igloo 19-24 State Fed Com 14H	MD Reference:	WELL @ 3715.0usft (Original Well Elev)
Well:	Igloo 19-24 State Fed Com 14H	North Reference:	Grid
Wellbore:	Igloo 19-24 State Fed Com 14H	Survey Calculation Method:	Minimum Curvature
Design:	Igloo 19-24 State Fed Com 14Y	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)	
7,472.0	17.37	168.86	7,349.6	3,634.6	-617.2	159.1	799,576.23	566,034.32	-88.57	0.34	
7,567.0	17.20	168.45	7,440.3	3,725.3	-644.8	164.7	799,581.78	566,006.64	-90.97	0.22	
7,661.0	15.41	168.47	7,530.6	3,815.6	-670.7	170.0	799,587.06	565,980.79	-93.30	1.90	
7,754.0	13.70	173.09	7,620.6	3,905.6	-693.7	173.8	799,590.85	565,957.75	-94.48	2.22	
7,848.0	11.96	172.64	7,712.2	3,997.2	-714.4	176.3	799,593.44	565,937.03	-94.71	1.85	
7,943.0	11.68	172.30	7,805.2	4,090.2	-733.7	178.9	799,595.99	565,917.74	-95.07	0.30	
8,037.0	11.43	174.30	7,897.3	4,182.3	-752.4	181.1	799,598.19	565,899.04	-95.15	0.50	
8,130.0	11.29	173.84	7,988.5	4,273.5	-770.6	183.0	799,600.08	565,880.82	-94.98	0.18	
8,225.0	10.01	172.89	8,081.8	4,366.8	-788.1	185.0	799,602.10	565,863.39	-95.02	1.36	
8,320.0	9.06	174.45	8,175.5	4,460.5	-803.7	186.7	799,603.85	565,847.75	-94.99	1.04	
8,414.0	8.22	173.44	8,268.5	4,553.5	-817.8	188.2	799,605.33	565,833.70	-94.89	0.91	
8,506.0	6.21	173.45	8,359.7	4,644.7	-829.2	189.6	799,606.65	565,822.23	-94.90	2.18	
8,600.0	5.09	183.90	8,453.3	4,738.3	-838.5	189.8	799,606.95	565,813.01	-94.16	1.61	
8,694.0	2.92	191.43	8,547.0	4,832.0	-845.0	189.1	799,606.19	565,806.51	-92.67	2.37	
8,788.0	1.17	199.29	8,641.0	4,926.0	-848.2	188.3	799,605.40	565,803.25	-91.52	1.88	
8,882.0	0.26	211.73	8,735.0	5,020.0	-849.3	187.9	799,604.97	565,802.17	-90.97	0.98	
8,976.0	0.61	230.95	8,829.0	5,114.0	-849.8	187.4	799,604.47	565,801.67	-90.42	0.40	
9,070.0	0.61	231.62	8,923.0	5,208.0	-850.4	186.6	799,603.69	565,801.04	-89.57	0.01	
9,164.0	0.50	261.40	9,017.0	5,302.0	-850.8	185.8	799,602.89	565,800.67	-88.74	0.32	
9,259.0	0.79	237.15	9,112.0	5,397.0	-851.2	184.8	799,601.93	565,800.26	-87.74	0.41	
9,353.0	0.53	243.21	9,205.9	5,490.9	-851.8	183.9	799,601.00	565,799.71	-86.75	0.29	
9,424.0	0.69	220.83	9,276.9	5,561.9	-852.2	183.3	799,600.42	565,799.24	-86.12	0.40	
9,458.0	0.81	243.62	9,310.9	5,595.9	-852.5	183.0	799,600.08	565,798.97	-85.75	0.94	
9,505.0	4.08	262.68	9,357.9	5,642.9	-852.9	181.0	799,598.12	565,798.61	-83.76	7.07	
9,553.0	10.02	270.29	9,405.5	5,690.5	-853.1	175.1	799,592.24	565,798.42	-77.90	12.50	
9,600.0	16.90	271.49	9,451.2	5,736.2	-852.9	164.2	799,581.31	565,798.62	-67.06	14.65	
9,647.0	23.29	270.71	9,495.3	5,780.3	-852.6	148.1	799,565.18	565,798.91	-51.06	13.61	



Morcor Engineering Morcor Standard Plan

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Project:	Igloo 19-24 State Fed Com 14H	TVD Reference:	WELL @ 3715.0usft (Original Well Elev)
Site:	Igloo 19-24 State Fed Com 14H	MD Reference:	WELL @ 3715.0usft (Original Well Elev)
Well:	Igloo 19-24 State Fed Com 14H	North Reference:	Grid
Wellbore:	Igloo 19-24 State Fed Com 14H	Survey Calculation Method:	Minimum Curvature
Design:	Igloo 19-24 State Fed Com 14Y	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)	
9,694.0	29.12	268.67	9,537.5	5,822.5	-852.7	127.3	799,544.43	565,798.76	-30.44	12.55	
9,741.0	31.27	267.51	9,578.1	5,863.1	-853.5	103.7	799,520.81	565,797.96	-6.88	4.74	
9,788.0	32.71	265.01	9,617.9	5,902.9	-855.1	78.9	799,495.97	565,796.33	17.99	4.16	
9,834.0	37.43	265.92	9,655.6	5,940.6	-857.2	52.5	799,469.63	565,794.25	44.40	10.32	
9,881.0	42.32	267.44	9,691.6	5,976.6	-858.9	22.5	799,439.56	565,792.53	74.47	10.61	
9,928.0	45.97	268.03	9,725.4	6,010.4	-860.2	-10.2	799,406.86	565,791.24	107.11	7.81	
9,975.0	49.81	268.20	9,756.9	6,041.9	-861.4	-45.1	799,372.01	565,790.09	141.86	8.17	
10,023.0	55.93	269.27	9,785.8	6,070.8	-862.2	-83.3	799,333.77	565,789.26	179.95	12.87	
10,070.0	61.20	271.71	9,810.3	6,095.3	-861.8	-123.4	799,293.69	565,789.63	219.74	12.05	
10,117.0	64.92	271.98	9,831.6	6,116.6	-860.5	-165.3	799,251.82	565,790.98	261.19	7.93	
10,164.0	67.50	272.09	9,850.6	6,135.6	-859.0	-208.3	799,208.85	565,792.51	303.72	5.49	
10,211.0	71.50	272.66	9,867.0	6,152.0	-857.1	-252.2	799,164.87	565,794.34	347.21	8.59	
10,258.0	73.96	272.81	9,881.0	6,166.0	-855.0	-297.1	799,120.04	565,796.48	391.51	5.24	
10,304.0	75.93	271.68	9,892.9	6,177.9	-853.3	-341.4	799,075.66	565,798.22	435.41	4.90	
10,351.0	81.71	271.07	9,902.1	6,187.1	-852.2	-387.5	799,029.58	565,799.32	481.07	12.36	
10,398.0	84.81	270.39	9,907.6	6,192.6	-851.6	-434.2	798,982.92	565,799.91	527.37	6.75	
10,445.0	90.34	270.40	9,909.6	6,194.6	-851.2	-481.1	798,935.98	565,800.24	573.98	11.77	
10,492.0	91.76	270.77	9,908.7	6,193.7	-850.8	-528.1	798,888.99	565,800.72	620.61	3.12	
10,586.0	93.08	268.85	9,904.7	6,189.7	-851.1	-622.0	798,795.08	565,800.41	713.96	2.48	
10,703.0	94.17	268.40	9,897.3	6,182.3	-853.9	-738.7	798,678.35	565,797.60	830.26	1.01	
10,797.0	93.72	269.08	9,890.9	6,175.9	-855.9	-832.5	798,584.60	565,795.54	923.65	0.87	
10,892.0	92.58	268.27	9,885.6	6,170.6	-858.1	-927.3	798,489.77	565,793.35	1,018.12	1.47	
10,987.0	93.47	267.77	9,880.6	6,165.6	-861.4	-1,022.1	798,394.96	565,790.07	1,112.70	1.07	
11,081.0	94.14	267.25	9,874.4	6,159.4	-865.5	-1,115.8	798,301.26	565,786.00	1,206.26	0.90	
11,175.0	94.96	268.25	9,866.9	6,151.9	-869.2	-1,209.5	798,207.63	565,782.32	1,299.71	1.37	
11,269.0	95.78	268.39	9,858.1	6,143.1	-871.9	-1,303.0	798,114.08	565,779.57	1,392.97	0.88	
11,364.0	96.48	267.67	9,848.0	6,133.0	-875.1	-1,397.4	798,019.68	565,776.33	1,487.13	1.05	



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Site:	Igloo 19-24 State Fed Com 14H	MD Reference:	WELL @ 3715.0usft (Original Well Elev)
Well:	Igloo 19-24 State Fed Com 14H	North Reference:	Grid
Wellbore:	Igloo 19-24 State Fed Com 14H	Survey Calculation Method:	Minimum Curvature
Design:	Igloo 19-24 State Fed Com 14Y	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
11,457.0	96.22	268.66	9,837.7	6,122.7	-878.1	-1,489.8	797,927.30	565,773.37	1,579.26	1.09
11,552.0	94.87	269.21	9,828.5	6,113.5	-879.9	-1,584.3	797,832.76	565,771.61	1,673.39	1.53
11,647.0	93.33	269.24	9,821.7	6,106.7	-881.1	-1,679.1	797,738.02	565,770.33	1,767.68	1.62
11,740.0	93.83	269.04	9,815.9	6,100.9	-882.5	-1,771.9	797,645.21	565,768.94	1,860.05	0.58
11,834.0	92.68	269.44	9,810.6	6,095.6	-883.8	-1,865.7	797,551.37	565,767.69	1,953.43	1.30
11,928.0	92.83	269.28	9,806.1	6,091.1	-884.8	-1,959.6	797,457.49	565,766.64	2,046.84	0.23
12,022.0	93.14	268.92	9,801.2	6,086.2	-886.3	-2,053.5	797,363.63	565,765.17	2,140.27	0.51
12,116.0	92.71	269.84	9,796.4	6,081.4	-887.3	-2,147.3	797,269.75	565,764.15	2,233.65	1.08
12,210.0	93.11	269.43	9,791.6	6,076.6	-887.9	-2,241.2	797,175.88	565,763.55	2,327.00	0.61
12,304.0	92.68	270.22	9,786.9	6,071.9	-888.2	-2,335.1	797,082.00	565,763.27	2,420.31	0.96
12,398.0	93.33	270.12	9,781.9	6,066.9	-887.9	-2,429.0	796,988.13	565,763.55	2,513.55	0.70
12,492.0	92.80	270.51	9,776.9	6,061.9	-887.4	-2,522.8	796,894.27	565,764.06	2,606.76	0.70
12,586.0	92.74	270.71	9,772.4	6,057.4	-886.4	-2,616.7	796,800.38	565,765.06	2,699.94	0.22
12,681.0	93.27	270.76	9,767.4	6,052.4	-885.2	-2,711.6	796,705.52	565,766.28	2,794.06	0.56
12,775.0	94.62	270.71	9,760.9	6,045.9	-884.0	-2,805.3	796,611.75	565,767.48	2,887.09	1.44
12,870.0	94.37	270.15	9,753.5	6,038.5	-883.3	-2,900.1	796,517.05	565,768.19	2,981.11	0.64
12,964.0	96.39	270.00	9,744.7	6,029.7	-883.2	-2,993.6	796,423.47	565,768.31	3,074.08	2.15
13,059.0	97.08	269.57	9,733.5	6,018.5	-883.5	-3,088.0	796,329.12	565,767.96	3,167.87	0.85
13,153.0	98.10	269.55	9,721.1	6,006.1	-884.2	-3,181.1	796,235.95	565,767.25	3,260.52	1.09
13,248.0	96.71	270.36	9,708.9	5,993.9	-884.3	-3,275.4	796,141.75	565,767.17	3,354.14	1.69
13,342.0	93.90	269.89	9,700.2	5,985.2	-884.1	-3,368.9	796,048.16	565,767.38	3,447.11	3.03
13,436.0	92.04	270.34	9,695.3	5,980.3	-883.9	-3,462.8	795,954.29	565,767.56	3,540.36	2.04
13,531.0	93.64	270.08	9,690.6	5,975.6	-883.6	-3,557.7	795,859.41	565,767.91	3,634.59	1.71
13,625.0	92.07	269.90	9,685.9	5,970.9	-883.6	-3,651.6	795,765.53	565,767.90	3,727.88	1.68
13,720.0	91.99	269.02	9,682.5	5,967.5	-884.5	-3,746.5	795,670.60	565,767.00	3,822.31	0.93
13,814.0	91.88	268.58	9,679.4	5,964.4	-886.4	-3,840.4	795,576.67	565,765.03	3,915.86	0.48
13,908.0	91.32	267.94	9,676.7	5,961.7	-889.3	-3,934.3	795,482.75	565,762.18	4,009.50	0.90



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Site:	Igloo 19-24 State Fed Com 14H	MD Reference:	WELL @ 3715.0usft (Original Well Elev)
Well:	Igloo 19-24 State Fed Com 14H	North Reference:	Grid
Wellbore:	Igloo 19-24 State Fed Com 14H	Survey Calculation Method:	Minimum Curvature
Design:	Igloo 19-24 State Fed Com 14Y	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)	
14,002.0	93.53	268.57	9,672.8	5,957.8	-892.1	-4,028.2	795,388.88	565,759.32	4,103.09	2.44	
14,097.0	93.89	268.48	9,666.6	5,951.6	-894.6	-4,123.0	795,294.12	565,756.88	4,197.53	0.39	
14,191.0	93.24	267.86	9,660.8	5,945.8	-897.6	-4,216.8	795,200.35	565,753.88	4,291.04	0.95	
14,285.0	93.33	267.39	9,655.4	5,940.4	-901.5	-4,310.5	795,106.58	565,750.00	4,384.65	0.51	
14,379.0	94.12	268.29	9,649.3	5,934.3	-905.0	-4,404.3	795,012.85	565,746.46	4,478.18	1.27	
14,474.0	94.93	267.92	9,641.8	5,926.8	-908.1	-4,498.9	794,918.20	565,743.33	4,572.58	0.94	
14,568.0	93.44	268.67	9,634.9	5,919.9	-910.9	-4,592.6	794,824.49	565,740.54	4,666.00	1.77	
14,663.0	91.15	269.67	9,631.1	5,916.1	-912.3	-4,687.5	794,729.59	565,739.16	4,760.46	2.63	
14,757.0	91.01	269.64	9,629.4	5,914.4	-912.9	-4,781.5	794,635.60	565,738.60	4,853.91	0.15	
14,852.0	91.54	271.12	9,627.2	5,912.2	-912.2	-4,876.5	794,540.63	565,739.23	4,948.20	1.65	
14,945.0	93.56	272.14	9,623.1	5,908.1	-909.6	-4,969.3	794,447.77	565,741.87	5,040.18	2.43	
15,040.0	93.92	271.52	9,616.9	5,901.9	-906.6	-5,064.1	794,353.02	565,744.90	5,133.98	0.75	
15,134.0	95.45	271.62	9,609.2	5,894.2	-904.0	-5,157.7	794,259.37	565,747.46	5,226.74	1.63	
15,227.0	93.42	270.76	9,602.0	5,887.0	-902.1	-5,250.4	794,166.68	565,749.39	5,318.63	2.37	
15,322.0	94.64	270.63	9,595.4	5,880.4	-900.9	-5,345.2	794,071.92	565,750.54	5,412.66	1.29	
15,415.0	95.75	270.37	9,586.9	5,871.9	-900.1	-5,437.8	793,979.31	565,751.35	5,504.59	1.23	
15,510.0	94.56	269.57	9,578.4	5,863.4	-900.2	-5,532.4	793,884.69	565,751.30	5,598.60	1.51	
15,603.0	92.74	269.27	9,572.5	5,857.5	-901.1	-5,625.2	793,791.89	565,750.36	5,690.92	1.98	
15,698.0	93.33	269.74	9,567.5	5,852.5	-901.9	-5,720.1	793,697.03	565,749.54	5,785.27	0.79	
15,793.0	94.73	270.21	9,560.8	5,845.8	-902.0	-5,814.8	793,602.27	565,749.50	5,879.44	1.55	
15,888.0	95.97	270.05	9,551.9	5,836.9	-901.8	-5,909.4	793,507.68	565,749.71	5,973.39	1.32	
15,982.0	96.10	269.78	9,542.0	5,827.0	-901.9	-6,002.9	793,414.20	565,749.57	6,066.29	0.32	
16,075.0	96.62	269.22	9,531.7	5,816.7	-902.7	-6,095.3	793,321.78	565,748.77	6,158.22	0.82	
16,170.0	94.91	269.14	9,522.2	5,807.2	-904.1	-6,189.8	793,227.27	565,747.41	6,252.28	1.80	
16,264.0	92.77	269.26	9,515.9	5,800.9	-905.4	-6,283.6	793,133.50	565,746.10	6,345.60	2.28	
16,358.0	90.75	269.58	9,513.0	5,798.0	-906.3	-6,377.5	793,039.55	565,745.15	6,439.05	2.18	
16,453.0	89.89	270.30	9,512.5	5,797.5	-906.4	-6,472.5	792,944.56	565,745.05	6,533.46	1.18	



Morcor Engineering

Morcor Standard Plan

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Igloo 19-24 State Fed Com 14H
Project:	Igloo 19-24 State Fed Com 14H	TVD Reference:	WELL @ 3715.0usft (Original Well Elev)
Site:	Igloo 19-24 State Fed Com 14H	MD Reference:	WELL @ 3715.0usft (Original Well Elev)
Well:	Igloo 19-24 State Fed Com 14H	North Reference:	Grid
Wellbore:	Igloo 19-24 State Fed Com 14H	Survey Calculation Method:	Minimum Curvature
Design:	Igloo 19-24 State Fed Com 14Y	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)	
16,547.0	88.80	269.82	9,513.6	5,798.6	-906.3	-6,566.5	792,850.56	565,745.15	6,626.84	1.27	
16,640.0	87.04	270.08	9,516.9	5,801.9	-906.4	-6,659.5	792,757.63	565,745.07	6,719.19	1.91	
16,734.0	85.96	270.36	9,522.7	5,807.7	-906.0	-6,753.3	792,663.81	565,745.43	6,812.38	1.19	
16,829.0	84.72	270.28	9,530.4	5,815.4	-905.5	-6,848.0	792,569.12	565,745.96	6,906.40	1.31	
16,924.0	84.84	270.49	9,539.0	5,824.0	-904.9	-6,942.6	792,474.52	565,746.60	7,000.33	0.25	
17,019.0	86.72	270.17	9,546.0	5,831.0	-904.3	-7,037.3	792,379.78	565,747.14	7,094.40	2.01	
17,113.0	84.21	270.11	9,553.4	5,838.4	-904.1	-7,131.0	792,286.09	565,747.37	7,187.47	2.67	
17,206.0	83.74	269.96	9,563.2	5,848.2	-904.0	-7,223.5	792,193.60	565,747.43	7,279.36	0.53	
17,301.0	83.79	269.32	9,573.5	5,858.5	-904.6	-7,317.9	792,099.16	565,746.83	7,373.26	0.67	
17,395.0	83.93	268.59	9,583.6	5,868.6	-906.3	-7,411.4	792,005.72	565,745.13	7,466.31	0.79	
17,490.0	85.58	268.52	9,592.3	5,877.3	-908.7	-7,505.9	791,911.15	565,742.74	7,560.54	1.74	
17,584.0	85.60	267.99	9,599.5	5,884.5	-911.6	-7,599.6	791,817.47	565,739.89	7,653.94	0.56	
17,678.0	85.27	267.53	9,607.0	5,892.0	-915.2	-7,693.3	791,723.84	565,736.23	7,747.39	0.60	
17,773.0	85.02	267.09	9,615.0	5,900.0	-919.7	-7,787.8	791,629.29	565,731.78	7,841.84	0.53	
17,867.0	84.63	266.54	9,623.5	5,908.5	-924.9	-7,881.3	791,535.82	565,726.58	7,935.31	0.72	
17,962.0	85.03	266.05	9,632.1	5,917.1	-931.0	-7,975.7	791,441.40	565,720.47	8,029.81	0.66	
18,009.0	84.59	265.16	9,636.3	5,921.3	-934.6	-8,022.4	791,394.73	565,716.88	8,076.58	2.11	
18,080.0	84.59	265.16	9,643.0	5,928.0	-940.6	-8,092.8	791,324.30	565,710.92	8,147.24	0.00	

Checked By: _____ Approved By: _____ Date: _____

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-025-46908
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Igloo 19-24 State Fed Com
8. Well Number 14Y
9. OGRID Number 249099
10. Pool name or Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator Caza Oil and Gas, Inc	
3. Address of Operator 200 N. Lorraine St #1550., Midland, TX 79701	
4. Well Location Unit Letter O ; 1315 feet from the South line and 2365 feet from the East line Section 19 Township 20S Range 35E NMPM County Lea	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3694'GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☒		OTHER: ☒	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

2/4/2021 - Production casing was perf'd from 10,385'MD - 18,046'MD with 0.42" perf size and 8 shots per foot. The well was fracked with 21,077,340lbs of sand.

Spud Date:

2/29/2020

Rig Release Date:

4/13/2020

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

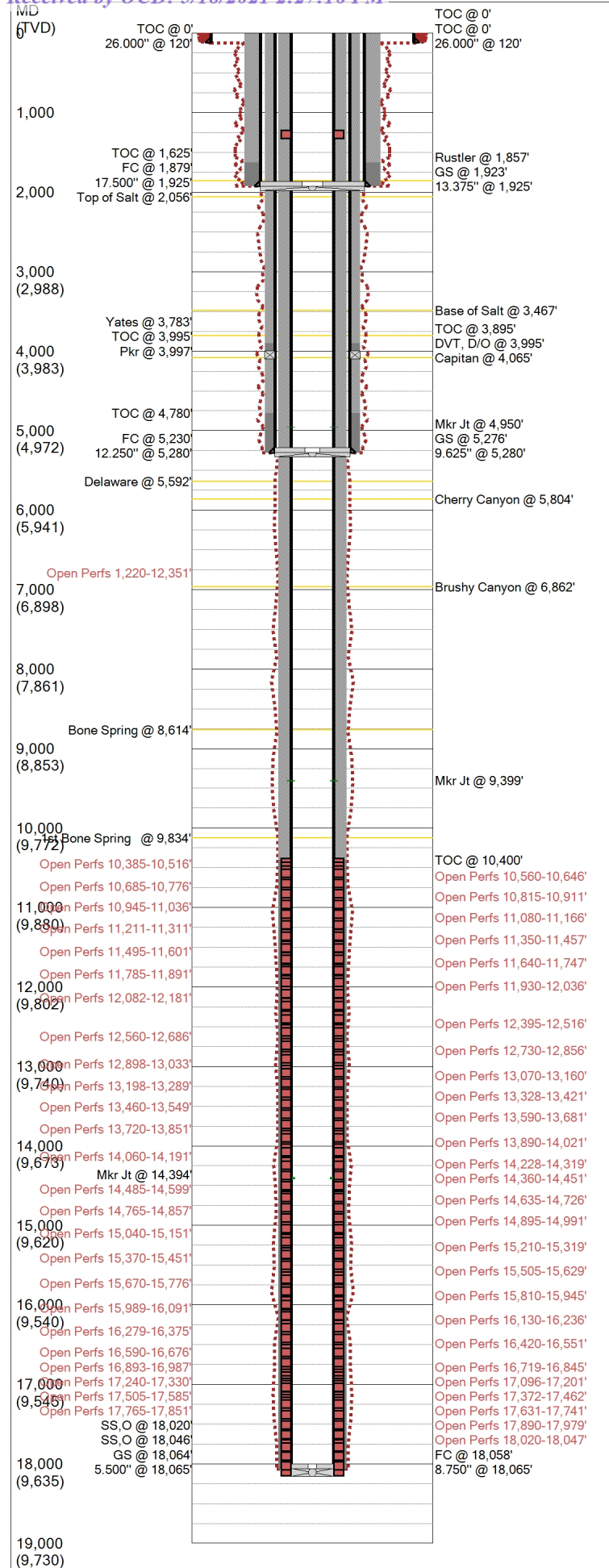
SIGNATURE  TITLE **Engineer** DATE **5/18/2021**

Type or print name **Steve Morris** E-mail address: **steve.morris@morcoreengineering.com** PHONE: **985-415-9729**

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):



Last Updated: 3/17/2021 06:15 AM

Field Name			Lease Name			Well No.	
Antelope Ridge			Igloo 19-24 State Fed Com			14Y	
County			State			API No.	
Lea			New Mexico			30-025-46908	
Version		Version Tag					
1		Completed					
GL (ft)		KB (ft)	Section	Township/Block		Range/Survey	
3,694.0		3,715.0	19	20S		35E	
Operator			Well Status		Latitude		Longitude
Caza Operating			Completed		32.55499072		-103.49571433
Dist. N/S (ft)		N/S Line	Dist. E/W (ft)		E/W Line	Footage From	
1315		FSL	2365		FEL	SECTION	
Prop Num				Spud Date		Comp. Date	
313780				2/29/2020		2/4/2021	
Additional Information							
OGRID		Pool Name and Code		Well Type		Dedicated Acres	
249099		Lea Bone Spring: South (37580)		Hz, Oil		240.1	
Prepared By			Updated By			Last Updated	
Steve Morris			Steve Morris			3/17/2021 6:15 AM	
Hole Summary							
Date	Diam. (in)	Top (MD ft)	Bottom (MD ft)	Comments			
	26.000	0	120				
	17.500	120	1,925				
	12.250	1,925	5,280				
	8.750	5,280	18,065				
Tubular Summary							
Date	Description		O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Conductor Casing		26.000	94.00	H40	0	120
	Surface Casing		13.375	54.50	J55	0	1,925
	Intermediate Casing		9.625	40.00	HCL80	0	5,280
	Production Casing		5.500	20.00	P110	0	18,065
Casing Cement Summary							
C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments	
		1,080	13.375	0	1,625	Circulate 277sx to surface	
		320	13.375	1,625	1,925		
		1,620	9.625	0	3,895	Circulate 356sx to surface	
		100	9.625	3,895	3,995		
		340	9.625	3,995	4,780		
		220	9.625	4,780	5,280		
		950	5.500	0	10,400	Circulate 356sx to surface	
		1,580	5.500	10,400	18,065		
Tools/Problems Summary							
Date		Tool Type		O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
		FC		13.375	0.000	1,879	0
		GS		13.375	0.000	1,923	0
		DVT, D/O		9.625	0.000	3,995	0
		Pkr		12.250	9.625	3,997	0
		Mkr Jt		5.500	0.000	4,950	4,960

Last Updated: 3/17/2021 06:15 AM

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
	FC	9.625	0.000	5,230	0
	GS	9.625	0.000	5,276	0
	Mkr Jt	5.500	0.000	9,399	9,409
	Mkr Jt	5.500	0.000	14,394	14,416
	SS,O	5.500	0.000	18,020	18,022
	SS,O	5.500	0.000	18,046	18,048
	FC	5.500	0.000	18,058	0
	GS	5.500	0.000	18,064	0

Perforation Summary

C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)
		Open	1st Bone Spring	1220	12,351
		Open	1st Bone Spring	10385	10,516
		Open	1st Bone Spring	10560	10,646
		Open	1st Bone Spring	10685	10,776
		Open	1st Bone Spring	10815	10,911
		Open	1st Bone Spring	10945	11,036
		Open	1st Bone Spring	11080	11,166
		Open	1st Bone Spring	11211	11,311
		Open	1st Bone Spring	11350	11,457
		Open	1st Bone Spring	11495	11,601
		Open	1st Bone Spring	11640	11,747
		Open	1st Bone Spring	11785	11,891
		Open	1st Bone Spring	11930	12,036
		Open	1st Bone Spring	12082	12,181
		Open	1st Bone Spring	12395	12,516
		Open	1st Bone Spring	12560	12,686
		Open	1st Bone Spring	12730	12,856
		Open	1st Bone Spring	12898	13,033
		Open	1st Bone Spring	13070	13,160
		Open	1st Bone Spring	13198	13,289
		Open	1st Bone Spring	13328	13,421
		Open	1st Bone Spring	13460	13,549
		Open	1st Bone Spring	13590	13,681
		Open	1st Bone Spring	13720	13,851
		Open	1st Bone Spring	13890	14,021
		Open	1st Bone Spring	14060	14,191
		Open	1st Bone Spring	14228	14,319
		Open	1st Bone Spring	14360	14,451
		Open	1st Bone Spring	14485	14,599
		Open	1st Bone Spring	14635	14,726
		Open	1st Bone Spring	14765	14,857
		Open	1st Bone Spring	14895	14,991
		Open	1st Bone Spring	15040	15,151
		Open	1st Bone Spring	15210	15,319
		Open	1st Bone Spring	15370	15,451
		Open	1st Bone Spring	15505	15,629
		Open	1st Bone Spring	15670	15,776
		Open	1st Bone Spring	15810	15,945
		Open	1st Bone Spring	15989	16,091
		Open	1st Bone Spring	16130	16,236
		Open	1st Bone Spring	16279	16,375
		Open	1st Bone Spring	16420	16,551
		Open	1st Bone Spring	16590	16,676

Last Updated: 3/17/2021 06:15 AM

C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)
		Open	1st Bone Spring	16719	16,845
		Open	1st Bone Spring	16893	16,987
		Open	1st Bone Spring	17096	17,201
		Open	1st Bone Spring	17240	17,330
		Open	1st Bone Spring	17372	17,462
		Open	1st Bone Spring	17505	17,585
		Open	1st Bone Spring	17631	17,741
		Open	1st Bone Spring	17765	17,851
		Open	1st Bone Spring	17890	17,979
		Open	1st Bone Spring	18020	18,047

Formation Tops Summary

Formation	Top (TVD ft)	Comments
Rustler	1,857	
Top of Salt	2,056	
Base of Salt	3,467	
Yates	3,783	
Capitan	4,065	
Delaware	5,592	
Cherry Canyon	5,804	
Brushy Canyon	6,862	
Bone Spring	8,614	
1st Bone Spring	9,834	

Last Updated: 3/17/2021 06:15 AM

Field Name		Lease Name		Well No.	County		State		API No.	
Antelope Ridge		Igloo 19-24 State Fed Com		14Y	Lea		New Mexico		30025469080000	
Version	Version Tag				Spud Date		Comp. Date		GL (ft)	KB (ft)
1	Completed				2/29/2020		2/4/2021		3,694.0	3,715.0
Section	Township/Block		Range/Survey		Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From	
19	20S		35E		1,315	FSL	2,365	FEL	SECTION	
Operator			Well Status			Latitude		Longitude		Prop Num
Caza Operating			Completed			32.55499072		-103.49571433		313780
OGRID		Pool Name and Code			Well Type				Dedicated Acres	
249099		Lea Bone Spring: South (37580)			Hz, Oil				240.1	
Last Updated		Prepared By				Updated By				
03/17/2021 6:15 AM		Steve Morris				Steve Morris				

Additional Information

Hole Summary

Date	Diam. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	26.000	0	120	
	17.500	120	1,925	
	12.250	1,925	5,280	
	8.750	5,280	18,065	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Coupling	Top (MD ft)	Bottom (MD ft)	Comments
	Conductor Casing	3	26.000	94.00	H40		0	120	
	Surface Casing	45	13.375	54.50	J55	STC	0	1,925	
	Intermediate Casing	116	9.625	40.00	HCL80	BTC	0	5,280	
	Production Casing	404	5.500	20.00	P110	BHT	0	18,065	

Casing Cement Summary

C	Date	No. Sx	Yield (ft3/sk)	Vol. (ft3)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
		1,080	1.97	2,128	13.375	0	1,625	12.9ppg Class C + 4% Gel + 2% CaCl2 + 0.125# Celloflake + 0.4# Defoamer	Circulate 277sx to surface
		320	1.32	422	13.375	1,625	1,925	14.8ppg Class C	
		1,620	2.36	3,823	9.625	0	3,895	11.9ppg Class C 50/50 PLite + 5% Salt + 10% Gel + 0.2% Retarder + 0.1% Anti-Settling + 3# Extender + 3# KolSeal + 0.4# Defoamer	Circulate 356sx to surface
		100	1.32	132	9.625	3,895	3,995	14.8ppg Class C	
		340	2.36	802	9.625	3,995	4,780	11.9ppg Class C 50/50 PLite + 5% Salt + 10% Gel + 0.2% Retarder + 0.1% Anti-Settling + 3# Extender + 3# KolSeal + 0.4# Defoamer	
		220	1.32	290	9.625	4,780	5,280	14.8ppg Class C	
		950	3.39	3,221	5.500	0	10,400	11ppg Class H 50/50 PLite + 5% Salt + 12% Gel + 0.4% Anti-Settling + 0.6% Retarder + 0.8% PF79	Circulate 356sx to surface
		1,580	1.33	2,101	5.500	10,400	18,065	14.2ppg Class H 50/50 POZ + 5% salt + 2% Gel + 0.4% Fluid Loss + 0.2% Retarder + 0.2% Anti-Settling + 0.4# Defoamer	

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	Float Collar	13.375	0.000	1,879	0		
	Guide Shoe	13.375	0.000	1,923	0		
	DV tool (drilled out)	9.625	0.000	3,995	0		
	Packer	12.250	9.625	3,997	0	ECP	

Last Updated: 3/17/2021 06:15 AM

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	Marker Joint	5.500	0.000	4,950	4,960		
	Float Collar	9.625	0.000	5,230	0		
	Guide Shoe	9.625	0.000	5,276	0		
	Marker Joint	5.500	0.000	9,399	9,409		
	Marker Joint	5.500	0.000	14,394	14,416		
	Sliding Sleeve (open)	5.500	0.000	18,020	18,022	Toe Sleeve	
	Sliding Sleeve (open)	5.500	0.000	18,046	18,048	Toe Sleeve	
	Float Collar	5.500	0.000	18,058	0		
	Guide Shoe	5.500	0.000	18,064	0		

Perforation Summary

C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 40 - 390,200lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
1220	1,221	8	8	60	
12263	12,264	8	8	60	
12307	12,308	8	8	60	
12350	12,351	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 53 - 388,125lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
10385	10,386	8	8	60	
10428	10,429	8	8	60	
10477	10,478	8	8	60	
10515	10,516	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 52 - 385,500lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
10560	10,561	8	8	60	
10585	10,586	8	8	60	
10615	10,616	8	8	60	
10645	10,646	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 51 - 382,250lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
10685	10,686	8	8	60	
10715	10,716	8	8	60	
10745	10,746	8	8	60	
10775	10,776	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 50 - 390,080lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
10815	10,816	8	8	60	
10843	10,844	8	8	60	
10875	10,876	8	8	60	
10910	10,911	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 49 - 390,800lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
10945	10,946	8	8	60	
10975	10,976	8	8	60	

Last Updated: 3/17/2021 06:15 AM

C	Date	Perf. Status	Formation	Closed Date	Comments
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
11005	11,006	8	8	60	
11035	11,036	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 48 - 390,150lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
11080	11,081	8	8	60	
11105	11,106	8	8	60	
11135	11,136	8	8	60	
11165	11,166	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 47 - 384,080lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
11211	11,212	8	8	60	
11235	11,236	8	8	60	
11275	11,276	8	8	60	
11310	11,311	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 46 - 391,820lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
11350	11,351	8	8	60	
11386	11,387	8	8	60	
11422	11,423	8	8	60	
11456	11,457	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 45 - 389,600lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
11495	11,496	8	8	60	
11525	11,526	8	8	60	
11565	11,566	8	8	60	
11600	11,601	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 44 - 390,800lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
11640	11,641	8	8	60	
11685	11,686	8	8	60	
11715	11,716	8	8	60	
11746	11,747	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 43 - 390,400lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
11785	11,786	8	8	60	
11815	11,816	8	8	60	
11855	11,856	8	8	60	
11890	11,891	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 42 - 387,305lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
11930	11,931	8	8	60	
11970	11,971	8	8	60	

Last Updated: 3/17/2021 06:15 AM

C	Date	Perf. Status	Formation		Closed Date	Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11995	11,996	8	8	60	
	12035	12,036	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 41 - 390,080lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12082	12,083	8	8	60	
	12110	12,111	8	8	60	
	12145	12,146	8	8	60	
	12180	12,181	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 39 - 389,900lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12395	12,396	8	8	60	
	12433	12,434	8	8	60	
	12473	12,474	8	8	60	
	12515	12,516	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 38 - 390,600lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12560	12,561	8	8	60	
	12603	12,604	8	8	60	
	12647	12,648	8	8	60	
	12685	12,686	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 37 - 390,500lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12730	12,731	8	8	60	
	12770	12,771	8	8	60	
	12809	12,810	8	8	60	
	12855	12,856	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 36 - 390,500lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12898	12,899	8	8	60	
	12943	12,944	8	8	60	
	12987	12,988	8	8	60	
	13032	13,033	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 35 - 392,700lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13070	13,071	8	8	60	
	13102	13,103	8	8	60	
	13132	13,133	8	8	60	
	13159	13,160	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 34 - 390,490lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13198	13,199	8	8	60	
	13236	13,237	8	8	60	

Last Updated: 3/17/2021 06:15 AM

C	Date	Perf. Status	Formation		Closed Date	Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13260	13,261	8	8	60	
	13288	13,289	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 33 - 390,100lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13328	13,329	8	8	60	
	13360	13,361	8	8	60	
	13390	13,391	8	8	60	
	13420	13,421	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 32 - 390,750lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13460	13,461	8	8	60	
	13490	13,491	8	8	60	
	13520	13,521	8	8	60	
	13548	13,549	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 31 - 390,840lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13590	13,591	8	8	60	
	13620	13,621	8	8	60	
	13652	13,653	8	8	60	
	13680	13,681	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 30 - 389,300lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13720	13,721	8	8	60	
	13763	13,764	8	8	60	
	13807	13,808	8	8	60	
	13850	13,851	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 29 - 390,350lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13890	13,891	8	8	60	
	13977	13,978	8	8	60	
	14020	14,021	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 28 - 390,270lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14060	14,061	8	8	60	
	14103	14,104	8	8	60	
	14147	14,148	8	8	60	
	14190	14,191	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 27 - 389,600lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14228	14,229	8	8	60	
	14260	14,261	8	8	60	
	14292	14,293	8	8	60	

Last Updated: 3/17/2021 06:15 AM

C	Date	Perf. Status	Formation		Closed Date	Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14318	14,319	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 26 - 660,390lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14360	14,361	8	8	60	
	14390	14,391	8	8	60	
	14420	14,421	8	8	60	
	14450	14,451	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 25 - 390,500lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14485	14,486	8	8	60	
	14525	14,526	8	8	60	
	14570	14,571	8	8	60	
	14598	14,599	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 24 - 389,920lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14635	14,636	8	8	60	
	14664	14,665	8	8	60	
	14693	14,694	8	8	60	
	14725	14,726	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 23 - 376,000lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14765	14,766	8	8	60	
	14794	14,795	8	8	60	
	14823	14,824	8	8	60	
	14856	14,857	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 22 - 391,210lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14895	14,896	8	8	60	
	14922	14,923	8	8	60	
	14958	14,959	8	8	60	
	14990	14,991	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 21 - 392,000lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15040	15,041	8	8	60	
	15075	15,076	8	8	60	
	15113	15,114	8	8	60	
	15150	15,151	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 20 - 390,600lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15210	15,211	8	8	60	
	15247	15,248	8	8	60	
	15285	15,286	8	8	60	

Last Updated: 3/17/2021 06:15 AM

C	Date	Perf. Status	Formation		Closed Date	Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15318	15,319	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 19 - 390,685lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15370	15,371	8	8	60	
	15394	15,395	8	8	60	
	15422	15,423	8	8	60	
	15450	15,451	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 18 - 380,575lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15505	15,506	8	8	60	
	15548	15,549	8	8	60	
	15585	15,586	8	8	60	
	15628	15,629	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 17 - 392,200lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15670	15,671	8	8	60	
	15697	15,698	8	8	60	
	15740	15,741	8	8	60	
	15775	15,776	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 16 391,300lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15810	15,811	8	8	60	
	15858	15,859	8	8	60	
	15897	15,898	8	8	60	
	15944	15,945	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 15 - 392,500lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15989	15,990	8	8	60	
	16020	16,021	8	8	60	
	16060	16,061	8	8	60	
	16090	16,091	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 14 - 389,480lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16130	16,131	8	8	60	
	16161	16,162	8	8	60	
	16198	16,199	8	8	60	
	16235	16,236	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 13 - 391,000lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16279	16,280	8	8	60	
	16310	16,311	8	8	60	
	16336	16,337	8	8	60	

Last Updated: 3/17/2021 06:15 AM

C	Date	Perf. Status	Formation		Closed Date	Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16374	16,375	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 12 - 390,450lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16420	16,421	8	8	60	
	16501	16,502	8	8	60	
	16550	16,551	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 11 - 390,860lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16590	16,591	8	8	60	
	16626	16,627	8	8	60	
	16652	16,653	8	8	60	
	16675	16,676	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 10 - 391,460lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16719	16,720	8	8	60	
	16768	16,769	8	8	60	
	16809	16,810	8	8	60	
	16844	16,845	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 9 - 390,900lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16893	16,894	8	8	60	
	16926	16,927	8	8	60	
	16950	16,951	8	8	60	
	16986	16,987	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 8 - 271,700lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	17096	17,097	8	8	60	
	17131	17,132	8	8	60	
	17165	17,166	8	60		17130
	17200	17,201	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 7 - 390,200lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	17240	17,241	8	8	60	
	17275	17,276	8	8	60	
	17300	17,301	8	8	60	
	17329	17,330	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 6 - 390,140lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	17372	17,373	8	8	60	
	17400	17,401	8	8	60	
	17430	17,431	8	8	60	
	17461	17,462	8	8	60	

Last Updated: 3/17/2021 06:15 AM

C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 5 - 399,950lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
17505	17,506	8	8	60	
17530	17,531	8	8	60	
17560	17,561	8	8	60	
17584	17,585	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 4 - 393,300lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
17631	17,632	8	8	60	
17660	17,661	8	8	60	
17695	17,696	8	8	60	
17740	17,741	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 3 - 392,430lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
17765	17,766	8	8	60	
17790	17,791	8	8	60	
17820	17,821	8	8	60	
17850	17,851	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 2 - 390,980lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
17890	17,891	8	8	60	
17915	17,916	8	8	60	
17940	17,941	8	8	60	
17978	17,979	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 1 - 645,800lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
18020	18,021	8	8	60	
18046	18,047	8	8	60	

Formation Top Summary

Formation Name	Top(TVD ft)	Comments
Rustler	1,857	
Top of Salt	2,056	
Base of Salt	3,467	
Yates	3,783	
Capitan	4,065	
Delaware	5,592	
Cherry Canyon	5,804	
Brushy Canyon	6,862	
Bone Spring	8,614	
1st Bone Spring	9,834	



Vertical Section Data:

True Vertical Depth (ft)	Perforation Details
~1,625'	Open Perfs 10385-10516'
~1,925'	Open Perfs 10685-10776'
~2,280'	Open Perfs 10945-11036'
~2,592'	Open Perfs 11211-11311'
~2,783'	Open Perfs 11495-11601'
~2,925'	Open Perfs 11785-11891'
~3,056'	Open Perfs 12082-12181'
~3,467'	Open Perfs 12560-12686'
~3,783'	Open Perfs 12898-13033'
~3,995'	Open Perfs 13198-13289'
~4,065'	Open Perfs 13460-13549'
~4,592'	Open Perfs 13720-13851'
~5,056'	Open Perfs 14060-14191'
~5,280'	Mkr. Jr @ 14,394'
~5,592'	Open Perfs 14485-14599'
~5,804'	Open Perfs 14765-14857'
~6,062'	Open Perfs 15040-15151'
~6,262'	Open Perfs 15370-15451'
~6,462'	Open Perfs 15670-15776'
~6,662'	Open Perfs 15989-16091'
~6,862'	Open Perfs 16279-16375'
~7,062'	Open Perfs 16590-16676'
~7,262'	Open Perfs 16893-16987'
~7,462'	Open Perfs 17240-17330'
~7,662'	Open Perfs 17505-17585'
~7,862'	Open Perfs 17765-17851'
~8,062'	SS @ 18,169'

Geological Features (Right Side Labels):

- Rustler @ 1,857'
- Top of Salt @ 2,056'
- Base of Salt @ 3,467'
- Yates @ 3,783'
- Capitan @ 4,065'
- Delaware @ 5,592'
- Cherry Canyon @ 5,804'
- Brushy Canyon @ 6,862'
- Bone Spring @ 8,614'
- 1st Bone Spring @ 9,834'

Field Name		Lease Name		Well No.	API No.		Version	Version Tag		
Antelope Ridge		Igloo 19-24 State Fed Com		14Y	30025469080000		1	Completed		
Section	Township/Block		Range/Survey		County		State		GL (ft)	KB (ft)
19	20S		35E		Lea		New Mexico		3,694.0	3,715.0
Target N (-S) (ft)		Target E (-W) (ft)		Latitude		Longitude		Operator		Well Status
0		0		32.55499072		-103.49571433		Caza Operating		Completed
Additional Information										

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
96.1	0.3	79.7	96.1	-0.2	0.0	0.2	0.27
188.2	0.7	47.9	188.2	-0.9	0.4	0.8	0.52
280.3	0.8	63.4	280.3	-1.9	1.1	1.8	0.24
372.4	0.7	53.9	372.4	-3.0	1.7	2.8	0.14
464.5	0.8	35.2	464.5	-3.9	2.6	3.7	0.27
556.6	0.6	17.1	556.6	-4.5	3.5	4.2	0.31
648.7	0.7	15.1	648.7	-4.9	4.5	4.4	0.13
740.8	0.9	11.9	740.8	-5.3	5.7	4.7	0.23
832.9	1.0	13.0	832.8	-5.8	7.2	5.0	0.12
925.0	1.2	9.8	924.9	-6.4	8.9	5.4	0.19
1,017.1	1.4	13.7	1,017.0	-7.0	10.8	5.8	0.23
1,109.2	1.1	9.1	1,109.1	-7.6	12.8	6.2	0.27
1,201.3	1.1	16.2	1,201.2	-8.2	14.5	6.6	0.15
1,293.4	1.5	22.4	1,293.2	-9.1	16.5	7.3	0.46
1,385.5	1.3	18.4	1,385.3	-10.2	18.6	8.1	0.27
1,477.6	1.4	16.0	1,477.4	-11.0	20.7	8.7	0.12
1,569.7	1.7	7.1	1,569.5	-11.8	23.1	9.2	0.41
1,661.8	1.5	14.5	1,661.5	-12.5	25.6	9.7	0.30
1,753.9	1.3	14.8	1,753.6	-13.3	27.8	10.2	0.25
1,846.0	1.3	13.9	1,845.7	-14.0	29.8	10.8	0.09
1,915.0	1.6	14.0	1,914.6	-14.7	31.5	11.2	0.38
2,009.0	2.4	18.0	2,008.6	-15.9	34.6	12.1	0.86
2,103.0	3.7	24.0	2,102.5	-18.3	39.3	14.0	1.42
2,197.0	5.0	20.0	2,196.2	-21.7	45.9	16.6	1.42
2,291.0	6.1	26.0	2,289.7	-26.2	54.2	20.2	1.32
2,385.0	7.3	21.0	2,383.1	-31.6	64.3	24.5	1.42
2,479.0	8.6	21.0	2,476.2	-37.6	76.4	29.2	1.38
2,573.0	10.3	24.0	2,568.9	-45.1	90.7	35.1	1.88
2,602.0	11.2	25.7	2,597.4	-47.9	95.6	37.4	3.22
2,696.0	12.8	26.8	2,689.3	-58.5	113.1	46.0	1.78
2,790.0	11.7	25.9	2,781.2	-69.3	131.0	54.9	1.26
2,883.0	10.6	26.5	2,872.5	-79.0	147.1	62.8	1.20
2,978.0	9.8	26.9	2,966.0	-88.2	162.1	70.3	0.80
3,071.0	8.6	26.9	3,057.8	-96.3	175.3	77.1	1.30
3,166.0	6.9	32.1	3,151.9	-103.8	186.5	83.3	1.90
3,260.0	5.8	37.0	3,245.3	-110.6	195.1	89.2	1.31
3,353.0	5.1	42.1	3,337.9	-117.0	202.0	94.8	0.92
3,447.0	4.3	43.2	3,431.6	-122.8	207.6	100.0	0.92
3,542.0	3.9	39.5	3,526.3	-127.8	212.7	104.5	0.45
3,636.0	3.7	62.5	3,620.1	-132.9	216.5	109.2	1.63
3,729.0	5.3	119.2	3,712.9	-139.2	215.8	115.6	4.85
3,823.0	5.8	156.6	3,806.5	-144.1	209.3	121.3	3.82
3,917.0	5.8	183.5	3,900.0	-144.7	200.2	122.9	2.86
4,012.0	5.8	184.3	3,994.5	-143.0	190.7	122.3	0.09
4,106.0	6.0	182.9	4,088.0	-141.3	181.1	121.7	0.22
4,200.0	5.9	182.4	4,181.5	-139.7	171.4	121.2	0.07
4,294.0	6.5	182.0	4,275.0	-138.2	161.2	120.8	0.65
4,389.0	7.7	179.1	4,369.2	-136.8	149.5	120.7	1.30
4,484.0	8.0	181.0	4,463.4	-135.3	136.5	120.7	0.39
4,578.0	8.6	181.9	4,556.4	-133.5	123.0	120.4	0.65
4,672.0	10.0	181.1	4,649.2	-131.4	107.9	120.0	1.51
4,766.0	9.3	185.1	4,741.8	-128.8	92.2	119.1	0.97
4,861.0	10.1	183.9	4,835.5	-125.7	76.2	117.9	0.84

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
4,956.0	10.9	180.7	4,928.9	-123.1	58.9	117.2	1.02
5,051.0	11.9	180.5	5,022.0	-120.8	40.1	117.0	1.07
5,144.0	12.6	181.5	5,112.9	-118.2	20.4	116.6	0.77
5,226.0	12.8	181.6	5,192.9	-115.7	2.4	116.2	0.28
5,302.0	13.6	179.7	5,266.9	-113.5	-15.0	116.0	1.20
5,396.0	14.1	180.7	5,358.1	-110.9	-37.5	115.9	0.53
5,490.0	14.4	181.7	5,449.2	-107.8	-60.6	115.4	0.45
5,585.0	14.9	182.1	5,541.2	-104.3	-84.6	114.6	0.51
5,679.0	15.2	182.5	5,631.9	-100.6	-109.0	113.6	0.38
5,773.0	15.8	182.5	5,722.5	-96.7	-134.1	112.5	0.62
5,868.0	15.9	182.5	5,813.9	-92.7	-160.0	111.4	0.12
5,963.0	16.3	183.2	5,905.2	-88.4	-186.4	110.1	0.47
6,056.0	16.8	183.9	5,994.3	-83.8	-212.8	108.5	0.61
6,151.0	17.5	183.4	6,085.1	-78.9	-240.8	106.7	0.66
6,245.0	18.0	182.9	6,174.6	-74.1	-269.3	105.1	0.55
6,339.0	17.8	181.7	6,264.1	-69.7	-298.1	103.9	0.42
6,434.0	16.6	177.8	6,354.8	-66.6	-326.2	104.0	1.77
6,528.0	16.3	171.8	6,445.0	-66.0	-352.7	106.4	1.83
6,622.0	16.8	168.1	6,535.1	-67.7	-379.0	111.1	1.25
6,717.0	16.5	167.8	6,626.1	-70.3	-405.6	116.8	0.30
6,812.0	16.1	168.4	6,717.3	-72.8	-431.7	122.3	0.49
6,906.0	16.1	169.1	6,807.6	-75.0	-457.2	127.3	0.21
7,000.0	16.5	168.8	6,897.9	-77.1	-483.1	132.4	0.44
7,094.0	16.5	168.4	6,988.0	-79.4	-509.2	137.6	0.14
7,189.0	16.7	168.3	7,079.1	-81.8	-535.8	143.1	0.12
7,284.0	17.0	168.5	7,170.0	-84.3	-562.7	148.7	0.34
7,378.0	17.1	169.5	7,259.9	-86.5	-589.8	153.9	0.36
7,472.0	17.4	168.9	7,349.6	-88.6	-617.2	159.1	0.34
7,567.0	17.2	168.4	7,440.3	-91.0	-644.8	164.7	0.22
7,661.0	15.4	168.5	7,530.6	-93.3	-670.7	170.0	1.90
7,754.0	13.7	173.1	7,620.6	-94.5	-693.7	173.8	2.22
7,848.0	12.0	172.6	7,712.2	-94.7	-714.4	176.3	1.85
7,943.0	11.7	172.3	7,805.2	-95.1	-733.7	178.9	0.30
8,037.0	11.4	174.3	7,897.3	-95.2	-752.4	181.1	0.50
8,130.0	11.3	173.8	7,988.5	-95.0	-770.6	183.0	0.18
8,225.0	10.0	172.9	8,081.9	-95.0	-788.1	185.0	1.36
8,320.0	9.1	174.5	8,175.5	-95.0	-803.7	186.7	1.04
8,414.0	8.2	173.4	8,268.5	-94.9	-817.8	188.2	0.91
8,506.0	6.2	173.5	8,359.7	-94.9	-829.2	189.6	2.18
8,600.0	5.1	183.9	8,453.3	-94.2	-838.5	189.8	1.61
8,694.0	2.9	191.4	8,547.0	-92.7	-845.0	189.1	2.37
8,788.0	1.2	199.3	8,641.0	-91.5	-848.2	188.3	1.88
8,882.0	0.3	211.7	8,735.0	-91.0	-849.3	187.9	0.98
8,976.0	0.6	231.0	8,829.0	-90.4	-849.8	187.4	0.40
9,070.0	0.6	231.6	8,923.0	-89.6	-850.4	186.6	0.01
9,164.0	0.5	261.4	9,017.0	-88.7	-850.8	185.8	0.32
9,259.0	0.8	237.2	9,112.0	-87.7	-851.2	184.8	0.41
9,353.0	0.5	243.2	9,205.9	-86.7	-851.8	183.9	0.29
9,424.0	0.7	220.8	9,276.9	-86.1	-852.2	183.3	0.40
9,458.0	0.8	243.6	9,310.9	-85.7	-852.5	183.0	0.94
9,505.0	4.1	262.7	9,357.9	-83.8	-852.9	181.0	7.07
9,553.0	10.0	270.3	9,405.5	-77.9	-853.1	175.1	12.50
9,600.0	16.9	271.5	9,451.2	-67.1	-852.9	164.2	14.65
9,647.0	23.3	270.7	9,495.3	-51.1	-852.6	148.1	13.61
9,694.0	29.1	268.7	9,537.5	-30.4	-852.7	127.3	12.55
9,741.0	31.3	267.5	9,578.1	-6.9	-853.5	103.7	4.74
9,788.0	32.7	265.0	9,617.9	18.0	-855.1	78.9	4.16
9,834.0	37.4	265.9	9,655.6	44.4	-857.2	52.5	10.32
9,881.0	42.3	267.4	9,691.6	74.5	-858.9	22.5	10.61
9,928.0	46.0	268.0	9,725.4	107.1	-860.2	-10.2	7.81
9,975.0	49.8	268.2	9,756.9	141.9	-861.4	-45.1	8.17
10,023.0	55.9	269.3	9,785.8	180.0	-862.2	-83.3	12.87
10,070.0	61.2	271.7	9,810.3	219.7	-861.8	-123.4	12.05
10,117.0	64.9	272.0	9,831.6	261.2	-860.5	-165.3	7.93
10,164.0	67.5	272.1	9,850.6	303.7	-859.0	-208.3	5.49
10,211.0	71.5	272.7	9,867.0	347.2	-857.1	-252.2	8.59

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
10,258.0	74.0	272.8	9,881.0	391.5	-855.0	-297.1	5.24
10,304.0	75.9	271.7	9,892.9	435.4	-853.3	-341.4	4.90
10,351.0	81.7	271.1	9,902.1	481.1	-852.2	-387.5	12.36
10,398.0	84.8	270.4	9,907.6	527.4	-851.6	-434.2	6.75
10,445.0	90.3	270.4	9,909.6	574.0	-851.2	-481.1	11.77
10,492.0	91.8	270.8	9,908.7	620.6	-850.8	-528.1	3.12
10,586.0	93.1	268.9	9,904.7	714.0	-851.1	-622.0	2.48
10,703.0	94.2	268.4	9,897.3	830.3	-853.9	-738.7	1.01
10,797.0	93.7	269.1	9,890.9	923.6	-855.9	-832.5	0.87
10,892.0	92.6	268.3	9,885.6	1,018.1	-858.1	-927.3	1.47
10,987.0	93.5	267.8	9,880.6	1,112.7	-861.4	-1,022.1	1.07
11,081.0	94.1	267.3	9,874.4	1,206.3	-865.5	-1,115.8	0.90
11,175.0	95.0	268.3	9,866.9	1,299.7	-869.2	-1,209.5	1.37
11,269.0	95.8	268.4	9,858.1	1,393.0	-871.9	-1,303.0	0.88
11,364.0	96.5	267.7	9,848.0	1,487.1	-875.1	-1,397.4	1.05
11,457.0	96.2	268.7	9,837.7	1,579.3	-878.1	-1,489.8	1.09
11,552.0	94.9	269.2	9,828.5	1,673.4	-879.9	-1,584.3	1.53
11,647.0	93.3	269.2	9,821.7	1,767.7	-881.1	-1,679.1	1.62
11,740.0	93.8	269.0	9,815.9	1,860.1	-882.5	-1,771.9	0.58
11,834.0	92.7	269.4	9,810.6	1,953.4	-883.8	-1,865.7	1.30
11,928.0	92.8	269.3	9,806.1	2,046.8	-884.8	-1,959.6	0.23
12,022.0	93.1	268.9	9,801.2	2,140.3	-886.3	-2,053.5	0.51
12,116.0	92.7	269.8	9,796.4	2,233.7	-887.3	-2,147.3	1.08
12,210.0	93.1	269.4	9,791.6	2,327.0	-887.9	-2,241.2	0.61
12,304.0	92.7	270.2	9,786.9	2,420.3	-888.2	-2,335.1	0.96
12,398.0	93.3	270.1	9,781.9	2,513.6	-887.9	-2,429.0	0.70
12,492.0	92.8	270.5	9,776.9	2,606.8	-887.4	-2,522.8	0.70
12,586.0	92.7	270.7	9,772.4	2,699.9	-886.4	-2,616.7	0.22
12,681.0	93.3	270.8	9,767.4	2,794.1	-885.2	-2,711.6	0.56
12,775.0	94.6	270.7	9,760.9	2,887.1	-884.0	-2,805.3	1.44
12,870.0	94.4	270.2	9,753.5	2,981.1	-883.3	-2,900.1	0.64
12,964.0	96.4	270.0	9,744.7	3,074.1	-883.2	-2,993.6	2.15
13,059.0	97.1	269.6	9,733.5	3,167.9	-883.5	-3,088.0	0.85
13,153.0	98.1	269.6	9,721.1	3,260.5	-884.2	-3,181.1	1.09
13,248.0	96.7	270.4	9,708.9	3,354.1	-884.3	-3,275.4	1.69
13,342.0	93.9	269.9	9,700.2	3,447.1	-884.1	-3,368.9	3.03
13,436.0	92.0	270.3	9,695.3	3,540.4	-883.9	-3,462.8	2.04
13,531.0	93.6	270.1	9,690.6	3,634.6	-883.6	-3,557.7	1.71
13,625.0	92.1	269.9	9,685.9	3,727.9	-883.6	-3,651.6	1.68
13,720.0	92.0	269.0	9,682.5	3,822.3	-884.5	-3,746.5	0.93
13,814.0	91.9	268.6	9,679.4	3,915.9	-886.4	-3,840.4	0.48
13,908.0	91.3	267.9	9,676.7	4,009.5	-889.3	-3,934.4	0.90
14,002.0	93.5	268.6	9,672.8	4,103.1	-892.1	-4,028.2	2.44
14,097.0	93.9	268.5	9,666.6	4,197.5	-894.6	-4,123.0	0.39
14,191.0	93.2	267.9	9,660.8	4,291.0	-897.6	-4,216.8	0.95
14,285.0	93.3	267.4	9,655.4	4,384.6	-901.5	-4,310.5	0.51
14,379.0	94.1	268.3	9,649.3	4,478.2	-905.0	-4,404.3	1.27
14,474.0	94.9	267.9	9,641.8	4,572.6	-908.1	-4,498.9	0.94
14,568.0	93.4	268.7	9,634.9	4,666.0	-910.9	-4,592.6	1.77
14,663.0	91.2	269.7	9,631.1	4,760.5	-912.3	-4,687.5	2.63
14,757.0	91.0	269.6	9,629.4	4,853.9	-912.9	-4,781.5	0.15
14,852.0	91.5	271.1	9,627.2	4,948.2	-912.2	-4,876.5	1.65
14,945.0	93.6	272.1	9,623.1	5,040.2	-909.6	-4,969.3	2.43
15,040.0	93.9	271.5	9,616.9	5,134.0	-906.6	-5,064.1	0.75
15,134.0	95.5	271.6	9,609.2	5,226.7	-904.0	-5,157.7	1.63
15,227.0	93.4	270.8	9,602.0	5,318.6	-902.1	-5,250.4	2.37
15,322.0	94.6	270.6	9,595.4	5,412.7	-900.9	-5,345.2	1.29
15,415.0	95.8	270.4	9,586.9	5,504.6	-900.1	-5,437.8	1.23
15,510.0	94.6	269.6	9,578.4	5,598.6	-900.2	-5,532.4	1.51
15,603.0	92.7	269.3	9,572.5	5,690.9	-901.1	-5,625.2	1.98
15,698.0	93.3	269.7	9,567.5	5,785.3	-901.9	-5,720.1	0.79
15,793.0	94.7	270.2	9,560.8	5,879.4	-902.0	-5,814.8	1.55
15,888.0	96.0	270.1	9,551.9	5,973.4	-901.8	-5,909.4	1.32
15,982.0	96.1	269.8	9,542.0	6,066.3	-901.9	-6,002.9	0.32
16,075.0	96.6	269.2	9,531.7	6,158.2	-902.7	-6,095.3	0.82
16,170.0	94.9	269.1	9,522.2	6,252.3	-904.1	-6,189.8	1.80

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
16,264.0	92.8	269.3	9,515.9	6,345.6	-905.4	-6,283.6	2.28
16,358.0	90.8	269.6	9,513.0	6,439.1	-906.3	-6,377.5	2.18
16,453.0	89.9	270.3	9,512.5	6,533.5	-906.4	-6,472.5	1.18
16,547.0	88.8	269.8	9,513.6	6,626.8	-906.3	-6,566.5	1.27
16,640.0	87.0	270.1	9,516.9	6,719.2	-906.4	-6,659.5	1.91
16,734.0	86.0	270.4	9,522.7	6,812.4	-906.0	-6,753.3	1.19
16,829.0	84.7	270.3	9,530.4	6,906.4	-905.5	-6,848.0	1.31
16,924.0	84.8	270.5	9,539.0	7,000.3	-904.9	-6,942.6	0.25
17,019.0	86.7	270.2	9,546.0	7,094.4	-904.3	-7,037.3	2.01
17,113.0	84.2	270.1	9,553.4	7,187.5	-904.1	-7,131.0	2.67
17,206.0	83.7	270.0	9,563.2	7,279.4	-904.0	-7,223.5	0.53
17,301.0	83.8	269.3	9,573.5	7,373.3	-904.6	-7,317.9	0.67
17,395.0	83.9	268.6	9,583.6	7,466.3	-906.3	-7,411.4	0.79
17,490.0	85.6	268.5	9,592.3	7,560.5	-908.7	-7,505.9	1.74
17,584.0	85.6	268.0	9,599.5	7,653.9	-911.6	-7,599.6	0.56
17,678.0	85.3	267.5	9,607.0	7,747.4	-915.2	-7,693.3	0.60
17,773.0	85.0	267.1	9,615.0	7,841.8	-919.7	-7,787.8	0.53
17,867.0	84.6	266.5	9,623.5	7,935.3	-924.9	-7,881.3	0.72
17,962.0	85.0	266.1	9,632.1	8,029.8	-931.0	-7,975.7	0.66
18,009.0	84.6	265.2	9,636.3	8,076.6	-934.6	-8,022.4	2.11
18,065.0	84.6	265.2	9,641.6	8,132.3	-939.3	-8,077.9	0.00

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Energy, Minerals and Natural Resources
Oil Conservation Division
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ACKNOWLEDGMENTS

Action 28651

ACKNOWLEDGMENTS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 28651
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☐	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☐	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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
District IV
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

CONDITIONS

Action 28651

CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 28651
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
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