

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Caza Operating LLC 200 N. Lorraine St. #1550, Midland, TX 79701		² OGRID Number 249099	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30 - 0 25-46602	⁵ Pool Name Lea; Bone Spring		⁶ Pool Code 37570
⁷ Property Code 313780	⁸ Property Name Igloo 19-24 State Fed Com		⁹ Well Number 15H

II. ¹⁰ Surface Location

UI or lot no. J	Section 19	Township 20S	Range 35E	Lot Idn	Feet from the 1570	North/South Line South	Feet from the 2365	East/West line East	County Lea
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¹¹ Bottom Hole Location

UL or lot no. L	Section 24	Township 20S	Range 35E	Lot Idn	Feet from the 1660	North/South line South	Feet from the 21	East/West line West	County Lea
¹² Lse Code S	¹³ Producing Method Code 13		¹⁴ Gas Connection Date 2/10/2021		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
214984	Plains Marketing LP 3705 TX-158, Midland TX 79706	O
159160	Versado Gas Processors LLC 6 Desta Dr #300, Midland TX 79705	G
329179	ARM Midstream Management LLC 6 Desta Dr #3400, Midland TX 79705	W

IV. Well Completion Data

²¹ Spud Date 12/25/2019	²² Ready Date 2/2/2021	²³ TD 18197	²⁴ PBTD 18030	²⁵ Perforations 10431 - 18030	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17.5		13.375	2021		1305
12.25		9.625	5245		2325
8.75		5.5	18197		2530
		2.875	9177		

V. Well Test Data

³¹ Date New Oil 2/6/2021	³² Gas Delivery Date 2/6/2021	³³ Test Date 2/26/2021	³⁴ Test Length 24	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size 64	³⁸ Oil 641	³⁹ Water 1483	⁴⁰ Gas 1748		⁴¹ Test Method gas lift
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Steve Morris			Approved by: KURT SIMMONS		
Title: Engineer			Title: NMOCD, SANTA FE		
E-mail Address: steve.morris@morcorengineering.com			Approval Date: 07/21/2021		
Date: 3/4/2021		Phone: 985-415-9729			

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		³ Reason for Filing Code/ Effective Date NW	
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⁷ Property Code 313780	⁸ Property Name Igloo 19-24 State Fed Com		⁹ Well Number 15H

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⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Steve Morris			Approved by: KURT SIMMONS		
Title: Engineer			Title: NMOCD, SANTA FE		
E-mail Address: steve.morris@morcorengineering.com			Approval Date: 07/21/2021		
Date: 3/4/2021		Phone: 985-415-9729			



Caza Operating, LLC

Lea County, New Mexico (NAD83)

Igloo 19-24 State Fed Com

15H

OH / 65994

Survey: Phoenix MWD Surveys

Standard Survey Report

29 January, 2020





Survey Report



Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well 15H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	KB @ 3715.00usft (Nabors M51)
Site:	Igloo 19-24 State Fed Com	MD Reference:	KB @ 3715.00usft (Nabors M51)
Well:	15H	North Reference:	Grid
Wellbore:	OH / 65994	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors M51)	Database:	USA Compass

Project	Lea County, New Mexico (NAD83)		
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			
Site Position:		Northing:	565,735.77 usft	Latitude:	32° 33' 8.917176 N
From:	Map	Easting:	799,276.50 usft	Longitude:	103° 29' 46.298362 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45 °

Well	15H					
Well Position	+N/-S	0.00 usft	Northing:	566,907.10 usft	Latitude:	32° 33' 20.495982 N
	+E/-W	0.00 usft	Easting:	799,416.60 usft	Longitude:	103° 29' 44.553959 W
Position Uncertainty		1.00 usft	Wellhead Elevation:	usft	Ground Level:	3,693.00 usft

Wellbore	OH / 65994				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	1/2/2020	6.55	60.44	48,047.14396717

Design	Surveys (Nabors M51)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	270.39	

Survey Program	Date	1/29/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	5,274.00	VES Gyro Surveys (OH / 65994)	NS-GYRO-MS	North sensing gyrocompassing m/s	
5,299.00	18,200.00	Phoenix MWD Surveys (OH / 65994)	MWD+HRGM	OWSG MWD + HRGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,274.00	24.76	35.80	5,176.91	658.99	121.94	-117.45	0.00	0.00	0.00	
Tie In										
5,299.00	24.46	35.43	5,199.64	667.45	128.00	-123.46	1.35	-1.20	-1.48	
First Phoenix MWD Survey										
5,394.00	23.23	35.67	5,286.53	698.70	150.33	-145.57	1.30	-1.29	0.25	
5,489.00	20.65	33.47	5,374.64	727.90	170.50	-165.54	2.85	-2.72	-2.32	
5,583.00	18.30	33.83	5,463.26	753.99	187.86	-182.72	2.50	-2.50	0.38	
5,677.00	15.77	38.33	5,553.13	776.27	204.00	-198.71	3.03	-2.69	4.79	
5,772.00	13.37	42.91	5,645.07	794.45	219.49	-214.07	2.80	-2.53	4.82	



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Well:	15H	North Reference:	Grid
Wellbore:	OH / 65994	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors M51)	Database:	USA Compass

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,865.00	10.29	52.16	5,736.10	807.42	233.37	-227.87	3.88	-3.31	9.95	
5,960.00	7.26	62.80	5,829.98	815.37	245.41	-239.86	3.61	-3.19	11.20	
6,054.00	4.17	78.48	5,923.51	818.77	254.05	-248.47	3.65	-3.29	16.68	
6,149.00	3.42	119.18	6,018.31	818.08	259.91	-254.33	2.87	-0.79	42.84	
6,242.00	4.80	150.20	6,111.08	813.35	264.26	-258.72	2.76	1.48	33.35	
6,337.00	6.23	163.90	6,205.64	804.95	267.67	-262.18	2.04	1.51	14.42	
6,431.00	8.14	169.71	6,298.90	793.50	270.27	-264.86	2.17	2.03	6.18	
6,525.00	10.15	178.48	6,391.71	778.67	271.68	-266.37	2.60	2.14	9.33	
6,620.00	11.50	183.82	6,485.02	760.85	271.27	-266.09	1.77	1.42	5.62	
6,716.00	10.74	183.03	6,579.21	742.37	270.16	-265.10	0.81	-0.79	-0.82	
6,810.00	10.44	188.05	6,671.62	725.19	268.51	-263.56	1.03	-0.32	5.34	
6,905.00	10.21	194.07	6,765.08	708.50	265.25	-260.42	1.16	-0.24	6.34	
7,000.00	9.96	192.76	6,858.61	692.32	261.39	-256.67	0.36	-0.26	-1.38	
7,094.00	9.88	192.46	6,951.21	676.52	257.86	-253.25	0.10	-0.09	-0.32	
7,188.00	9.79	192.33	7,043.83	660.84	254.41	-249.91	0.10	-0.10	-0.14	
7,282.00	9.76	191.13	7,136.46	645.21	251.17	-246.77	0.22	-0.03	-1.28	
7,376.00	10.36	191.39	7,229.02	629.11	247.96	-243.67	0.64	0.64	0.28	
7,470.00	11.74	192.55	7,321.27	611.49	244.21	-240.04	1.49	1.47	1.23	
7,564.00	12.98	195.30	7,413.09	591.97	239.35	-235.31	1.46	1.32	2.93	
7,658.00	13.76	195.78	7,504.54	571.03	233.52	-229.63	0.84	0.83	0.51	
7,753.00	13.45	195.66	7,596.88	549.52	227.47	-223.72	0.33	-0.33	-0.13	
7,847.00	12.97	195.22	7,688.39	528.81	221.75	-218.14	0.52	-0.51	-0.47	
7,942.00	12.57	195.06	7,781.04	508.54	216.26	-212.79	0.42	-0.42	-0.17	
8,034.00	12.05	195.30	7,870.92	489.61	211.13	-207.79	0.57	-0.57	0.26	
8,129.00	11.59	191.43	7,963.91	470.69	206.62	-203.41	0.96	-0.48	-4.07	
8,223.00	11.09	189.61	8,056.08	452.52	203.24	-200.15	0.65	-0.53	-1.94	
8,317.00	10.75	190.50	8,148.37	434.99	200.13	-197.17	0.40	-0.36	0.95	
8,412.00	10.51	189.29	8,241.74	417.73	197.12	-194.27	0.34	-0.25	-1.27	
8,506.00	9.99	188.59	8,334.24	401.21	194.52	-191.78	0.57	-0.55	-0.74	
8,600.00	10.17	188.75	8,426.79	384.94	192.04	-189.41	0.19	0.19	0.17	
8,694.00	10.18	188.94	8,519.31	368.53	189.48	-186.97	0.04	0.01	0.20	
8,788.00	9.73	188.58	8,611.90	352.47	187.01	-184.60	0.48	-0.48	-0.38	
8,883.00	9.79	190.24	8,705.52	336.59	184.37	-182.08	0.30	0.06	1.75	
8,977.00	9.03	191.24	8,798.26	321.49	181.51	-179.32	0.83	-0.81	1.06	
9,071.00	8.30	192.65	8,891.18	307.63	178.59	-176.49	0.81	-0.78	1.50	
9,165.00	9.12	192.95	8,984.10	293.75	175.44	-173.43	0.87	0.87	0.32	
9,260.00	9.80	194.84	9,077.81	278.60	171.68	-169.78	0.79	0.72	1.99	
9,354.00	9.97	198.23	9,170.41	263.14	167.08	-165.29	0.64	0.18	3.61	
9,459.00	10.77	192.70	9,273.70	244.93	162.08	-160.41	1.22	0.76	-5.27	
9,554.00	10.73	189.87	9,367.03	227.56	158.61	-157.06	0.56	-0.04	-2.98	
9,601.00	10.90	194.98	9,413.20	218.96	156.72	-155.22	2.07	0.36	10.87	
9,648.00	14.68	214.91	9,459.05	209.77	152.16	-150.72	12.25	8.04	42.40	
9,695.00	21.04	220.00	9,503.76	198.41	143.31	-141.96	13.92	13.53	10.83	



Survey Report



Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well 15H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	KB @ 3715.00usft (Nabors M51)
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9,742.00	27.86	228.23	9,546.53	184.61	129.68	-128.42	16.19	14.51	17.51	
9,789.00	34.73	234.46	9,586.68	169.49	110.57	-109.41	16.14	14.62	13.26	
9,835.00	39.66	241.49	9,623.33	154.86	86.98	-85.93	14.14	10.72	15.28	
9,882.00	43.90	249.76	9,658.40	142.04	58.48	-57.51	14.78	9.02	17.60	
9,929.00	47.10	256.71	9,691.36	132.44	26.41	-25.51	12.55	6.81	14.79	
9,976.00	50.15	260.79	9,722.43	125.59	-8.17	9.03	9.19	6.49	8.68	
10,023.00	53.08	266.35	9,751.62	121.51	-44.76	45.58	11.17	6.23	11.83	
10,070.00	57.22	269.10	9,778.48	120.00	-83.28	84.10	10.03	8.81	5.85	
10,118.00	62.10	270.99	9,802.72	120.05	-124.69	125.51	10.72	10.17	3.94	
10,165.00	67.36	271.08	9,822.77	120.82	-167.17	167.99	11.19	11.19	0.19	
10,212.00	72.27	270.69	9,838.99	121.49	-211.27	212.09	10.48	10.45	-0.83	
10,259.00	77.00	270.57	9,851.44	121.99	-256.57	257.40	10.07	10.06	-0.26	
10,307.00	79.04	270.14	9,861.40	122.28	-303.52	304.35	4.34	4.25	-0.90	
10,354.00	81.43	269.68	9,869.37	122.21	-349.84	350.66	5.18	5.09	-0.98	
10,401.00	85.63	269.22	9,874.66	121.76	-396.53	397.35	8.99	8.94	-0.98	
10,448.00	89.64	269.28	9,876.60	121.15	-443.47	444.29	8.53	8.53	0.13	
10,494.00	91.96	269.28	9,875.96	120.57	-489.46	490.27	5.04	5.04	0.00	
10,585.00	93.84	269.14	9,871.36	119.31	-580.33	581.13	2.07	2.07	-0.15	
10,680.00	94.03	269.48	9,864.84	118.17	-675.10	675.89	0.41	0.20	0.36	
10,774.00	93.95	269.96	9,858.30	117.72	-768.87	769.66	0.52	-0.09	0.51	
10,869.00	93.67	270.43	9,851.98	118.04	-863.66	864.45	0.57	-0.29	0.49	
10,963.00	93.56	270.82	9,846.06	119.06	-957.47	958.26	0.43	-0.12	0.41	
11,057.00	93.67	272.20	9,840.13	121.53	-1,051.25	1,052.05	1.47	0.12	1.47	
11,151.00	93.90	272.14	9,833.93	125.08	-1,144.97	1,145.80	0.25	0.24	-0.06	
11,245.00	93.59	269.06	9,827.78	126.07	-1,238.76	1,239.59	3.29	-0.33	-3.28	
11,339.00	95.32	268.43	9,820.48	124.01	-1,332.45	1,333.26	1.96	1.84	-0.67	
11,432.00	94.96	269.06	9,812.15	121.99	-1,425.05	1,425.85	0.78	-0.39	0.68	
11,526.00	94.99	269.24	9,804.00	120.60	-1,518.69	1,519.47	0.19	0.03	0.19	
11,620.00	94.99	269.91	9,795.82	119.90	-1,612.33	1,613.11	0.71	0.00	0.71	
11,714.00	95.30	270.11	9,787.39	119.92	-1,705.95	1,706.72	0.39	0.33	0.21	
11,809.00	95.52	270.23	9,778.44	120.20	-1,800.52	1,801.30	0.26	0.23	0.13	
11,902.00	93.72	269.25	9,770.95	119.78	-1,893.22	1,893.99	2.20	-1.94	-1.05	
11,997.00	93.00	269.08	9,765.38	118.40	-1,988.04	1,988.80	0.78	-0.76	-0.18	
12,091.00	92.38	267.26	9,760.97	115.40	-2,081.89	2,082.62	2.04	-0.66	-1.94	
12,185.00	92.04	264.82	9,757.34	108.91	-2,175.58	2,176.28	2.62	-0.36	-2.60	
12,279.00	92.43	264.25	9,753.67	99.96	-2,269.09	2,269.71	0.73	0.41	-0.61	
12,374.00	92.21	263.80	9,749.83	90.08	-2,363.49	2,364.05	0.53	-0.23	-0.47	
12,468.00	97.40	268.81	9,741.95	84.04	-2,456.90	2,457.42	7.66	5.52	5.33	
12,562.00	95.49	271.40	9,731.40	84.21	-2,550.30	2,550.81	3.41	-2.03	2.76	
12,657.00	93.98	271.23	9,723.56	86.38	-2,644.94	2,645.47	1.60	-1.59	-0.18	
12,751.00	94.26	271.25	9,716.80	88.41	-2,738.68	2,739.22	0.30	0.30	0.02	
12,845.00	93.81	271.13	9,710.19	90.36	-2,832.43	2,832.98	0.50	-0.48	-0.13	
12,940.00	93.11	271.46	9,704.46	92.50	-2,927.23	2,927.79	0.81	-0.74	0.35	
13,034.00	91.26	271.25	9,700.87	94.72	-3,021.13	3,021.70	1.98	-1.97	-0.22	



Survey Report



Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well 15H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	KB @ 3715.00usft (Nabors M51)
Site:	Igloo 19-24 State Fed Com	MD Reference:	KB @ 3715.00usft (Nabors M51)
Well:	15H	North Reference:	Grid
Wellbore:	OH / 65994	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors M51)	Database:	USA Compass

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,128.00	93.33	271.84	9,697.11	97.26	-3,115.01	3,115.60	2.29	2.20	0.63	
13,222.00	91.12	270.07	9,693.46	98.82	-3,208.92	3,209.52	3.01	-2.35	-1.88	
13,317.00	92.07	269.40	9,690.82	98.38	-3,303.88	3,304.47	1.22	1.00	-0.71	
13,410.00	95.07	268.24	9,685.02	96.47	-3,396.67	3,397.25	3.46	3.23	-1.25	
13,505.00	95.18	267.53	9,676.54	92.98	-3,491.22	3,491.78	0.75	0.12	-0.75	
13,615.00	96.21	269.07	9,665.62	89.73	-3,600.63	3,601.16	1.68	0.94	1.40	
13,709.00	94.59	271.67	9,656.77	90.34	-3,694.20	3,694.73	3.25	-1.72	2.77	
13,804.00	92.68	273.40	9,650.75	94.53	-3,788.91	3,789.46	2.71	-2.01	1.82	
13,898.00	95.15	274.09	9,644.33	100.66	-3,882.48	3,883.07	2.73	2.63	0.73	
13,993.00	91.90	273.32	9,638.49	106.78	-3,977.09	3,977.72	3.52	-3.42	-0.81	
14,087.00	92.24	272.84	9,635.10	111.83	-4,070.89	4,071.56	0.63	0.36	-0.51	
14,182.00	90.59	272.40	9,632.75	116.17	-4,165.76	4,166.45	1.80	-1.74	-0.46	
14,276.00	92.52	271.44	9,630.20	119.32	-4,259.67	4,260.38	2.29	2.05	-1.02	
14,370.00	94.92	271.68	9,624.10	121.87	-4,353.43	4,354.15	2.57	2.55	0.26	
14,464.00	94.34	270.15	9,616.52	123.37	-4,447.10	4,447.84	1.74	-0.62	-1.63	
14,559.00	94.47	270.04	9,609.22	123.52	-4,541.82	4,542.56	0.18	0.14	-0.12	
14,653.00	94.17	268.75	9,602.14	122.53	-4,635.55	4,636.28	1.41	-0.32	-1.37	
14,747.00	93.80	268.83	9,595.61	120.55	-4,729.30	4,730.01	0.40	-0.39	0.09	
14,841.00	92.91	269.27	9,590.10	119.00	-4,823.12	4,823.82	1.06	-0.95	0.47	
14,935.00	92.49	269.97	9,585.68	118.38	-4,917.02	4,917.71	0.87	-0.45	0.74	
15,029.00	92.63	269.74	9,581.48	118.14	-5,010.92	5,011.61	0.29	0.15	-0.24	
15,124.00	94.73	269.32	9,575.38	117.36	-5,105.72	5,106.40	2.25	2.21	-0.44	
15,218.00	92.91	269.14	9,569.12	116.10	-5,199.50	5,200.17	1.95	-1.94	-0.19	
15,312.00	88.01	269.35	9,568.36	114.86	-5,293.46	5,294.12	5.22	-5.21	0.22	
15,406.00	88.01	268.76	9,571.63	113.31	-5,387.39	5,388.03	0.63	0.00	-0.63	
15,500.00	89.80	268.62	9,573.42	111.16	-5,481.34	5,481.97	1.91	1.90	-0.15	
15,595.00	91.79	267.52	9,572.11	107.97	-5,576.27	5,576.88	2.39	2.09	-1.16	
15,689.00	91.01	268.03	9,569.81	104.32	-5,670.17	5,670.75	0.99	-0.83	0.54	
15,783.00	91.06	268.49	9,568.11	101.46	-5,764.11	5,764.67	0.49	0.05	0.49	
15,877.00	90.45	268.34	9,566.87	98.86	-5,858.07	5,858.61	0.67	-0.65	-0.16	
15,972.00	87.93	266.21	9,568.22	94.35	-5,952.94	5,953.44	3.47	-2.65	-2.24	
16,066.00	90.87	266.25	9,569.20	88.17	-6,046.72	6,047.18	3.13	3.13	0.04	
16,159.00	91.51	268.02	9,567.27	83.52	-6,139.58	6,140.01	2.02	0.69	1.90	
16,253.00	91.32	268.68	9,564.95	80.82	-6,233.51	6,233.92	0.73	-0.20	0.70	
16,347.00	90.84	267.98	9,563.18	78.08	-6,327.45	6,327.84	0.90	-0.51	-0.74	
16,441.00	91.34	268.42	9,561.39	75.13	-6,421.39	6,421.75	0.71	0.53	0.47	
16,536.00	89.08	268.16	9,561.04	72.29	-6,516.34	6,516.68	2.39	-2.38	-0.27	
16,630.00	90.50	267.52	9,561.38	68.75	-6,610.27	6,610.59	1.66	1.51	-0.68	
16,723.00	91.15	267.43	9,560.04	64.65	-6,703.17	6,703.46	0.71	0.70	-0.10	
16,819.00	89.64	268.09	9,559.38	60.90	-6,799.09	6,799.35	1.72	-1.57	0.69	
16,913.00	88.32	268.78	9,561.06	58.33	-6,893.04	6,893.28	1.58	-1.40	0.73	
17,007.00	89.08	268.00	9,563.19	55.69	-6,986.98	6,987.19	1.16	0.81	-0.83	
17,102.00	88.99	268.01	9,564.79	52.39	-7,081.91	7,082.10	0.10	-0.09	0.01	



Survey Report



Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well 15H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	KB @ 3715.00usft (Nabors M51)
Site:	Igloo 19-24 State Fed Com	MD Reference:	KB @ 3715.00usft (Nabors M51)
Well:	15H	North Reference:	Grid
Wellbore:	OH / 65994	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors M51)	Database:	USA Compass

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
17,196.00	84.39	268.09	9,570.21	49.19	-7,175.67	7,175.84	4.89	-4.89	0.09	
17,290.00	86.47	269.17	9,577.70	46.95	-7,269.34	7,269.49	2.49	2.21	1.15	
17,385.00	87.20	268.81	9,582.95	45.28	-7,364.18	7,364.31	0.86	0.77	-0.38	
17,480.00	88.68	267.69	9,586.36	42.38	-7,459.07	7,459.18	1.95	1.56	-1.18	
17,574.00	89.24	269.19	9,588.07	39.82	-7,553.01	7,553.11	1.70	0.60	1.60	
17,669.00	89.50	269.00	9,589.11	38.32	-7,648.00	7,648.08	0.34	0.27	-0.20	
17,763.00	88.43	267.72	9,590.81	35.63	-7,741.94	7,742.00	1.77	-1.14	-1.36	
17,857.00	88.43	267.26	9,593.39	31.52	-7,835.81	7,835.85	0.49	0.00	-0.49	
17,951.00	89.55	267.80	9,595.05	27.47	-7,929.71	7,929.71	1.32	1.19	0.57	
18,046.00	88.12	267.87	9,596.98	23.88	-8,024.62	8,024.60	1.51	-1.51	0.07	
18,133.00	89.55	267.93	9,598.75	20.69	-8,111.54	8,111.49	1.65	1.64	0.07	
Final Phoenix MWD Survey										
18,200.00	89.55	267.93	9,599.27	18.27	-8,178.49	8,178.43	0.00	0.00	0.00	
Projection to TD										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,274.00	5,176.91	658.99	121.94	Tie In	
5,299.00	5,199.64	667.45	128.00	First Phoenix MWD Survey	
18,133.00	9,598.75	20.69	-8,111.54	Final Phoenix MWD Survey	
18,200.00	9,599.27	18.27	-8,178.49	Projection to TD	

The survey is true and accurate to the best of my knowledge.

Steve Morris

Submit a 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. 30-025-46602
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 15H
9. OGRID Number 249099
10. Pool name or Wildcat
4. Well Location Unit Letter O ; 1570 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.) 3693'GR

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

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 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.

2/2/2021 - Production casing was perf'd from 10,431'MD - 18,030'MD with 0.42" perf size and 8 shots per foot. The well was fracked with 20,480,075lbs of sand.

Spud Date:

12/16/2019

Rig Release Date:

11/25/2020

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

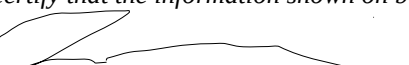
For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

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. 30-025-46602								2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN		
3. State Oil & Gas Lease No.								5. Lease Name or Unit Agreement Name Igloo 19-24 State Fed Com		
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								6. Well Number: 15H		
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)								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:	J	19	20S	35E		1570	South	2365	East	Lea
BH:	L	24	20S	35E		1660	South	21	West	Lea
13. Date Spudded 12/25/2019	14. Date T.D. Reached 1/28/2020		15. Date Rig Released 2/1/2020			16. Date Completed (Ready to Produce) 2/2/2021		17. Elevations (DF and RKB, RT, GR, etc.) 3693' GR		
18. Total Measured Depth of Well 18197			19. Plug Back Measured Depth 18030			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 9561' - 9876'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		2021		17.5		1305sx		
9.625		40		5245		12.25		2325sx		
5.5		20		18197		8.75		2530sx		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD		SIZE		DEPTH SET
								2.875		9177
										9170
26. Perforation record (interval, size, and number)										
10,431 - 18,030', 0.42, 8 shots per foot						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						10,431' - 18,030'		20,480,075bs sand		
28. PRODUCTION										
Date First Production 2/3/2021		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) gas lift				Well Status (<i>Prod. or Shut-in</i>) producing				
Date of Test 2/26/2021	Hours Tested 24	Choke Size 64	Prod'n For Test Period	Oil - Bbl 641	Gas - MCF 1748	Water - Bbl. 1483	Gas - Oil Ratio 2.84:1			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 641	Gas - MCF 1748	Water - Bbl. 1483	Oil Gravity - API - (<i>Corr.</i>) 40.7				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) 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.

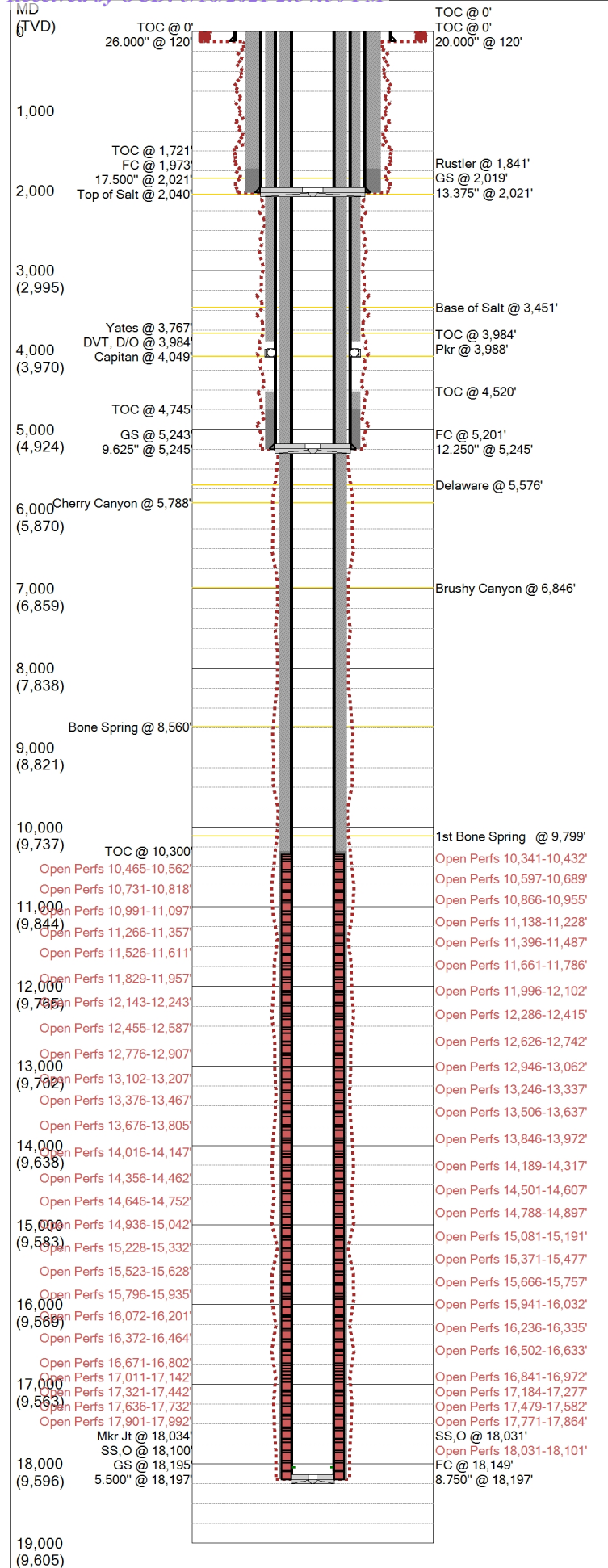
Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. 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



Last Updated: 4/7/2021 05:21 AM

Field Name			Lease Name			Well No.			
Antelope Ridge			Igloo 19-24 State Fed Com			15H			
County			State			API No.			
Lea			New Mexico			30-025-46602			
Version		Version Tag							
1		Completed							
GL (ft)		KB (ft)		Section	Township/Block		Range/Survey		
3,693.0		3,714.0		19	20S		35E		
Operator				Well Status		Latitude		Longitude	
Caza Operating				Completed		32.55569161		-103.49571422	
Dist. N/S (ft)		N/S Line		Dist. E/W (ft)		E/W Line		Footage From	
1570		FSL		2365		FEL		SECTION	
Prop Num					Spud Date		Comp. Date		
313780					12/18/2019		2/2/2021		
Additional Information									
OGRID			Pool Name and Code		Well Type		Dedicated Acres		
249099			Lea Bone Spring: South (37580)		Hz, Oil		240.06		
Prepared By				Updated By			Last Updated		
Steve Morris				Steve Morris			4/7/2021 5:21 AM		
Hole Summary									
Date		Diam. (in)	Top (MD ft)	Bottom (MD ft)	Comments				
		26.000	0	120					
		17.500	120	2,021					
		12.250	2,021	5,245					
		8.750	5,245	18,197					
Tubular Summary									
Date		Description		O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	
		Conductor Casing		20.000	94.00	H40	0	120	
		Surface Casing		13.375	54.50	J55	0	2,021	
		Intermediate Casing		9.625	40.00	HCL80	0	5,245	
		Production Casing		5.500	20.00	P110	0	18,197	
Casing Cement Summary									
C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments			
		990	13.375	0	1,721	Circulate 377sx to surface			
		315	13.375	1,721	2,021				
		1,600	9.625	0	3,894	Circulate 283sx to surface			
		150	9.625	3,984	3,994				
		365	9.625	4,520	4,745	TOC @ 4520 from CBL			
		210	9.625	4,745	5,245				
		950	5.500	0	10,300	Circulate 295sx to surface			
		1,580	5.500	10,300	18,197				
Tools/Problems Summary									
Date		Tool Type		O.D. (in)	I.D. (in)	Top (MD ft)		Bottom (MD ft)	
		FC		13.375	0.000	1,973			
		GS		13.375	0.000	2,019			
		DVT, D/O		9.625	0.000	3,984			
		Pkr		12.250	9.625	3,988			
		FC		9.625	0.000	5,201			

Last Updated: 4/7/2021 05:21 AM

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
	GS	9.625	0.000	5,243	
	SS,O	5.500	0.000	18,031	18,034
	Mkr Jt	5.500	0.000	18,034	18,057
	SS,O	5.500	0.000	18,100	18,104
	FC	5.500	0.000	18,149	
	GS	5.500	0.000	18,195	

Perforation Summary

C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)
		Open	1st Bone Spring	10341	10,432
		Open	1st Bone Spring	10465	10,562
		Open	1st Bone Spring	10597	10,689
		Open	1st Bone Spring	10731	10,818
		Open	1st Bone Spring	10866	10,955
		Open	1st Bone Spring	10991	11,097
		Open	1st Bone Spring	11138	11,228
		Open	1st Bone Spring	11266	11,357
		Open	1st Bone Spring	11396	11,487
		Open	1st Bone Spring	11526	11,611
		Open	1st Bone Spring	11661	11,786
		Open	1st Bone Spring	11829	11,957
		Open	1st Bone Spring	11996	12,102
		Open	1st Bone Spring	12143	12,243
		Open	1st Bone Spring	12286	12,415
		Open	1st Bone Spring	12455	12,587
		Open	1st Bone Spring	12626	12,742
		Open	1st Bone Spring	12776	12,907
		Open	1st Bone Spring	12946	13,062
		Open	1st Bone Spring	13102	13,207
		Open	1st Bone Spring	13246	13,337
		Open	1st Bone Spring	13376	13,467
		Open	1st Bone Spring	13506	13,637
		Open	1st Bone Spring	13676	13,805
		Open	1st Bone Spring	13846	13,972
		Open	1st Bone Spring	14016	14,147
		Open	1st Bone Spring	14189	14,317
		Open	1st Bone Spring	14356	14,462
		Open	1st Bone Spring	14501	14,607
		Open	1st Bone Spring	14646	14,752
		Open	1st Bone Spring	14788	14,897
		Open	1st Bone Spring	14936	15,042
		Open	1st Bone Spring	15081	15,191
		Open	1st Bone Spring	15228	15,332
		Open	1st Bone Spring	15371	15,477
		Open	1st Bone Spring	15523	15,628
		Open	1st Bone Spring	15666	15,757
		Open	1st Bone Spring	15796	15,935
		Open	1st Bone Spring	15941	16,032
		Open	1st Bone Spring	16072	16,201
		Open	1st Bone Spring	16236	16,335
		Open	1st Bone Spring	16372	16,464
		Open	1st Bone Spring	16502	16,633
		Open	1st Bone Spring	16671	16,802
		Open	1st Bone Spring	16841	16,972

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C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)
		Open	1st Bone Spring	17011	17,142
		Open	1st Bone Spring	17184	17,277
		Open	1st Bone Spring	17321	17,442
		Open	1st Bone Spring	17479	17,582
		Open	1st Bone Spring	17636	17,732
		Open	1st Bone Spring	17771	17,864
		Open	1st Bone Spring	17901	17,992
		Open	1st Bone Spring	18031	18,101

Formation Tops Summary

Formation	Top (TVD ft)	Comments
Rustler	1,841	
Top of Salt	2,040	
Base of Salt	3,451	
Yates	3,767	
Capitan	4,049	
Delaware	5,576	
Cherry Canyon	5,788	
Brushy Canyon	6,846	
Bone Spring	8,560	
1st Bone Spring	9,799	

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Field Name		Lease Name		Well No.	County	State		API No.	
Antelope Ridge		Igloo 19-24 State Fed Com		15H	Lea	New Mexico		30025466020000	
Version	Version Tag				Spud Date		Comp. Date	GL (ft)	KB (ft)
1	Completed				12/18/2019		2/2/2021	3,693.0	3,714.0
Section	Township/Block		Range/Survey		Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From
19	20S		35E		1,570	FSL	2,365	FEL	SECTION
Operator			Well Status			Latitude		Longitude	Prop Num
Caza Operating			Completed			32.55569161		-103.49571422	313780
OGRID		Pool Name and Code		Well Type				Dedicated Acres	
249099		Lea Bone Spring: South (37580)		Hz, Oil				240.06	
Last Updated		Prepared By				Updated By			
04/07/2021 5:21 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	2,021	
	12.250	2,021	5,245	
	8.750	5,245	18,197	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Coupling	Top (MD ft)	Bottom (MD ft)	Comments
	Conductor Casing	3	20.000	94.00	H40		0	120	
	Surface Casing	45	13.375	54.50	J55	STC	0	2,021	
	Intermediate Casing	129	9.625	40.00	HCL80	BTC	0	5,245	
	Production Casing	408	5.500	20.00	P110	BHT	0	18,197	

Casing Cement Summary

C	Date	No. Sx	Yield (ft3/sk)	Vol. (ft3)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
		990	1.97	1,950	13.375	0	1,721	12.9ppg Class C	Circulate 377sx to surface
		315	1.32	416	13.375	1,721	2,021	14.8ppg Class C	
		1,600	2.36	3,776	9.625	0	3,894	11.9ppg Class C 50/50 PLite + 5% Salt + 10% Gel	Circulate 283sx to surface
		150	1.32	198	9.625	3,984	3,994	14.8ppg Class C	
		365	2.36	861	9.625	4,520	4,745	11.9ppg Class C 50/50 PLite + 5% Salt + 10% Gel	TOC @ 4520 from CBL
		210	1.32	277	9.625	4,745	5,245	14.8ppg Class C 50/50 PLite + 5% Salt + 10% Gel	
		950	3.39	3,221	5.500	0	10,300	11ppg Class H 50/50 PLite + 5% Salt + 12% Gel + 0.4% Anti-Settling + 0.4% Retarder	Circulate 295sx to surface
		1,580	1.33	2,101	5.500	10,300	18,197	14.2ppg Class H POZ + 5% Salt + 2% Gel + 0.4% Fluid Loss + 0.2% Retarder + 0.2% Anti-Settling	

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	1,973			
	Guide Shoe	13.375	0.000	2,019			
	DV tool (drilled out)	9.625	0.000	3,984			
	Packer	12.250	9.625	3,988		ECP	
	Float Collar	9.625	0.000	5,201			
	Guide Shoe	9.625	0.000	5,243			
	Sliding Sleeve (open)	5.500	0.000	18,031	18,034	Toe Sleeve	
	Marker Joint	5.500	0.000	18,034	18,057		
	Sliding Sleeve (open)	5.500	0.000	18,100	18,104	Toe Sleeve	
	Float Collar	5.500	0.000	18,149			

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Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	Guide Shoe	5.500	0.000	18,195			
Perforation Summary							
C	Date	Perf. Status	Formation	Closed Date	Comments		
		Open	1st Bone Spring		Stage 53 - 385,675lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
10341	10,342	8	8	60			
10371	10,372	8	8	60			
10401	10,402	8	8	60			
10431	10,432	8	8	60			
C	Date	Perf. Status	Formation	Closed Date	Comments		
		Open	1st Bone Spring		Stage 52 - 385,200lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
10465	10,466	8	8	60			
10501	10,502	8	8	60			
10531	10,532	8	8	60			
10561	10,562	8	8	60			
C	Date	Perf. Status	Formation	Closed Date	Comments		
		Open	1st Bone Spring		Stage 51 - 385,600lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
10597	10,598	8	8	60			
10631	10,632	8	8	60			
10661	10,662	8	8	60			
10688	10,689	8	8	60			
C	Date	Perf. Status	Formation	Closed Date	Comments		
		Open	1st Bone Spring		Stage 50 - 390,000lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
10731	10,732	8	8	60			
10756	10,757	8	8	60			
10783	10,784	8	8	60			
10817	10,818	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		
10866	10,867	8	8	60			
10893	10,894	8	8	60			
10921	10,922	8	8	60			
10954	10,955	8	8	60			
C	Date	Perf. Status	Formation	Closed Date	Comments		
		Open	1st Bone Spring		Stage 48 - 389,900lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
10991	10,992	8	8	60			
11031	11,032	8	8	60			
11063	11,064	8	8	60			
11096	11,097	8	8	60			
C	Date	Perf. Status	Formation	Closed Date	Comments		
		Open	1st Bone Spring		Stage 47 - 385,900lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
11138	11,139	8	8	60			
11166	11,167	8	8	60			
11196	11,197	8	8	60			

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C	Date	Perf. Status	Formation		Closed Date	Comments
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11227	11,228	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 46 - 391,670lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11266	11,267	8	8	60	
	11296	11,297	8	8	60	
	11326	11,327	8	8	60	
	11356	11,357	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 45 - 390,100lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11396	11,397	8	8	60	
	11426	11,427	8	8	60	
	11461	11,462	8	8	60	
	11486	11,487	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 44 - 391,70lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11526	11,527	8	8	60	
	11556	11,557	8	8	60	
	11583	11,584	8	8	60	
	11610	11,611	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 43 - 391,200lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11661	11,662	8	8	60	
	11702	11,703	8	8	60	
	11743	11,744	8	8	60	
	11785	11,786	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 42 - 387,020lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11829	11,830	8	8	60	
	11869	11,870	8	8	60	
	11914	11,915	8	8	60	
	11956	11,957	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 41 - 391,250lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11996	11,997	8	8	60	
	12031	12,032	8	8	60	
	12072	12,073	8	8	60	
	12101	12,102	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 40 - 391,700lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12143	12,144	8	8	60	
	12174	12,175	8	8	60	
	12211	12,212	8	8	60	

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C	Date	Perf. Status	Formation		Closed Date	Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12242	12,243	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 39 - 389,600lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12286	12,287	8	8	60	
	12329	12,330	8	8	60	
	12374	12,375	8	8	60	
	12414	12,415	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 38 - 391,250lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12455	12,456	8	8	60	
	12499	12,500	8	8	60	
	12543	12,544	8	8	60	
	12586	12,587	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 37 - 389,650lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12626	12,627	8	8	60	
	12662	12,663	8	8	60	
	12700	12,701	8	8	60	
	12741	12,742	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 36 - 389,880lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12776	12,777	8	8	60	
	12819	12,820	8	8	60	
	12863	12,864	8	8	60	
	12906	12,907	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 35 - 390,450lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12946	12,947	8	8	60	
	12984	12,985	8	8	60	
	13019	13,020	8	8	60	
	13061	13,062	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 34 - 390,190lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13102	13,103	8	8	60	
	13134	13,135	8	8	60	
	13171	13,172	8	8	60	
	13206	13,207	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 33 - 390,340lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13246	13,247	8	8	60	
	13309	13,310	8	8	60	
	13336	13,337	8	8	60	

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C	Date	Perf. Status	Formation	Closed Date	Comments	
		Open	1st Bone Spring		Stage 32 - 390,820lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13376	13,377	8	8	60	
	13406	13,407	8	8	60	
	13436	13,437	8	8	60	
	13466	13,467	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
		Open	1st Bone Spring		Stage 31 - 391,300lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13506	13,507	8	8	60	
	13543	13,544	8	8	60	
	13588	13,589	8	8	60	
	13636	13,637	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
		Open	1st Bone Spring		Stage 30 - 390,250lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13676	13,677	8	8	60	
	13719	13,720	8	8	60	
	13763	13,764	8	8	60	
	13804	13,805	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
		Open	1st Bone Spring		Stage 29 - 390,590lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13846	13,847	8	8	60	
	13889	13,890	8	8	60	
	13934	13,935	8	8	60	
	13971	13,972	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
		Open	1st Bone Spring		Stage 28 - 390,170lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14016	14,017	8	8	60	
	14059	14,060	8	8	60	
	14103	14,104	8	8	60	
	14146	14,147	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
		Open	1st Bone Spring		Stage 27 - 390,350lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14189	14,190	8	8	60	
	14228	14,229	8	8	60	
	14273	14,274	8	8	60	
	14316	14,317	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
		Open	1st Bone Spring		Stage 26 - 390,300lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14356	14,357	8	8	60	
	14391	14,392	8	8	60	
	14426	14,427	8	8	60	
	14461	14,462	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
		Open	1st Bone Spring		Stage 25 - 389,850lbs sand	

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C	Date	Perf. Status	Formation		Closed Date	Comments
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
14501		14,502	8	8	60	
14536		14,537	8	8	60	
14571		14,572	8	8	60	
14606		14,607	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 24 - 390,450lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
14646		14,647	8	8	60	
14681		14,682	8	8	60	
14716		14,717	8	8	60	
14751		14,752	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 23 - 390,830lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
14788		14,789	8	8	60	
14821		14,822	8	8	60	
14861		14,862	8	8	60	
14896		14,897	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 22 - 390,230lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
14936		14,937	8	8	60	
14971		14,972	8	8	60	
15006		15,007	8	8	60	
15041		15,042	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 21 - 388,000lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15081		15,082	8	8	60	
15121		15,122	8	8	60	
15151		15,152	8	8	60	
15190		15,191	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 20 - 392,600lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15228		15,229	8	8	60	
15261		15,262	8	8	60	
15296		15,297	8	8	60	
15331		15,332	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 19 - 390,550lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15371		15,372	8	8	60	
15406		15,407	8	8	60	
15441		15,442	8	8	60	
15476		15,477	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 18 - 390,570lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments

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C	Date	Perf. Status	Formation		Closed Date	Comments
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15523		15,524	8	8	60	
15556		15,557	8	8	60	
15590		15,591	8	8	60	
15627		15,628	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 17 - 390,975lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15666		15,667	8	8	60	
15698		15,699	8	8	60	
15734		15,735	8	8	60	
15756		15,757	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 16 - 392,720lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15796		15,797	8	8	60	
15866		15,867	8	8	60	
15901		15,902	8	8	60	
15934		15,935	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 15 - 388,925lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15941		15,942	8	8	60	
15971		15,972	8	8	60	
16001		16,002	8	8	60	
16031		16,032	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 14 - 390,320lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
16072		16,073	8	8	60	
16117		16,118	8	8	60	
16157		16,158	8	8	60	
16200		16,201	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 13 - 388,600lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
16236		16,237	8	8	60	
16271		16,272	8	8	60	
16306		16,307	8	8	60	
16334		16,335	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 12 - 390,580lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
16372		16,373	8	8	60	
16401		16,402	8	8	60	
16436		16,437	8	8	60	
16463		16,464	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 11 - 391,650lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments

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C	Date	Perf. Status	Formation		Closed Date	Comments
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16502	16,503	8	8	60	
	16544	16,545	8	8	60	
	16588	16,589	8	8	60	
	16632	16,633	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 10 - 391,700lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16671	16,672	8	8	60	
	16714	16,715	8	8	60	
	16761	16,762	8	8	60	
	16801	16,802	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 9 - 389,700lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16841	16,842	8	8	60	
	16884	16,885	8	8	60	
	16931	16,932	8	8	60	
	16971	16,972	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 8 - 391,020lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	17011	17,012	8	8	60	
	17054	17,055	8	8	60	
	17096	17,097	8	8	60	
	17141	17,142	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 7 - 391,000lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	17184	17,185	8	8	60	
	17208	17,209	8	8	60	
	17244	17,245	8	8	60	
	17276	17,277	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 6 - 389,340lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	17321	17,322	8	8	60	
	17363	17,364	8	8	60	
	17398	17,399	8	8	60	
	17441	17,442	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 5 - 393,300lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	17479	17,480	8	8	60	
	17516	17,517	8	8	60	
	17556	17,557	8	8	60	
	17581	17,582	8	8	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
		Open	1st Bone Spring			Stage 4 - 426,150lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments

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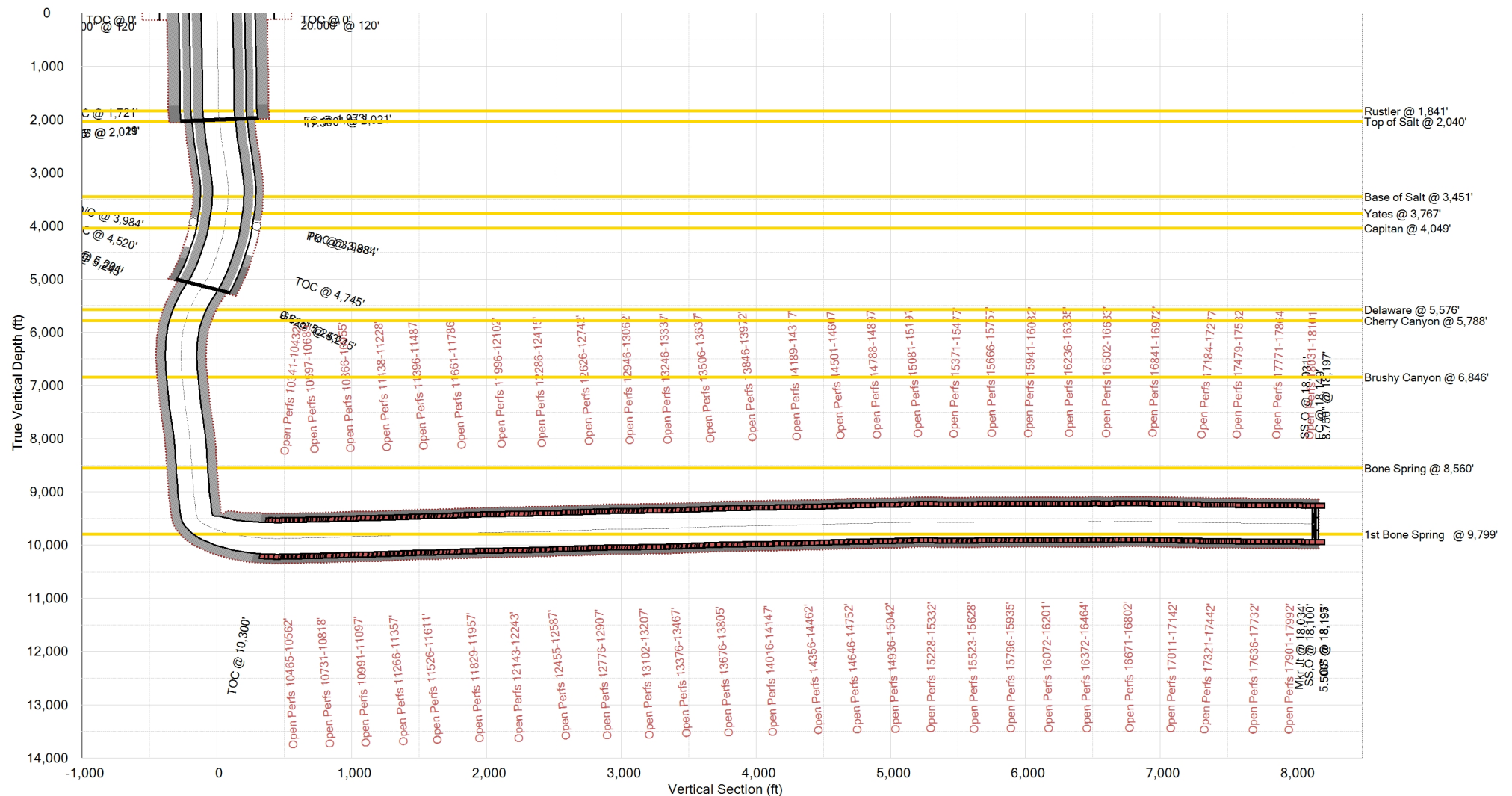
C	Date	Perf. Status	Formation	Closed Date	Comments
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
17636	17,637	8	8	60	
17661	17,662	8	8	60	
17696	17,697	8	8	60	
17731	17,732	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 3 - 148,250lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
17771	17,772	8	8	60	
17801	17,802	8	8	60	
17826	17,827	8	8	60	
17863	17,864	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 2 - 380,240lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
17901	17,902	8	8	60	
17934	17,935	8	8	60	
17961	17,962	8	8	60	
17991	17,992	8	8	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	1st Bone Spring		Stage 1 - 400,520lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
18031	18,032	8	8	60	
18100	18,101	8	8	60	

Formation Top Summary

Formation Name	Top(TVD ft)	Comments
Rustler	1,841	
Top of Salt	2,040	
Base of Salt	3,451	
Yates	3,767	
Capitan	4,049	
Delaware	5,576	
Cherry Canyon	5,788	
Brushy Canyon	6,846	
Bone Spring	8,560	
1st Bone Spring	9,799	

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Field Name		Lease Name				Well No.		County		State		API No.	
Antelope Ridge		Igloo 19-24 State Fed Com				15H		Lea		New Mexico		30025466020000	
Version	Version Tag					Spud Date		Comp. Date		G.L. (ft)		K.B. (ft)	
1	Completed					12/18/2019		2/2/2021		3,693.0		3,714.0	
Sec.	Township/Block	Range/Survey	Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From		Latitude		Longitude		
19	20S	35E	1570	FSL	2365	FEL			32.55569161		-103.49571422		
Well Status		PropNum		Operator		Last Updated			Prepared By		Updated By		
Completed		313780		Caza Operating		4/7/2021 5:21:44 AM			Steve Morris		Steve Morris		
Additional Information													



Last Updated: 4/7/2021 5:21:44 AM



Field Name		Lease Name	Well No.	API No.	Version	Version Tag		
Antelope Ridge		Igloo 19-24 State Fed Com	15H	30025466020000	1	Completed		
Section	Township/Block	Range/Survey	County		State		GL (ft)	KB (ft)
19	20S	35E	Lea		New Mexico		3,693.0	3,714.0
Target N (-S) (ft)		Target E (-W) (ft)	Latitude	Longitude	Operator		Well Status	
0		0	32.55569161	-103.49571422	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
100.0	0.2	283.3	100.0	0.2	0.0	-0.2	0.20
200.0	0.3	272.8	200.0	0.6	0.1	-0.6	0.15
300.0	0.5	264.4	300.0	1.4	0.1	-1.4	0.18
400.0	0.4	274.9	400.0	2.1	0.1	-2.1	0.18
500.0	0.5	277.3	500.0	2.8	0.1	-2.8	0.11
600.0	0.5	266.5	600.0	3.7	0.2	-3.7	0.12
700.0	0.5	270.5	700.0	4.6	0.1	-4.6	0.04
800.0	0.6	271.1	800.0	5.6	0.1	-5.6	0.05
900.0	0.5	279.3	900.0	6.5	0.2	-6.5	0.13
1,000.0	0.5	281.0	1,000.0	7.3	0.4	-7.3	0.02
1,100.0	0.1	298.7	1,100.0	7.8	0.5	-7.8	0.34
1,200.0	0.1	12.8	1,200.0	7.9	0.6	-7.9	0.14
1,300.0	0.1	23.4	1,300.0	7.8	0.8	-7.8	0.02
1,400.0	0.0	16.6	1,400.0	7.8	0.9	-7.8	0.06
1,500.0	0.1	321.5	1,500.0	7.8	1.0	-7.8	0.09
1,600.0	0.1	301.1	1,600.0	7.9	1.1	-7.9	0.06
1,700.0	0.5	298.1	1,700.0	8.4	1.3	-8.4	0.48
1,800.0	1.6	298.6	1,800.0	10.0	2.2	-10.0	1.03
1,900.0	2.8	300.7	1,899.9	13.3	4.1	-13.3	1.25
2,000.0	2.9	304.4	1,999.8	17.5	6.8	-17.5	0.23
2,100.0	3.1	306.0	2,099.6	21.9	9.8	-21.8	0.20
2,200.0	3.6	314.1	2,199.4	26.3	13.6	-26.2	0.64
2,300.0	4.1	318.8	2,299.2	31.0	18.4	-30.8	0.67
2,400.0	4.8	322.5	2,398.9	35.9	24.5	-35.8	0.73
2,500.0	5.4	322.2	2,498.5	41.4	31.5	-41.2	0.58
2,600.0	6.1	323.8	2,598.0	47.5	39.5	-47.2	0.77
2,700.0	6.7	325.2	2,697.4	54.1	48.7	-53.7	0.59
2,800.0	7.4	330.1	2,796.6	60.7	59.1	-60.3	0.94
2,900.0	8.2	342.6	2,895.7	66.1	71.4	-65.6	1.85
3,000.0	8.9	336.9	2,994.6	71.4	85.3	-70.8	1.11
3,100.0	9.7	345.3	3,093.3	76.6	100.5	-75.9	1.57
3,200.0	10.6	351.0	3,191.8	80.3	117.7	-79.5	1.34
3,300.0	11.4	355.8	3,289.9	82.6	136.6	-81.7	1.24
3,400.0	12.1	2.3	3,387.8	83.0	156.9	-82.0	1.51
3,500.0	13.3	6.3	3,485.4	81.5	178.8	-80.3	1.45
3,600.0	14.1	7.1	3,582.6	78.9	202.2	-77.5	0.84
3,700.0	14.7	11.0	3,679.4	75.1	226.8	-73.6	1.17
3,800.0	14.9	13.1	3,776.1	70.0	251.8	-68.3	0.54
3,900.0	14.7	15.3	3,872.8	63.9	276.4	-62.0	0.59
4,000.0	13.5	15.1	3,969.8	57.7	299.9	-55.6	1.20
4,100.0	14.1	17.3	4,066.9	51.2	322.8	-49.0	0.85
4,200.0	15.4	19.6	4,163.6	43.3	346.9	-40.9	1.34
4,300.0	16.0	22.6	4,259.9	33.7	372.2	-31.2	1.06
4,400.0	16.8	24.7	4,355.8	22.5	398.0	-19.8	0.98
4,500.0	17.4	25.2	4,451.4	10.3	424.7	-7.4	0.63
4,600.0	17.9	26.7	4,546.7	-2.7	452.0	5.8	0.67
4,700.0	18.5	24.7	4,641.7	-16.1	480.1	19.3	0.84
4,800.0	18.8	25.9	4,736.5	-29.5	508.9	33.0	0.51
4,900.0	20.0	27.1	4,830.8	-44.1	538.7	47.8	1.30
5,000.0	21.3	30.1	4,924.4	-60.8	569.6	64.7	1.66
5,100.0	22.3	31.5	5,017.2	-79.6	601.5	83.7	1.10
5,200.0	23.5	33.8	5,109.4	-100.4	634.2	104.7	1.51
5,274.0	24.8	35.8	5,176.9	-117.5	659.0	122.0	2.05

Measured Depth (ft)	Incination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
5,299.0	24.5	35.4	5,199.6	-123.5	667.4	128.0	1.35
5,394.0	23.2	35.7	5,286.5	-145.6	698.7	150.4	1.30
5,489.0	20.7	33.5	5,374.6	-165.6	727.9	170.5	2.85
5,583.0	18.3	33.8	5,463.3	-182.7	754.0	187.9	2.50
5,677.0	15.8	38.3	5,553.1	-198.7	776.3	204.0	3.03
5,772.0	13.4	42.9	5,645.1	-214.1	794.4	219.5	2.80
5,865.0	10.3	52.2	5,736.1	-227.9	807.4	233.4	3.88
5,960.0	7.3	62.8	5,830.0	-239.9	815.4	245.4	3.61
6,054.0	4.2	78.5	5,923.5	-248.5	818.8	254.1	3.65
6,149.0	3.4	119.2	6,018.3	-254.4	818.1	259.9	2.87
6,242.0	4.8	150.2	6,111.1	-258.7	813.3	264.3	2.76
6,337.0	6.2	163.9	6,205.6	-262.2	804.9	267.7	2.04
6,431.0	8.1	169.7	6,298.9	-264.9	793.5	270.3	2.17
6,525.0	10.2	178.5	6,391.7	-266.4	778.7	271.7	2.60
6,620.0	11.5	183.8	6,485.0	-266.1	760.8	271.3	1.77
6,716.0	10.7	183.0	6,579.2	-265.1	742.4	270.2	0.81
6,810.0	10.4	188.1	6,671.6	-263.6	725.2	268.5	1.03
6,905.0	10.2	194.1	6,765.1	-260.4	708.5	265.3	1.16
7,000.0	10.0	192.8	6,858.6	-256.7	692.3	261.4	0.36
7,094.0	9.9	192.5	6,951.2	-253.3	676.5	257.9	0.10
7,188.0	9.8	192.3	7,043.8	-249.9	660.8	254.4	0.10
7,282.0	9.8	191.1	7,136.5	-246.8	645.2	251.2	0.22
7,376.0	10.4	191.4	7,229.0	-243.7	629.1	248.0	0.64
7,470.0	11.7	192.6	7,321.3	-240.1	611.5	244.2	1.49
7,564.0	13.0	195.3	7,413.1	-235.3	591.9	239.4	1.46
7,658.0	13.8	195.8	7,504.5	-229.7	571.0	233.5	0.84
7,753.0	13.5	195.7	7,596.9	-223.7	549.5	227.5	0.33
7,847.0	13.0	195.2	7,688.4	-218.2	528.8	221.8	0.52
7,942.0	12.6	195.1	7,781.0	-212.8	508.5	216.3	0.42
8,034.0	12.1	195.3	7,870.9	-207.8	489.6	211.1	0.57
8,129.0	11.6	191.4	7,963.9	-203.4	470.7	206.6	0.96
8,223.0	11.1	189.6	8,056.1	-200.2	452.5	203.3	0.65
8,317.0	10.8	190.5	8,148.4	-197.2	435.0	200.2	0.40
8,412.0	10.5	189.3	8,241.7	-194.3	417.7	197.1	0.34
8,506.0	10.0	188.6	8,334.2	-191.8	401.2	194.5	0.57
8,600.0	10.2	188.8	8,426.8	-189.4	384.9	192.1	0.19
8,694.0	10.2	188.9	8,519.3	-187.0	368.5	189.5	0.04
8,788.0	9.7	188.6	8,611.9	-184.6	352.5	187.0	0.48
8,883.0	9.8	190.2	8,705.5	-182.1	336.6	184.4	0.30
8,977.0	9.0	191.2	8,798.3	-179.3	321.5	181.5	0.83
9,071.0	8.3	192.7	8,891.2	-176.5	307.6	178.6	0.81
9,165.0	9.1	193.0	8,984.1	-173.5	293.7	175.5	0.87
9,260.0	9.8	194.8	9,077.8	-169.8	278.6	171.7	0.79
9,354.0	10.0	198.2	9,170.4	-165.3	263.1	167.1	0.64
9,459.0	10.8	192.7	9,273.7	-160.4	244.9	162.1	1.22
9,554.0	10.7	189.9	9,367.0	-157.1	227.5	158.6	0.56
9,601.0	10.9	195.0	9,413.2	-155.2	218.9	156.7	2.07
9,648.0	14.7	214.9	9,459.1	-150.7	209.8	152.2	12.25
9,695.0	21.0	220.0	9,503.8	-142.0	198.4	143.3	13.92
9,742.0	27.9	228.2	9,546.5	-128.4	184.6	129.7	16.19
9,789.0	34.7	234.5	9,586.7	-109.4	169.5	110.6	16.14
9,835.0	39.7	241.5	9,623.3	-85.9	154.8	87.0	14.14
9,882.0	43.9	249.8	9,658.4	-57.5	142.0	58.5	14.78
9,929.0	47.1	256.7	9,691.4	-25.5	132.4	26.4	12.55
9,976.0	50.2	260.8	9,722.4	9.0	125.6	-8.2	9.19
10,023.0	53.1	266.4	9,751.6	45.6	121.5	-44.7	11.17
10,070.0	57.2	269.1	9,778.5	84.1	120.0	-83.3	10.03
10,118.0	62.1	271.0	9,802.7	125.5	120.0	-124.7	10.72
10,165.0	67.4	271.1	9,822.8	168.0	120.8	-167.2	11.19
10,212.0	72.3	270.7	9,839.0	212.1	121.5	-211.3	10.48
10,259.0	77.0	270.6	9,851.4	257.4	122.0	-256.6	10.07
10,307.0	79.0	270.1	9,861.4	304.3	122.3	-303.5	4.34
10,354.0	81.4	269.7	9,869.4	350.6	122.2	-349.8	5.18
10,401.0	85.6	269.2	9,874.7	397.3	121.7	-396.5	8.99
10,448.0	89.6	269.3	9,876.6	444.3	121.1	-443.5	8.53
10,494.0	92.0	269.3	9,876.0	490.3	120.5	-489.4	5.04

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
10,585.0	93.8	269.1	9,871.4	581.1	119.3	-580.3	2.07
10,680.0	94.0	269.5	9,864.8	675.9	118.2	-675.1	0.41
10,774.0	94.0	270.0	9,858.3	769.6	117.7	-768.9	0.52
10,869.0	93.7	270.4	9,852.0	864.4	118.0	-863.6	0.57
10,963.0	93.6	270.8	9,846.1	958.2	119.0	-957.5	0.43
11,057.0	93.7	272.2	9,840.1	1,052.0	121.5	-1,051.2	1.47
11,151.0	93.9	272.1	9,833.9	1,145.8	125.1	-1,145.0	0.25
11,245.0	93.6	269.1	9,827.8	1,239.6	126.0	-1,238.7	3.29
11,339.0	95.3	268.4	9,820.5	1,333.2	124.0	-1,332.4	1.96
11,432.0	95.0	269.1	9,812.2	1,425.8	122.0	-1,425.0	0.78
11,526.0	95.0	269.2	9,804.0	1,519.5	120.6	-1,518.7	0.19
11,620.0	95.0	269.9	9,795.8	1,613.1	119.9	-1,612.3	0.71
11,714.0	95.3	270.1	9,787.4	1,706.7	119.9	-1,705.9	0.39
11,809.0	95.5	270.2	9,778.4	1,801.3	120.2	-1,800.5	0.26
11,902.0	93.7	269.3	9,771.0	1,894.0	119.8	-1,893.2	2.20
11,997.0	93.0	269.1	9,765.4	1,988.8	118.4	-1,988.0	0.78
12,091.0	92.4	267.3	9,761.0	2,082.6	115.4	-2,081.9	2.04
12,185.0	92.0	264.8	9,757.3	2,176.3	108.9	-2,175.6	2.62
12,279.0	92.4	264.3	9,753.7	2,269.7	99.9	-2,269.1	0.73
12,374.0	92.2	263.8	9,749.8	2,364.0	90.1	-2,363.5	0.53
12,468.0	97.4	268.8	9,742.0	2,457.4	84.0	-2,456.9	7.66
12,562.0	95.5	271.4	9,731.4	2,550.8	84.2	-2,550.3	3.41
12,657.0	94.0	271.2	9,723.6	2,645.5	86.4	-2,644.9	1.60
12,751.0	94.3	271.3	9,716.8	2,739.2	88.4	-2,738.7	0.30
12,845.0	93.8	271.1	9,710.2	2,833.0	90.3	-2,832.4	0.50
12,940.0	93.1	271.5	9,704.5	2,927.8	92.5	-2,927.2	0.81
13,034.0	91.3	271.3	9,700.9	3,021.7	94.7	-3,021.1	1.98
13,128.0	93.3	271.8	9,697.1	3,115.6	97.2	-3,115.0	2.29
13,222.0	91.1	270.1	9,693.5	3,209.5	98.8	-3,208.9	3.01
13,317.0	92.1	269.4	9,690.8	3,304.5	98.4	-3,303.9	1.22
13,410.0	95.1	268.2	9,685.0	3,397.2	96.5	-3,396.7	3.46
13,505.0	95.2	267.5	9,676.5	3,491.8	93.0	-3,491.2	0.75
13,615.0	96.2	269.1	9,665.6	3,601.1	89.7	-3,600.6	1.68
13,709.0	94.6	271.7	9,656.8	3,694.7	90.3	-3,694.2	3.25
13,804.0	92.7	273.4	9,650.8	3,789.4	94.5	-3,788.9	2.71
13,898.0	95.2	274.1	9,644.3	3,883.1	100.6	-3,882.5	2.73
13,993.0	91.9	273.3	9,638.5	3,977.7	106.8	-3,977.1	3.52
14,087.0	92.2	272.8	9,635.1	4,071.5	111.8	-4,070.9	0.63
14,182.0	90.6	272.4	9,632.8	4,166.4	116.2	-4,165.7	1.80
14,276.0	92.5	271.4	9,630.2	4,260.4	119.3	-4,259.7	2.29
14,370.0	94.9	271.7	9,624.1	4,354.1	121.9	-4,353.4	2.57
14,464.0	94.3	270.2	9,616.5	4,447.8	123.3	-4,447.1	1.74
14,559.0	94.5	270.0	9,609.2	4,542.5	123.5	-4,541.8	0.18
14,653.0	94.2	268.8	9,602.1	4,636.3	122.5	-4,635.5	1.41
14,747.0	93.8	268.8	9,595.6	4,730.0	120.5	-4,729.3	0.40
14,841.0	92.9	269.3	9,590.1	4,823.8	119.0	-4,823.1	1.06
14,935.0	92.5	270.0	9,585.7	4,917.7	118.4	-4,917.0	0.87
15,029.0	92.6	269.7	9,581.5	5,011.6	118.1	-5,010.9	0.29
15,124.0	94.7	269.3	9,575.4	5,106.4	117.3	-5,105.7	2.25
15,218.0	92.9	269.1	9,569.1	5,200.2	116.1	-5,199.5	1.95
15,312.0	88.0	269.4	9,568.4	5,294.1	114.8	-5,293.4	5.22
15,406.0	88.0	268.8	9,571.6	5,388.0	113.3	-5,387.4	0.63
15,500.0	89.8	268.6	9,573.4	5,482.0	111.1	-5,481.3	1.91
15,595.0	91.8	267.5	9,572.1	5,576.9	107.9	-5,576.3	2.39
15,689.0	91.0	268.0	9,569.8	5,670.7	104.3	-5,670.2	0.99
15,783.0	91.1	268.5	9,568.1	5,764.7	101.4	-5,764.1	0.49
15,877.0	90.5	268.3	9,566.9	5,858.6	98.8	-5,858.1	0.67
15,972.0	87.9	266.2	9,568.2	5,953.4	94.3	-5,952.9	3.47
16,066.0	90.9	266.3	9,569.2	6,047.2	88.2	-6,046.7	3.13
16,159.0	91.5	268.0	9,567.3	6,140.0	83.5	-6,139.6	2.02
16,253.0	91.3	268.7	9,565.0	6,233.9	80.8	-6,233.5	0.73
16,347.0	90.8	268.0	9,563.2	6,327.8	78.1	-6,327.4	0.90
16,441.0	91.3	268.4	9,561.4	6,421.7	75.1	-6,421.4	0.71
16,536.0	89.1	268.2	9,561.0	6,516.7	72.3	-6,516.3	2.39
16,630.0	90.5	267.5	9,561.4	6,610.6	68.7	-6,610.3	1.66
16,723.0	91.2	267.4	9,560.0	6,703.4	64.6	-6,703.2	0.71

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
16,819.0	89.6	268.1	9,559.4	6,799.3	60.9	-6,799.1	1.72
16,913.0	88.3	268.8	9,561.1	6,893.3	58.3	-6,893.0	1.58
17,007.0	89.1	268.0	9,563.2	6,987.2	55.7	-6,987.0	1.16
17,102.0	89.0	268.0	9,564.8	7,082.1	52.4	-7,081.9	0.10
17,196.0	84.4	268.1	9,570.2	7,175.8	49.2	-7,175.7	4.89
17,290.0	86.5	269.2	9,577.7	7,269.5	46.9	-7,269.3	2.49
17,385.0	87.2	268.8	9,583.0	7,364.3	45.3	-7,364.2	0.86
17,480.0	88.7	267.7	9,586.4	7,459.2	42.4	-7,459.1	1.95
17,574.0	89.2	269.2	9,588.1	7,553.1	39.8	-7,553.0	1.70
17,669.0	89.5	269.0	9,589.1	7,648.1	38.3	-7,648.0	0.34
17,763.0	88.4	267.7	9,590.8	7,742.0	35.6	-7,741.9	1.77
17,857.0	88.4	267.3	9,593.4	7,835.8	31.5	-7,835.8	0.49
17,951.0	89.6	267.8	9,595.1	7,929.7	27.4	-7,929.7	1.32
18,046.0	88.1	267.9	9,597.0	8,024.6	23.9	-8,024.6	1.51
18,133.0	89.6	267.9	9,598.8	8,111.5	20.7	-8,111.5	1.65
18,200.0	89.6	267.9	9,599.3	8,178.4	18.3	-8,178.5	0.00

District I

1625 N. French Dr., Hobbs, NM 88240
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District II

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District III

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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

ACKNOWLEDGMENTS

Action 28655

ACKNOWLEDGMENTS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 28655
	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.

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CONDITIONS

Action 28655

CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 28655
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	Submit all drilling, casing, and completion sundries/reports.	7/21/2021