

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 25-46908	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 14Y

II. ¹⁰ Surface Location

UI or lot no. O	Section 19	Township 20S	Range 35E	Lot Idn	Feet from the 1315	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. M	Section 24	Township 20S	Range 35E	Lot Idn	Feet from the 445	North/South line South	Feet from the 100	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		

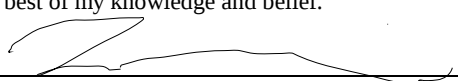
III. Oil and Gas Transporters

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 2/29/2020	²² Ready Date 2/3/2021	²³ TD 18065	²⁴ PBTD 18046	²⁵ Perforations 10385 - 18046	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17.5		13.375	1925		1400
12.25		9.625	5280		2330
8.75		5.5	18065		2530
		2.875	10389		

V. Well Test Data

³¹ Date New Oil 2/3/2021	³² Gas Delivery Date 2/3/2021	³³ Test Date 2/28/2021	³⁴ Test Length 24	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size 64	³⁸ Oil 939	³⁹ Water 718	⁴⁰ Gas 944		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: 06/11/2021		
Date: 3/4/2021		Phone: 985-415-9729			

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.
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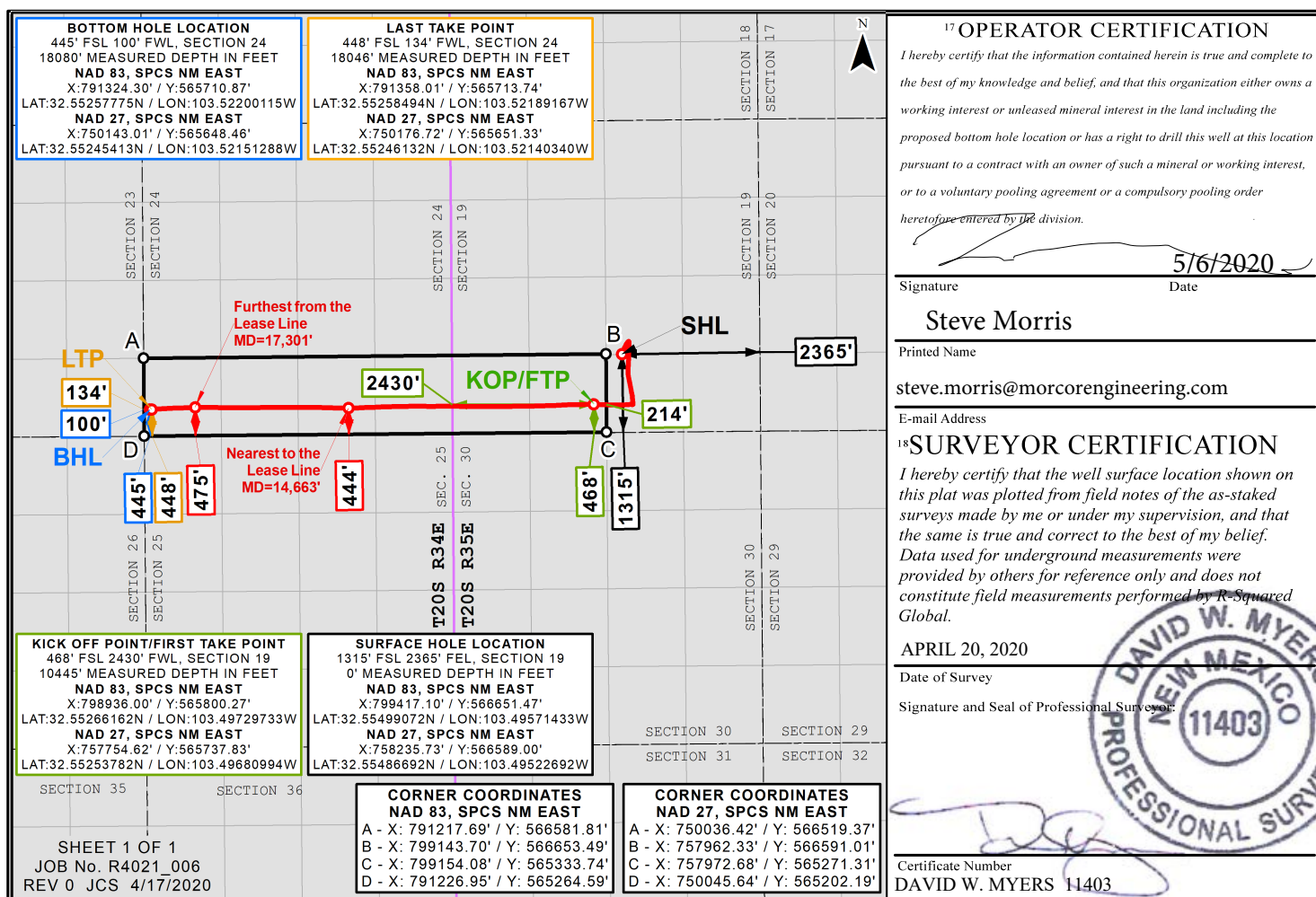
WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

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	Latitude:	32° 33' 17.967 N
From:	Map	Easting:	799,417.10 usft	Longitude:	103° 29' 44.572 W
Position Uncertainty:	1.0 usft	Slot Radius:	17-1/2 "	Grid Convergence:	0.45 °

Well	Igloo 19-24 State Fed Com 14H					
Well Position	+N/-S	0.0 usft	Northing:	566,651.47 usft	Latitude:	32° 33' 17.967 N
	+E/-W	0.0 usft	Easting:	799,417.10 usft	Longitude:	103° 29' 44.572 W
Position Uncertainty		1.0 usft	Wellhead Elevation:	usft	Ground Level:	3,694.0 usft

Wellbore	Igloo 19-24 State Fed Com 14H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/26/2019	6.55	60.29	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)	Direction (°)
		0.0	0.0	0.0	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

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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)
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



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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)
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

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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)	
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

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)	
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

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)	
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	



Morcor Engineering Morcor Standard Plan

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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



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)	
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

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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)	
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: _____

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

ACKNOWLEDGMENTS

Action 20721

ACKNOWLEDGMENTS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 20721
	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 20721

CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 20721
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	Submit all drilling and completion sundries and completion report.	6/11/2021