

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

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 200N. Lorraine St #1550, Midland, TX 79701		² OGRID Number 249099
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 0 15-44621	⁵ Pool Name Purple Sage; Wolfcamp	⁶ Pool Code 98220
⁷ Property Code 320546	⁸ Property Name FOREHAND RANCH NORTH 22 21 STATE	⁹ Well Number 2H

II. 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
H	22	23S	27E		1480	north	250	east	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	21	23S	27E		2280.2	north	258.2	west	Eddy
¹² Lse Code S	¹³ Producing Method Code Flowing	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

III. Oil and Gas Transporters

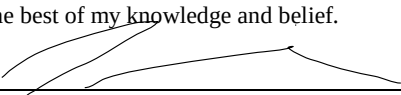
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
34053	Plains Marketing, LP 333 Clay St #1600, Houston, TX 77002	O
	Sendero Carlsbad Midstream LLC 1000 Louisiana St. #6900 Carlsbad, NM 77002	G
	Black River Water Management LLC 1 Lincoln Center, 5400 LBJ Freeway #1500, Dallas, TX 75240	W

IV. Well Completion Data

²¹ Spud Date 6/16/2019	²² Ready Date 10/2/2019	²³ TD 19278	²⁴ PBTD 19187	²⁵ Perforations 9646-19187	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17.5		13.375" J-55 54.5#	445		505sx
12.25		9.625" HCL80 40#& HCL-80 47#	7520		1272sx
8.75		5.5" P-110 20#	19278		3343sx

V. Well Test Data

³¹ Date New Oil 10/19/2019	³² Gas Delivery Date 10/18/2019	³³ Test Date 10/29/2019	³⁴ Test Length 24hrs	³⁵ Tbg. Pressure 1480	³⁶ Csg. Pressure
³⁷ Choke Size 33/64	³⁸ Oil 783	³⁹ Water 3404	⁴⁰ Gas 1770		⁴¹ Test Method flowing

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: <i>PATRICIA MARTINEZ</i>
Title: Contract Engineer	Title: <i>PETROLEUM SPECIALIST</i>
E-mail Address: steve.morris@moorcoreengineering.com	Approval Date: <i>1/27/2022</i>
Date: 10/31/2019	Phone: 985-415-9729

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44621	Pool Code 98220	Pool Name PURPLE SAGE; WOLFCAMP (GAS)
Property Code 320546	Property Name FOREHAND RANCH NORTH 22-21 STATE	Well Number 2H
OGRID No. 249099	Operator Name CAZA OPERATING, LLC	Elevation 3140'

Surface Location

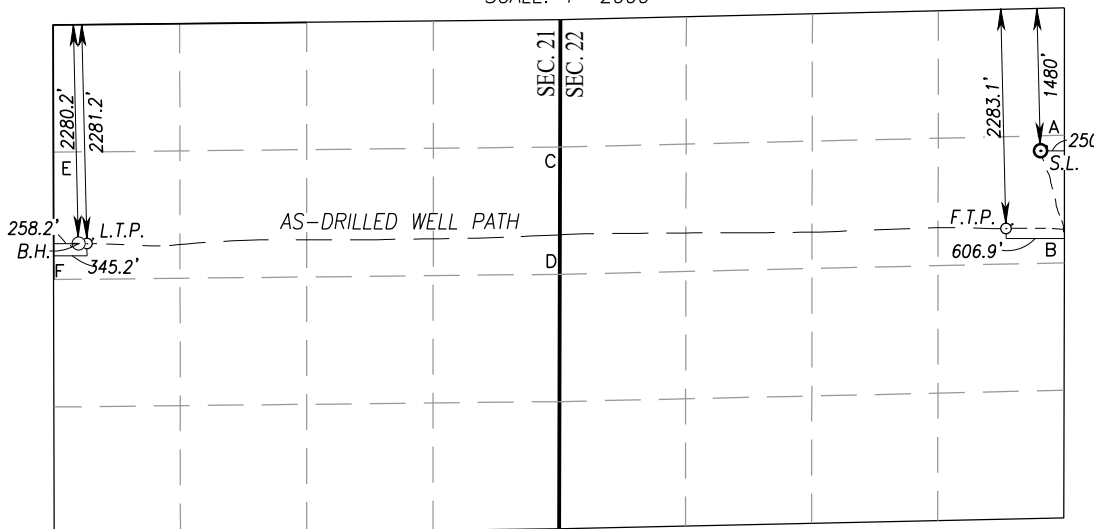
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	22	23-S	27-E		1480	NORTH	250	EAST	EDDY

AS-Drilled 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
E	21	23-S	27-E		2280.2	NORTH	258.2	WEST	EDDY
Dedicated Acres 640	Joint or Infill	Consolidation Code	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

SCALE: 1"=2000'



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date **10/8/2019**

Steve Morris

Printed Name

steve.morris@morcoreengineering.com

E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey **NOVEMBER 28, 2017**
Signature & Seal of Professional Surveyor **3239**

RONALD J. EIDSON
REGISTERED PROFESSIONAL SURVEYOR
Certificate Number **3239**
Gary G. Eidson 12641
Ronald J. Eidson 3239
LSL Rel. w.o.: 18131229 JWSC W.O.: 19.13.0854

CORNER COORDINATES TABLE NAD 27 NME

A - Y= 470796.6 N, X= 550785.6 E
B - Y= 469470.1 N, X= 550784.5 E
C - Y= 470675.2 N, X= 545534.6 E
D - Y= 469349.9 N, X= 545531.7 E
E - Y= 470621.0 N, X= 540256.4 E
F - Y= 469294.6 N, X= 540259.8 E

BOTTOM HOLE LOCATION
NAD 27 NME
Y= 469670.3 N
X= 540517.0 E
LAT.=32.291172° N
LONG.=104.202215° W

BOTTOM HOLE LOCATION
NAD 83 NME
Y= 469729.0 N
X= 581699.2 E
LAT.=32.291291° N
LONG.=104.202715° W

CORNER COORDINATES TABLE NAD 83 NME

A - Y= 470855.4 N, X= 591968.0 E
B - Y= 469528.9 N, X= 591966.9 E
C - Y= 470734.0 N, X= 586716.9 E
D - Y= 469408.6 N, X= 586714.0 E
E - Y= 470679.7 N, X= 581438.6 E
F - Y= 469353.3 N, X= 581442.0 E

LAST TAKE POINT
NAD 27 NME
Y= 469670.2 N
X= 540604.0 E
LAT.=32.291172° N
LONG.=104.201934° W

LAST TAKE POINT
NAD 83 NME
Y= 469728.9 N
X= 581786.2 E
LAT.=32.291291° N
LONG.=104.202433° W

FIRST TAKE POINT
NAD 27 NME
Y= 469825.7 N
X= 550178.1 E
LAT.=32.291563° N
LONG.=104.170950° W

FIRST TAKE POINT
NAD 83 NME
Y= 469884.5 N
X= 591360.5 E
LAT.=32.291683° N
LONG.=104.171448° W

NOTE: AS-DRILLED BOTTOM
HOLE AND TAKE POINTS
PLOTTED FROM DATA
FURNISHED BY SCHLUMBERGER
ON JULY 25, 2019

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 470637.1 N
X= 550535.5 E
LAT.=32.293792° N
LONG.=104.169789° W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 470695.9 N
X= 591717.9 E
LAT.=32.293911° N
LONG.=104.170287° W



Caza Operating LLC

Forehand Ranch North 22-21 State Com 2H

Forehand Ranch North 22-21 State Com 2H

Forehand Ranch North 22-21 State Com 2H

Forehand Ranch North 22-21 State Com 2H

Survey: Forehand Ranch North 22-21 State Com 2H

Morcor Standard Plan

15 August, 2019



Morcor Engineering

Morcor Standard Plan

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Forehand Ranch North 22-21 State Com 2H
Project:	Forehand Ranch North 22-21 State Com 2H	TVD Reference:	WELL @ 3162.0usft (Original Well Elev)
Site:	Forehand Ranch North 22-21 State Com 2H	MD Reference:	WELL @ 3162.0usft (Original Well Elev)
Well:	Forehand Ranch North 22-21 State Com 2H	North Reference:	Grid
Wellbore:	Forehand Ranch North 22-21 State Com 2H	Survey Calculation Method:	Minimum Curvature
Design:	Forehand Ranch North 22-21 State Com 2H	Database:	EDM 5000.1 Single User Db

Project	Forehand Ranch North 22-21 State Com 2H		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Forehand Ranch North 22-21 State Com 2H		
Site Position:		Northing:	470,695.75 usft
From:	Lat/Long	Easting:	591,718.05 usft
Position Uncertainty:	1.0 usft	Slot Radius:	17-1/2 "
		Latitude:	32° 17' 38.080 N
		Longitude:	104° 10' 13.033 W
		Grid Convergence:	0.09 °

Well		Forehand Ranch North 22-21 State Com 2H				
Well Position	+N/-S	0.0 usft	Northing:	470,695.75 usft	Latitude:	32° 17' 38.080 N
	+E/-W	0.0 usft	Easting:	591,718.05 usft	Longitude:	104° 10' 13.033 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,140.0 usft

Wellbore	Forehand Ranch North 22-21 State Com 2H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/31/2018	6.98	59.97	47,878

Design		Forehand Ranch North 22-21 State Com 2H			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	264.54	

Survey Program	Date	8/15/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
109.0	19,278.0	Forehand Ranch North 22-21 State Com 2	MWD	MWD - Standard



Morcor Engineering

Morcor Standard Plan

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Site:	Forehand Ranch North 22-21 State Com 2H	MD Reference:	WELL @ 3162.0usft (Original Well Elev)
Well:	Forehand Ranch North 22-21 State Com 2H	North Reference:	Grid
Wellbore:	Forehand Ranch North 22-21 State Com 2H	Survey Calculation Method:	Minimum Curvature
Design:	Forehand Ranch North 22-21 State Com 2H	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	-3,162.0	0.0	0.0	591,718.05	470,695.75	0.00	0.00	
109.0	0.14	241.32	109.0	-3,053.0	-0.1	-0.1	591,717.94	470,695.69	0.12	0.13	
205.0	0.91	205.87	205.0	-2,957.0	-0.8	-0.6	591,717.50	470,694.94	0.63	0.83	
301.0	1.51	186.50	301.0	-2,861.0	-2.7	-1.0	591,717.03	470,693.00	1.29	0.75	
397.0	1.66	165.51	396.9	-2,765.1	-5.4	-0.8	591,717.23	470,690.40	1.33	0.62	
429.0	1.45	159.52	428.9	-2,733.1	-6.2	-0.6	591,717.49	470,689.57	1.15	0.83	
482.0	1.54	159.90	481.9	-2,680.1	-7.5	-0.1	591,717.97	470,688.27	0.80	0.17	
503.0	1.44	163.60	502.9	-2,659.1	-8.0	0.1	591,718.14	470,687.75	0.68	0.66	
595.0	1.19	159.86	594.9	-2,567.1	-10.0	0.7	591,718.80	470,685.75	0.21	0.29	
688.0	3.21	166.85	687.8	-2,474.2	-13.4	1.7	591,719.72	470,682.31	-0.38	2.19	
782.0	9.32	165.38	781.2	-2,380.8	-23.4	4.2	591,722.24	470,672.37	-1.94	6.50	
877.0	14.89	160.58	874.1	-2,287.9	-42.4	10.2	591,728.25	470,653.40	-6.12	5.95	
971.0	15.09	161.35	964.9	-2,197.1	-65.3	18.1	591,736.18	470,630.42	-11.82	0.30	
1,065.0	13.97	161.52	1,055.8	-2,106.2	-87.7	25.6	591,743.69	470,608.06	-17.17	1.19	
1,160.0	12.64	163.10	1,148.3	-2,013.7	-108.5	32.3	591,750.34	470,587.24	-21.82	1.45	
1,255.0	11.46	164.33	1,241.2	-1,920.8	-127.5	37.9	591,755.91	470,568.21	-25.55	1.27	
1,349.0	10.48	163.40	1,333.5	-1,828.5	-144.7	42.8	591,760.88	470,551.02	-28.86	1.06	
1,444.0	10.53	160.80	1,426.9	-1,735.1	-161.2	48.1	591,766.20	470,534.54	-32.59	0.50	
1,538.0	10.49	155.02	1,519.3	-1,642.7	-177.1	54.6	591,772.64	470,518.67	-37.49	1.12	
1,633.0	9.30	153.55	1,612.9	-1,549.1	-191.8	61.7	591,779.71	470,503.96	-43.13	1.28	
1,727.0	9.19	152.44	1,705.7	-1,456.3	-205.2	68.5	591,786.57	470,490.51	-48.67	0.22	
1,821.0	8.89	154.32	1,798.5	-1,363.5	-218.4	75.1	591,793.19	470,477.31	-54.01	0.45	
1,915.0	8.85	150.19	1,891.4	-1,270.6	-231.3	81.9	591,799.93	470,464.49	-59.50	0.68	
2,009.0	8.77	152.62	1,984.3	-1,177.7	-243.9	88.8	591,806.82	470,451.85	-65.15	0.40	
2,104.0	7.85	155.28	2,078.3	-1,083.7	-256.2	94.8	591,812.86	470,439.53	-70.00	1.05	
2,198.0	7.79	167.23	2,171.4	-990.6	-268.3	98.9	591,816.96	470,427.48	-72.93	1.73	
2,292.0	7.45	172.98	2,264.6	-897.4	-280.5	101.1	591,819.11	470,415.22	-73.90	0.89	



Morcor Engineering

Morcor Standard Plan

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Forehand Ranch North 22-21 State Com 2H
Project:	Forehand Ranch North 22-21 State Com 2H	TVD Reference:	WELL @ 3162.0usft (Original Well Elev)
Site:	Forehand Ranch North 22-21 State Com 2H	MD Reference:	WELL @ 3162.0usft (Original Well Elev)
Well:	Forehand Ranch North 22-21 State Com 2H	North Reference:	Grid
Wellbore:	Forehand Ranch North 22-21 State Com 2H	Survey Calculation Method:	Minimum Curvature
Design:	Forehand Ranch North 22-21 State Com 2H	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)	
2,386.0	6.97	171.88	2,357.8	-804.2	-292.2	102.6	591,820.66	470,403.52	-74.33	0.53	
2,481.0	6.85	171.62	2,452.1	-709.9	-303.5	104.2	591,822.30	470,392.21	-74.89	0.13	
2,575.0	7.75	173.15	2,545.4	-616.6	-315.4	105.8	591,823.87	470,380.37	-75.33	0.98	
2,669.0	8.44	165.21	2,638.5	-523.5	-328.3	108.3	591,826.39	470,367.41	-76.60	1.40	
2,763.0	8.32	162.82	2,731.4	-430.6	-341.5	112.1	591,830.16	470,354.24	-79.10	0.39	
2,858.0	7.65	165.03	2,825.5	-336.5	-354.2	115.8	591,833.82	470,341.57	-81.54	0.78	
2,952.0	7.28	166.81	2,918.7	-243.3	-366.0	118.7	591,836.80	470,329.73	-83.38	0.46	
3,047.0	7.45	163.44	3,012.9	-149.1	-377.8	121.9	591,839.93	470,317.96	-85.37	0.49	
3,141.0	7.91	162.96	3,106.1	-55.9	-389.8	125.5	591,843.56	470,305.94	-87.84	0.49	
3,235.0	9.20	162.49	3,199.1	37.1	-403.2	129.7	591,847.72	470,292.59	-90.71	1.37	
3,330.0	9.05	163.93	3,292.9	130.9	-417.6	134.0	591,852.07	470,278.16	-93.67	0.29	
3,424.0	8.69	163.75	3,385.7	223.7	-431.5	138.0	591,856.10	470,264.24	-96.36	0.38	
3,518.0	8.23	164.50	3,478.7	316.7	-444.8	141.8	591,859.89	470,250.94	-98.87	0.50	
3,612.0	7.76	165.46	3,571.8	409.8	-457.4	145.2	591,863.28	470,238.31	-101.04	0.52	
3,706.0	7.76	166.73	3,664.9	502.9	-469.8	148.3	591,866.33	470,226.00	-102.90	0.18	
3,801.0	9.06	168.10	3,758.9	596.9	-483.3	151.3	591,869.34	470,212.43	-104.61	1.38	
3,895.0	8.99	167.75	3,851.7	689.7	-497.7	154.4	591,872.43	470,198.01	-106.31	0.09	
3,989.0	8.73	169.71	3,944.6	782.6	-511.9	157.2	591,875.26	470,183.82	-107.78	0.42	
4,084.0	8.40	172.76	4,038.6	876.6	-525.9	159.4	591,877.42	470,169.84	-108.60	0.59	
4,178.0	8.26	172.05	4,131.6	969.6	-539.4	161.2	591,879.22	470,156.34	-109.11	0.18	
4,272.0	8.04	174.25	4,224.6	1,062.6	-552.6	162.8	591,880.81	470,143.11	-109.44	0.41	
4,366.0	9.02	169.90	4,317.6	1,155.6	-566.4	164.7	591,882.77	470,129.32	-110.07	1.25	
4,461.0	9.04	162.88	4,411.4	1,249.4	-580.9	168.2	591,886.27	470,114.85	-112.18	1.16	
4,555.0	8.60	161.44	4,504.3	1,342.3	-594.6	172.6	591,890.68	470,101.13	-115.26	0.52	
4,649.0	8.13	166.50	4,597.3	1,435.3	-607.7	176.4	591,894.47	470,088.01	-117.79	0.93	
4,743.0	8.67	160.51	4,690.3	1,528.3	-620.9	180.3	591,898.38	470,074.87	-120.43	1.09	
4,837.0	8.98	158.79	4,783.2	1,621.2	-634.4	185.3	591,903.40	470,061.35	-124.14	0.43	



Morcor Engineering

Morcor Standard Plan

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Forehand Ranch North 22-21 State Com 2H
Project:	Forehand Ranch North 22-21 State Com 2H	TVD Reference:	WELL @ 3162.0usft (Original Well Elev)
Site:	Forehand Ranch North 22-21 State Com 2H	MD Reference:	WELL @ 3162.0usft (Original Well Elev)
Well:	Forehand Ranch North 22-21 State Com 2H	North Reference:	Grid
Wellbore:	Forehand Ranch North 22-21 State Com 2H	Survey Calculation Method:	Minimum Curvature
Design:	Forehand Ranch North 22-21 State Com 2H	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)	
4,931.0	9.09	156.54	4,876.0	1,714.0	-648.1	191.0	591,909.01	470,047.70	-128.43	0.39	
5,025.0	8.42	159.77	4,968.9	1,806.9	-661.3	196.3	591,914.35	470,034.43	-132.48	0.88	
5,120.0	8.35	159.77	5,062.9	1,900.9	-674.3	201.1	591,919.14	470,021.43	-136.01	0.07	
5,215.0	8.50	158.85	5,156.9	1,994.9	-687.3	206.0	591,924.06	470,008.41	-139.67	0.21	
5,308.0	8.30	157.69	5,248.9	2,086.9	-700.0	211.0	591,929.08	469,995.79	-143.47	0.28	
5,402.0	8.77	158.11	5,341.8	2,179.8	-712.9	216.3	591,934.33	469,982.86	-147.46	0.50	
5,495.0	8.01	158.43	5,433.8	2,271.8	-725.5	221.3	591,939.36	469,970.26	-151.27	0.82	
5,590.0	7.35	159.79	5,528.0	2,366.0	-737.4	225.8	591,943.89	469,958.40	-154.65	0.72	
5,684.0	6.77	162.81	5,621.3	2,459.3	-748.3	229.6	591,947.61	469,947.46	-157.31	0.73	
5,779.0	6.39	162.13	5,715.7	2,553.7	-758.7	232.8	591,950.88	469,937.08	-159.58	0.41	
5,873.0	6.26	161.71	5,809.1	2,647.1	-768.5	236.0	591,954.10	469,927.24	-161.85	0.15	
5,968.0	5.25	167.99	5,903.6	2,741.6	-777.7	238.6	591,956.63	469,918.07	-163.49	1.25	
6,062.0	4.02	172.97	5,997.3	2,835.3	-785.2	239.9	591,957.92	469,910.59	-164.07	1.38	
6,157.0	3.77	176.00	6,092.1	2,930.1	-791.6	240.5	591,958.55	469,904.17	-164.08	0.34	
6,251.0	3.53	180.47	6,185.9	3,023.9	-797.6	240.7	591,958.74	469,898.19	-163.71	0.40	
6,346.0	3.42	178.55	6,280.7	3,118.7	-803.3	240.7	591,958.79	469,892.44	-163.21	0.17	
6,440.0	3.31	177.08	6,374.5	3,212.5	-808.8	240.9	591,959.00	469,886.92	-162.89	0.15	
6,524.0	2.96	169.02	6,458.4	3,296.4	-813.4	241.5	591,959.53	469,882.37	-162.99	0.67	
6,618.0	2.64	167.03	6,552.3	3,390.3	-817.9	242.4	591,960.48	469,877.88	-163.51	0.36	
6,712.0	2.20	172.84	6,646.2	3,484.2	-821.8	243.1	591,961.19	469,873.98	-163.84	0.54	
6,807.0	1.96	182.39	6,741.2	3,579.2	-825.2	243.3	591,961.35	469,870.55	-163.68	0.44	
6,902.0	1.63	186.85	6,836.1	3,674.1	-828.2	243.1	591,961.12	469,867.58	-163.17	0.38	
6,996.0	1.63	186.04	6,930.1	3,768.1	-830.8	242.8	591,960.82	469,864.93	-162.61	0.02	
7,090.0	1.67	176.17	7,024.0	3,862.0	-833.5	242.7	591,960.77	469,862.23	-162.31	0.30	
7,185.0	1.87	172.31	7,119.0	3,957.0	-836.4	243.0	591,961.07	469,859.31	-162.33	0.24	
7,280.0	2.04	174.71	7,213.9	4,051.9	-839.7	243.4	591,961.44	469,856.09	-162.38	0.20	
7,375.0	1.85	167.41	7,308.9	4,146.9	-842.8	243.9	591,961.93	469,852.91	-162.57	0.33	



Morcor Engineering

Morcor Standard Plan

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Site:	Forehand Ranch North 22-21 State Com 2H	MD Reference:	WELL @ 3162.0usft (Original Well Elev)
Well:	Forehand Ranch North 22-21 State Com 2H	North Reference:	Grid
Wellbore:	Forehand Ranch North 22-21 State Com 2H	Survey Calculation Method:	Minimum Curvature
Design:	Forehand Ranch North 22-21 State Com 2H	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)	
7,440.0	1.82	169.94	7,373.8	4,211.8	-844.9	244.3	591,962.34	469,850.87	-162.78	0.13	
7,576.0	1.49	177.48	7,509.8	4,347.8	-848.8	244.7	591,962.79	469,846.98	-162.87	0.29	
7,671.0	0.18	220.38	7,604.8	4,442.8	-850.1	244.7	591,962.75	469,845.63	-162.70	1.44	
7,766.0	1.73	352.77	7,699.8	4,537.8	-848.8	244.4	591,962.47	469,846.94	-162.54	1.95	
7,860.0	1.73	353.04	7,793.7	4,631.7	-846.0	244.1	591,962.12	469,849.76	-162.46	0.01	
7,954.0	3.09	0.17	7,887.6	4,725.6	-842.1	243.9	591,961.96	469,853.70	-162.67	1.48	
8,048.0	3.86	6.46	7,981.5	4,819.5	-836.4	244.3	591,962.32	469,859.38	-163.58	0.91	
8,142.0	3.78	8.39	8,075.3	4,913.3	-830.2	245.1	591,963.13	469,865.59	-164.97	0.16	
8,236.0	3.37	357.53	8,169.1	5,007.1	-824.3	245.4	591,963.46	469,871.41	-165.86	0.84	
8,331.0	2.54	3.44	8,263.9	5,101.9	-819.4	245.4	591,963.47	469,876.30	-166.33	0.93	
8,425.0	0.73	40.75	8,357.9	5,195.9	-816.9	245.9	591,963.98	469,878.84	-167.08	2.14	
8,519.0	0.20	0.61	8,451.9	5,289.9	-816.3	246.3	591,964.38	469,879.45	-167.53	0.63	
8,614.0	0.84	272.69	8,546.9	5,384.9	-816.1	245.6	591,963.68	469,879.65	-166.86	0.90	
KOP											
8,709.0	1.40	238.54	8,641.9	5,479.9	-816.7	243.9	591,962.00	469,879.08	-165.13	0.89	
8,757.0	8.49	267.02	8,689.7	5,527.7	-817.2	239.9	591,957.95	469,878.59	-161.06	15.19	
8,803.0	15.37	269.58	8,734.7	5,572.7	-817.4	230.4	591,948.45	469,878.37	-151.58	15.00	
8,850.0	22.30	270.21	8,779.1	5,617.1	-817.4	215.2	591,933.29	469,878.35	-136.48	14.75	
8,897.0	28.49	272.92	8,821.6	5,659.6	-816.8	195.1	591,913.16	469,878.96	-116.50	13.40	
8,945.0	31.03	274.37	8,863.2	5,701.2	-815.3	171.3	591,889.38	469,880.48	-92.98	5.50	
8,992.0	32.89	273.06	8,903.1	5,741.1	-813.7	146.5	591,864.56	469,882.09	-68.42	4.22	
9,040.0	37.04	273.46	8,942.4	5,780.4	-812.1	119.0	591,837.10	469,883.66	-41.24	8.66	
9,087.0	41.53	273.35	8,978.8	5,816.8	-810.3	89.3	591,807.40	469,885.42	-11.84	9.55	
9,134.0	46.36	272.21	9,012.6	5,850.6	-808.8	56.8	591,774.84	469,886.99	20.43	10.41	
9,181.0	51.17	271.41	9,043.6	5,881.6	-807.7	21.5	591,739.52	469,888.10	55.48	10.31	
9,228.0	54.49	269.93	9,072.0	5,910.0	-807.2	-16.0	591,702.08	469,888.52	92.71	7.50	
9,275.0	56.43	268.19	9,098.6	5,936.6	-807.9	-54.7	591,663.37	469,887.88	131.30	5.13	



Morcor Engineering

Morcor Standard Plan

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Site:	Forehand Ranch North 22-21 State Com 2H	MD Reference:	WELL @ 3162.0usft (Original Well Elev)
Well:	Forehand Ranch North 22-21 State Com 2H	North Reference:	Grid
Wellbore:	Forehand Ranch North 22-21 State Com 2H	Survey Calculation Method:	Minimum Curvature
Design:	Forehand Ranch North 22-21 State Com 2H	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)	
9,319.0	58.72	268.64	9,122.2	5,960.2	-808.9	-91.8	591,626.25	469,886.86	168.36	5.28	
9,323.0	59.11	268.60	9,124.3	5,962.3	-809.0	-95.2	591,622.82	469,886.78	171.77	9.79	
9,370.0	61.88	269.85	9,147.4	5,985.4	-809.5	-136.1	591,581.93	469,886.23	212.54	6.33	
9,418.0	64.25	271.38	9,169.2	6,007.2	-809.1	-178.9	591,539.14	469,886.69	255.08	5.70	
9,465.0	67.35	270.61	9,188.4	6,026.4	-808.3	-221.8	591,496.29	469,887.43	297.68	6.76	
9,512.0	71.12	268.23	9,205.1	6,043.1	-808.8	-265.7	591,452.35	469,886.98	341.45	9.31	
9,559.0	74.98	268.04	9,218.8	6,056.8	-810.2	-310.6	591,407.43	469,885.51	386.31	8.22	
9,606.0	81.90	268.37	9,228.2	6,066.2	-811.7	-356.6	591,361.43	469,884.07	432.24	14.74	
9,653.0	85.79	269.28	9,233.3	6,071.3	-812.6	-403.3	591,314.72	469,883.12	478.83	8.50	
First Take Point											
9,700.0	89.55	270.86	9,235.2	6,073.2	-812.6	-450.3	591,267.77	469,883.18	525.56	8.68	
9,761.0	89.27	272.44	9,235.8	6,073.8	-810.8	-511.3	591,206.80	469,884.93	586.09	2.63	
9,855.0	92.58	271.96	9,234.3	6,072.3	-807.2	-605.2	591,112.89	469,888.54	679.22	3.56	
9,950.0	93.65	271.80	9,229.1	6,067.1	-804.1	-700.0	591,018.09	469,891.65	773.30	1.14	
10,044.0	92.63	270.18	9,224.0	6,062.0	-802.5	-793.8	590,924.25	469,893.27	866.56	2.03	
10,138.0	92.13	270.27	9,220.1	6,058.1	-802.1	-887.7	590,830.33	469,893.64	960.02	0.54	
10,231.0	92.24	270.77	9,216.5	6,054.5	-801.3	-980.7	590,737.40	469,894.49	1,052.45	0.55	
10,325.0	92.19	269.28	9,212.9	6,050.9	-801.2	-1,074.6	590,643.47	469,894.53	1,145.94	1.58	
10,421.0	91.68	267.54	9,209.6	6,047.6	-803.9	-1,170.5	590,547.57	469,891.86	1,241.66	1.89	
10,514.0	91.85	267.76	9,206.8	6,044.8	-807.7	-1,263.4	590,454.69	469,888.05	1,334.48	0.30	
10,607.0	91.74	267.67	9,203.9	6,041.9	-811.4	-1,356.2	590,361.81	469,884.35	1,427.30	0.15	
10,702.0	91.79	267.86	9,200.9	6,038.9	-815.1	-1,451.1	590,266.93	469,880.64	1,522.10	0.21	
10,796.0	91.79	267.87	9,198.0	6,036.0	-818.6	-1,545.0	590,173.04	469,877.14	1,615.90	0.01	
10,890.0	91.96	267.94	9,194.9	6,032.9	-822.0	-1,638.9	590,079.15	469,873.71	1,709.68	0.20	
10,984.0	90.78	267.79	9,192.7	6,030.7	-825.5	-1,732.8	589,985.25	469,870.21	1,803.50	1.27	
11,078.0	90.67	267.69	9,191.5	6,029.5	-829.2	-1,826.7	589,891.33	469,866.50	1,897.34	0.16	
11,173.0	89.83	267.77	9,191.1	6,029.1	-833.0	-1,921.7	589,796.40	469,862.74	1,992.19	0.89	



Morcor Engineering

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Well:	Forehand Ranch North 22-21 State Com 2H	North Reference:	Grid
Wellbore:	Forehand Ranch North 22-21 State Com 2H	Survey Calculation Method:	Minimum Curvature
Design:	Forehand Ranch North 22-21 State Com 2H	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)
11,267.0	89.78	267.58	9,191.4	6,029.4	-836.8	-2,015.6	589,702.48	469,858.92	2,086.05	0.21
11,362.0	89.72	267.68	9,191.8	6,029.8	-840.8	-2,110.5	589,607.56	469,855.00	2,180.91	0.12
11,456.0	89.72	267.60	9,192.3	6,030.3	-844.6	-2,204.4	589,513.65	469,851.13	2,274.77	0.09
11,550.0	89.50	268.84	9,192.9	6,030.9	-847.5	-2,298.4	589,419.69	469,848.21	2,368.58	1.34
11,644.0	89.83	269.42	9,193.5	6,031.5	-849.0	-2,392.3	589,325.71	469,846.78	2,462.27	0.71
11,737.0	89.72	269.35	9,193.8	6,031.8	-850.0	-2,485.3	589,232.71	469,845.78	2,554.94	0.14
11,831.0	89.83	269.44	9,194.2	6,032.2	-851.0	-2,579.3	589,138.72	469,844.79	2,648.60	0.15
11,925.0	89.78	269.33	9,194.5	6,032.5	-852.0	-2,673.3	589,044.73	469,843.78	2,742.27	0.13
12,019.0	89.61	269.38	9,195.0	6,033.0	-853.0	-2,767.3	588,950.73	469,842.72	2,835.93	0.19
12,113.0	89.83	269.43	9,195.5	6,033.5	-854.0	-2,861.3	588,856.74	469,841.74	2,929.59	0.24
12,207.0	93.81	269.98	9,192.5	6,030.5	-854.5	-2,955.2	588,762.81	469,841.26	3,023.14	4.27
12,301.0	93.87	269.95	9,186.2	6,024.2	-854.5	-3,049.0	588,669.02	469,841.20	3,116.51	0.07
12,395.0	92.36	269.83	9,181.1	6,019.1	-854.7	-3,142.9	588,575.16	469,841.02	3,209.96	1.61
12,489.0	91.85	269.76	9,177.6	6,015.6	-855.1	-3,236.8	588,481.22	469,840.69	3,303.50	0.55
12,584.0	90.95	269.84	9,175.3	6,013.3	-855.4	-3,331.8	588,386.25	469,840.36	3,398.08	0.95
12,677.0	90.78	269.69	9,173.9	6,011.9	-855.8	-3,424.8	588,293.27	469,839.97	3,490.68	0.24
12,772.0	90.45	269.69	9,172.9	6,010.9	-856.3	-3,519.8	588,198.27	469,839.46	3,585.29	0.35
12,864.0	90.39	269.70	9,172.2	6,010.2	-856.8	-3,611.8	588,106.28	469,838.97	3,676.91	0.07
12,958.0	90.50	269.76	9,171.5	6,009.5	-857.2	-3,705.8	588,012.28	469,838.53	3,770.53	0.13
13,053.0	90.28	269.50	9,170.8	6,008.8	-857.8	-3,800.8	587,917.28	469,837.91	3,865.15	0.36
13,147.0	90.45	269.68	9,170.2	6,008.2	-858.5	-3,894.8	587,823.29	469,837.24	3,958.78	0.26
13,242.0	90.39	269.68	9,169.5	6,007.5	-859.0	-3,989.8	587,728.29	469,836.71	4,053.40	0.06
13,336.0	90.67	269.59	9,168.7	6,006.7	-859.6	-4,083.8	587,634.30	469,836.11	4,147.02	0.31
13,430.0	90.45	269.56	9,167.8	6,005.8	-860.3	-4,177.7	587,540.31	469,835.41	4,240.66	0.24
13,524.0	90.45	269.67	9,167.0	6,005.0	-861.0	-4,271.7	587,446.31	469,834.78	4,334.28	0.12
13,618.0	90.39	269.36	9,166.3	6,004.3	-861.8	-4,365.7	587,352.32	469,833.99	4,427.93	0.34
13,712.0	90.17	269.57	9,165.9	6,003.9	-862.6	-4,459.7	587,258.32	469,833.11	4,521.58	0.32



Morcor Engineering

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13,807.0	90.50	269.65	9,165.3	6,003.3	-863.3	-4,554.7	587,163.33	469,832.46	4,616.21	0.36	
13,901.0	90.45	269.66	9,164.5	6,002.5	-863.9	-4,648.7	587,069.33	469,831.90	4,709.83	0.05	
13,996.0	90.45	268.14	9,163.8	6,001.8	-865.7	-4,743.7	586,974.35	469,830.07	4,804.55	1.60	
14,090.0	90.39	267.47	9,163.1	6,001.1	-869.3	-4,837.6	586,880.43	469,826.47	4,898.39	0.72	
14,184.0	90.39	267.48	9,162.5	6,000.5	-873.4	-4,931.5	586,786.52	469,822.33	4,992.27	0.01	
14,278.0	90.45	267.80	9,161.8	5,999.8	-877.3	-5,025.5	586,692.60	469,818.46	5,086.13	0.35	
14,372.0	90.28	267.49	9,161.2	5,999.2	-881.2	-5,119.4	586,598.68	469,814.60	5,179.99	0.38	
14,466.0	90.56	267.64	9,160.5	5,998.5	-885.1	-5,213.3	586,504.77	469,810.61	5,273.85	0.34	
14,560.0	90.62	267.74	9,159.5	5,997.5	-888.9	-5,307.2	586,410.85	469,806.82	5,367.71	0.12	
14,655.0	90.34	267.58	9,158.7	5,996.7	-892.8	-5,402.1	586,315.94	469,802.94	5,462.56	0.34	
14,749.0	90.28	267.73	9,158.2	5,996.2	-896.7	-5,496.0	586,222.02	469,799.09	5,556.42	0.17	
14,843.0	90.45	267.66	9,157.6	5,995.6	-900.4	-5,590.0	586,128.09	469,795.31	5,650.28	0.20	
14,936.0	90.34	267.45	9,157.0	5,995.0	-904.4	-5,682.9	586,035.18	469,791.34	5,743.15	0.25	
15,030.0	90.39	267.36	9,156.4	5,994.4	-908.7	-5,776.8	585,941.28	469,787.09	5,837.03	0.11	
15,125.0	90.28	268.78	9,155.8	5,993.8	-911.9	-5,871.7	585,846.34	469,783.89	5,931.84	1.50	
15,219.0	90.28	269.05	9,155.4	5,993.4	-913.6	-5,965.7	585,752.35	469,782.11	6,025.57	0.29	
15,314.0	90.34	269.36	9,154.8	5,992.8	-915.0	-6,060.7	585,657.37	469,780.79	6,120.25	0.33	
15,407.0	90.45	269.32	9,154.2	5,992.2	-916.0	-6,153.7	585,564.37	469,779.72	6,212.92	0.13	
15,501.0	90.28	269.25	9,153.6	5,991.6	-917.2	-6,247.7	585,470.38	469,778.55	6,306.60	0.20	
15,595.0	90.34	269.37	9,153.1	5,991.1	-918.3	-6,341.7	585,376.39	469,777.42	6,400.27	0.14	
15,689.0	90.39	269.34	9,152.5	5,990.5	-919.4	-6,435.7	585,282.40	469,776.36	6,493.94	0.06	
15,783.0	90.39	269.34	9,151.9	5,989.9	-920.5	-6,529.6	585,188.41	469,775.27	6,587.61	0.00	
15,878.0	90.22	269.16	9,151.3	5,989.3	-921.7	-6,624.6	585,093.42	469,774.03	6,682.28	0.26	
15,972.0	90.56	269.13	9,150.7	5,988.7	-923.1	-6,718.6	584,999.43	469,772.63	6,775.98	0.36	
16,067.0	91.29	268.17	9,149.2	5,987.2	-925.4	-6,813.6	584,904.47	469,770.39	6,870.72	1.27	
16,161.0	89.94	269.85	9,148.2	5,986.2	-927.0	-6,907.6	584,810.50	469,768.77	6,964.42	2.29	
16,255.0	90.00	269.97	9,148.2	5,986.2	-927.1	-7,001.6	584,716.50	469,768.62	7,058.01	0.14	



Morcor Engineering

Morcor Standard Plan

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Forehand Ranch North 22-21 State Com 2H
Project:	Forehand Ranch North 22-21 State Com 2H	TVD Reference:	WELL @ 3162.0usft (Original Well Elev)
Site:	Forehand Ranch North 22-21 State Com 2H	MD Reference:	WELL @ 3162.0usft (Original Well Elev)
Well:	Forehand Ranch North 22-21 State Com 2H	North Reference:	Grid
Wellbore:	Forehand Ranch North 22-21 State Com 2H	Survey Calculation Method:	Minimum Curvature
Design:	Forehand Ranch North 22-21 State Com 2H	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)	
16,349.0	90.00	269.93	9,148.2	5,986.2	-927.2	-7,095.6	584,622.50	469,768.54	7,151.59	0.04	
16,442.0	90.17	270.01	9,148.1	5,986.1	-927.3	-7,188.6	584,529.50	469,768.49	7,244.17	0.20	
16,536.0	90.06	269.93	9,147.9	5,985.9	-927.3	-7,282.6	584,435.50	469,768.44	7,337.75	0.14	
16,631.0	90.67	269.95	9,147.3	5,985.3	-927.4	-7,377.6	584,340.50	469,768.34	7,432.33	0.64	
16,725.0	90.62	270.10	9,146.2	5,984.2	-927.4	-7,471.6	584,246.50	469,768.38	7,525.89	0.17	
16,820.0	90.45	269.77	9,145.3	5,983.3	-927.5	-7,566.5	584,151.51	469,768.27	7,620.47	0.39	
16,914.0	90.39	269.57	9,144.6	5,982.6	-928.0	-7,660.5	584,057.51	469,767.73	7,714.09	0.22	
17,009.0	90.56	269.77	9,143.9	5,981.9	-928.6	-7,755.5	583,962.52	469,767.18	7,808.70	0.28	
17,103.0	90.45	269.90	9,143.0	5,981.0	-928.8	-7,849.5	583,868.52	469,766.91	7,902.30	0.18	
17,197.0	90.56	269.74	9,142.2	5,980.2	-929.1	-7,943.5	583,774.53	469,766.62	7,995.90	0.21	
17,291.0	90.62	269.85	9,141.2	5,979.2	-929.5	-8,037.5	583,680.53	469,766.28	8,089.50	0.13	
17,385.0	91.23	269.40	9,139.7	5,977.7	-930.1	-8,131.5	583,586.55	469,765.67	8,183.11	0.81	
17,478.0	90.17	268.60	9,138.6	5,976.6	-931.7	-8,224.5	583,493.57	469,764.04	8,275.82	1.43	
17,572.0	90.50	267.97	9,138.0	5,976.0	-934.5	-8,318.4	583,399.61	469,761.23	8,369.62	0.76	
17,667.0	90.51	267.05	9,137.2	5,975.2	-938.6	-8,413.3	583,304.71	469,757.10	8,464.49	0.97	
17,762.0	90.39	266.82	9,136.4	5,974.4	-943.7	-8,508.2	583,209.85	469,752.02	8,559.40	0.27	
17,855.0	90.11	266.00	9,136.0	5,974.0	-949.5	-8,601.0	583,117.03	469,746.20	8,652.35	0.93	
17,950.0	91.29	265.82	9,134.9	5,972.9	-956.3	-8,695.8	583,022.28	469,739.43	8,747.31	1.26	
18,044.0	91.46	265.59	9,132.6	5,970.6	-963.4	-8,789.5	582,928.57	469,732.39	8,841.27	0.30	
18,139.0	91.29	264.97	9,130.3	5,968.3	-971.2	-8,884.1	582,833.92	469,724.57	8,936.23	0.68	
18,233.0	90.73	264.16	9,128.7	5,966.7	-980.1	-8,977.7	582,740.36	469,715.67	9,030.22	1.05	
18,326.0	88.49	266.21	9,129.3	5,967.3	-987.9	-9,070.4	582,647.70	469,707.87	9,123.20	3.26	
18,420.0	86.52	268.24	9,133.4	5,971.4	-992.4	-9,164.1	582,553.91	469,703.32	9,216.99	3.01	
18,515.0	86.91	271.07	9,138.9	5,976.9	-993.0	-9,259.0	582,459.08	469,702.75	9,311.45	3.00	
18,609.0	89.94	272.91	9,141.4	5,979.4	-989.7	-9,352.9	582,365.19	469,706.01	9,404.61	3.77	
18,703.0	91.18	273.41	9,140.5	5,978.5	-984.6	-9,446.7	582,271.34	469,711.19	9,497.54	1.42	
18,797.0	91.12	273.54	9,138.6	5,976.6	-978.9	-9,540.5	582,177.53	469,716.89	9,590.38	0.15	



Morcor Engineering

Morcor Standard Plan

Company: Caza Operating LLC
Project: Forehand Ranch North 22-21 State Com 2H
Site: Forehand Ranch North 22-21 State Com 2H
Well: Forehand Ranch North 22-21 State Com 2H
Wellbore: Forehand Ranch North 22-21 State Com 2H
Design: Forehand Ranch North 22-21 State Com 2H

Local Co-ordinate Reference: Well Forehand Ranch North 22-21 State Com 2H
TVD Reference: WELL @ 3162.0usft (Original Well Elev)
MD Reference: WELL @ 3162.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
18,986.0	91.74	272.12	9,133.9	5,971.9	-969.5	-9,729.2	581,988.82	469,726.22	9,777.34	0.82	
19,080.0	91.57	270.90	9,131.2	5,969.2	-967.1	-9,823.2	581,894.90	469,728.69	9,870.61	1.31	
19,169.0	91.57	270.09	9,128.8	5,966.8	-966.3	-9,912.1	581,805.93	469,729.46	9,959.09	0.91	
19,187.0	91.57	270.09	9,128.3	5,966.3	-966.3	-9,930.1	581,787.94	469,729.49	9,977.00	0.00	
Last Take Point											
19,278.0	91.57	270.09	9,125.8	5,963.8	-966.1	-10,021.1	581,696.98	469,729.63	10,067.54	0.00	
BHL											

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
8,614.0	8,546.9	-816.1	245.6	KOP	
9,653.0	9,233.3	-812.6	-403.3	First Take Point	
19,187.0	9,128.3	-966.3	-9,930.1	Last Take Point	
19,278.0	9,125.8	-966.1	-10,021.1	BHL	

Checked By: _____ Approved By: _____ Date: _____

This 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. 30-015-44621
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Forehand Ranch North 22-21 State Com
8. Well Number 2H
9. OGRID Number 249099
10. Pool name or Wildcat 98220 WC-025-G-08-S2535340 ; Bone Spring

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator Caza Oil and Gas, Inc	
3. Address of Operator 200 N. Lorraine St #1550., Midland, TX 79701	
4. Well Location Unit Letter H ; 1480 feet from the North line and 250 feet from the East line Section 22 Township 23S Range 27E NMPM County Eddy	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3140'GR	

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

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

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

10/1/2019 - Production casing was perf'd from 9646'-19187'MD with 0.40" perf size and 10 shots per foot. The well was fracked with 53,279,745lbs of sand.

Spud Date:

6/16/2019

Rig Release Date:

7/27/2019

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

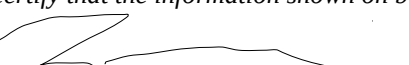
SIGNATURE  TITLE **Engineer** DATE **10/31/2021**

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. 30-015-44621								2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN		
3. State Oil & Gas Lease No.								5. Lease Name or Unit Agreement Name Forehand Ranch North 22-21 State Com 2H		
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								6. Well Number: 2H		
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 Purple Sage; Wolfcamp				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	H	22	23S	27E		1480	North	250	East	Eddy
BH:	E	21	23S	27E		2280.2	North	258.2	West	Eddy
13. Date Spudded 6/16/2019	14. Date T.D. Reached 7/24/2019		15. Date Rig Released 7/27/2019		16. Date Completed (Ready to Produce) 10/1/2019			17. Elevations (DF and RKB, RT, GR, etc.) 3140' GR		
18. Total Measured Depth of Well 19278			19. Plug Back Measured Depth 19187		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 9646 - 19187 Wolfcamp										
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		445		17.5		505sx		
9.625		40/47		7520		12.25		1272sx		
5.5		20		19278		8.75		3343sx		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	25. TUBING RECORD					
					SIZE	DEPTH SET	PACKER SET			
					2.875	8726	8726			
26. Perforation record (interval, size, and number) 9646'-19187', 0.42", 10spf					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
					DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
					9646-19187'		53,279,745lbs sand			
28. PRODUCTION										
Date First Production 10/18/2019		Production Method (Flowing, gas lift, pumping - Size and type pump) flowing				Well Status (Prod. or Shut-in) producing				
Date of Test 10/29/2019	Hours Tested 24	Choke Size 33/64	Prod'n For Test Period	Oil - Bbl 7 8 3	Gas - MCF 1770	Water - Bbl. 3404	Gas - Oil Ratio 2.26			
Flow Tubing Press. 1480	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) sold							30. Test Witnessed By K Garret			
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 10/31/2019	
E-mail Address steve.morris@morcorengineering.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.

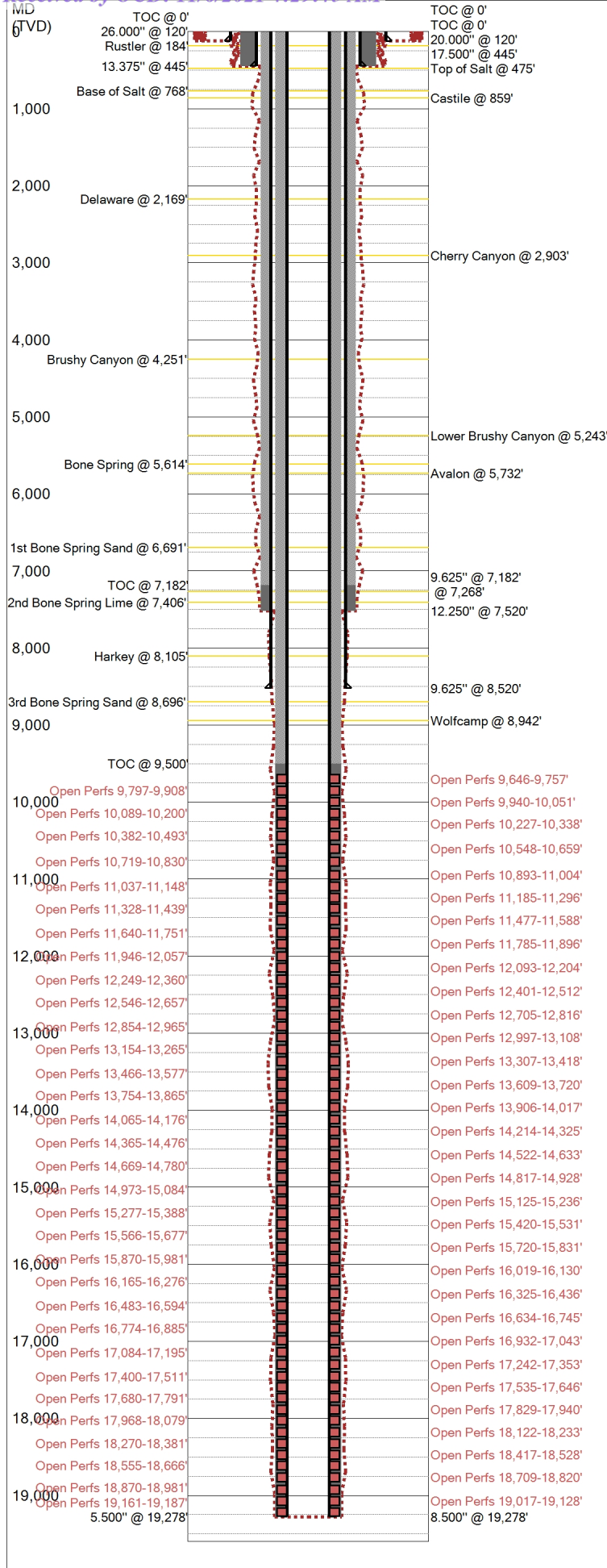
Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T.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



www.WellShadow.com

Last Updated: 11/6/2021 05:18 AM

Field Name			Lease Name			Well No.	
Forehand Ranch North			Forehand Ranch North 22-21 State Com			2H	
County			State			API No.	
Eddy			New Mexico			30015446210000	
Version		Version Tag					
1		Completed					
GL (ft)	KB (ft)	Section	Township/Block		Range/Survey		
3,140.0	3,162.0	22	23S		27E		
Operator			Well Status		Latitude		Longitude
Caza Operating			Completed		32.293911		-104.170287
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line		Footage From		
1480	FNL	250	FEL		SECTION		
Prop Num				Spud Date		Comp. Date	
320546							
Additional Information							
From the intersection of US Hwy 285 and Co. Rd 728 go west on 728 for 3.7 miles to Co. Rd 706 and turn left and go souh 0.3 miles, turn right and go west 0.1 miles to location							
OGRID		Pool Name and Code		Well Type		Dedicated Acres	
249099		Purple Sage; Wolfcamp (98220)		Oil		640	
Prepared By		Updated By			Last Updated		
Steve Morris		Steve Morris			11/6/2021 5:18 AM		
Hole Summary							
Date	Diam. (in)	Top (MD ft)	Bottom (MD ft)	Comments			
	26.000	0	120				
	17.500	20	445				
	12.250	445	7,520				
	8.500	7,520	19,278				
Tubular Summary							
Date	Description		O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Conductor Casing		20.000	94.00	H90	0	120
	Surface Casing		13.375	54.50	J55	0	445
	Intermediate Casing		9.625	40.00	HCL80	0	7,182
	Intermediate Casing		9.625	47.00	HCL80	7,182	8,520
	Production Casing		5.500	17.00	P110	0	19,278
Casing Cement Summary							
C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments	
		505	13.375	0	445		
		2,699	9.625	0	7,182		
		1,083	9.625	7,182	7,520		
		996	5.500	0	9,500		
		2,347	5.500	9,500	19,278		
Perforation Summary							
C	Date	Perf. Status	Formation		OA Top (MD ft)	OA Bottom (MD ft)	
		Open	Wolfcamp		9646	9,757	
		Open	Wolfcamp		9797	9,908	
		Open	Wolfcamp		9940	10,051	
		Open	Wolfcamp		10089	10,200	
		Open	Wolfcamp		10227	10,338	
		Open	Wolfcamp		10382	10,493	
		Open	Wolfcamp		10548	10,659	

Page 1 of 10

Last Updated: 11/6/2021 05:18 AM

C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)
		Open	Wolfcamp	10719	10,830
		Open	Wolfcamp	10893	11,004
		Open	Wolfcamp	11037	11,148
		Open	Wolfcamp	11185	11,296
		Open	Wolfcamp	11328	11,439
		Open	Wolfcamp	11477	11,588
		Open	Wolfcamp	11640	11,751
		Open	Wolfcamp	11785	11,896
		Open	Wolfcamp	11946	12,057
		Open	Wolfcamp	12093	12,204
		Open	Wolfcamp	12249	12,360
		Open	Wolfcamp	12401	12,512
		Open	Wolfcamp	12546	12,657
		Open	Wolfcamp	12705	12,816
		Open	Wolfcamp	12854	12,965
		Open	Wolfcamp	12997	13,108
		Open	Wolfcamp	13154	13,265
		Open	Wolfcamp	13307	13,418
		Open	Wolfcamp	13466	13,577
		Open	Wolfcamp	13609	13,720
		Open	Wolfcamp	13754	13,865
		Open	Wolfcamp	13906	14,017
		Open	Wolfcamp	14065	14,176
		Open	Wolfcamp	14214	14,325
		Open	Wolfcamp	14365	14,476
		Open	Wolfcamp	14522	14,633
		Open	Wolfcamp	14669	14,780
		Open	Wolfcamp	14817	14,928
		Open	Wolfcamp	14973	15,084
		Open	Wolfcamp	15125	15,236
		Open	Wolfcamp	15277	15,388
		Open	Wolfcamp	15420	15,531
		Open	Wolfcamp	15566	15,677
		Open	Wolfcamp	15720	15,831
		Open	Wolfcamp	15870	15,981
		Open	Wolfcamp	16019	16,130
		Open	Wolfcamp	16165	16,276
		Open	Wolfcamp	16325	16,436
		Open	Wolfcamp	16483	16,594
		Open	Wolfcamp	16634	16,745
		Open	Wolfcamp	16774	16,885
		Open	Wolfcamp	16932	17,043
		Open	Wolfcamp	17084	17,195
		Open	Wolfcamp	17242	17,353
		Open	Wolfcamp	17400	17,511
		Open	Wolfcamp	17535	17,646
		Open	Wolfcamp	17680	17,791
		Open	Wolfcamp	17829	17,940
		Open	Wolfcamp	17968	18,079
		Open	Wolfcamp	18122	18,233
		Open	Wolfcamp	18270	18,381
		Open	Wolfcamp	18417	18,528
		Open	Wolfcamp	18555	18,666
		Open	Wolfcamp	18709	18,820

Last Updated: 11/6/2021 05:18 AM

C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)
		Open	Wolfcamp	18870	18,981
		Open	Wolfcamp	19017	19,128
		Open	Wolfcamp	19161	19,187

Formation Tops Summary

Formation	Top (TVD ft)	Comments
Rustler	184	
Top of Salt	475	
Base of Salt	768	
Castile	859	
Delaware	2,169	
Cherry Canyon	2,903	
Brushy Canyon	4,251	
Lower Brushy Canyon	5,243	
Bone Spring	5,614	
Avalon	5,732	
1st Bone Spring Sand	6,691	
	7,268	
2nd Bone Spring Lime	7,406	
Harkey	8,105	
3rd Bone Spring Sand	8,696	
Wolfcamp	8,942	

Last Updated: 11/6/2021 05:18 AM

Field Name		Lease Name		Well No.	County	State	API No.			
Forehand Ranch North		Forehand Ranch North 22-21 State Com		2H	Eddy	New Mexico	30015446210000			
Version	Version Tag				Spud Date		Comp. Date	GL (ft)	KB (ft)	
1	Completed							3,140.0	3,162.0	
Section	Township/Block		Range/Survey		Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From	
22	23S		27E		1,480	FNL	250	FEL	SECTION	
Operator			Well Status			Latitude		Longitude	Prop Num	
Caza Operating			Completed			32.293911		-104.170287	320546	
OGRID		Pool Name and Code			Well Type			Dedicated Acres		
249099		Purple Sage; Wolfcamp (98220)			Oil			640		
Last Updated		Prepared By				Updated By				
11/06/2021 5:18 AM		Steve Morris				Steve Morris				
Additional Information										
From the intersection of US Hwy 285 and Co. Rd 728 go west on 728 for 3.7 miles to Co. Rd 706 and turn left and go souh 0.3 miles, turn right and go west 0.1 miles to location										
Hole Summary										
Date	Diam. (in)	Top (MD ft)	Bottom (MD ft)	Comments						
	26.000	0	120							
	17.500	20	445							
	12.250	445	7,520							
	8.500	7,520	19,278							
Tubular Summary										
Date	Description		No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Coupling	Top (MD ft)	Bottom (MD ft)	Comments
	Conductor Casing		5	20.000	94.00	H90		0	120	
	Surface Casing		12	13.375	54.50	J55	STC	0	445	
	Intermediate Casing		47	9.625	40.00	HCL80	BTC	0	7,182	
	Intermediate Casing		6	9.625	47.00	HCL80	BTC	7,182	8,520	
	Production Casing		471	5.500	17.00	P110	CDCHTQ	0	19,278	
Casing Cement Summary										
C	Date	No. Sx	Yield (ft3/sk)	Vol. (ft3)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments	
		505	1.33	672	13.375	0	445	Class C		
		2,699	2.65	7,152	9.625	0	7,182	Class C		
		1,083	1.33	1,440	9.625	7,182	7,520	Class C		
		996	2.65	2,639	5.500	0	9,500	Class H		
		2,347	1.65	3,873	5.500	9,500	19,278	Class H		
Perforation Summary										
C	Date	Perf. Status	Formation		Closed Date		Comments			
		Open	Wolfcamp				Stage 64			
Top (MD ft)		Bottom (MD ft)		SPF	Shots	Phasing (deg)	Interval Comments			
9646		9,757		10		60				
C	Date	Perf. Status	Formation		Closed Date		Comments			
		Open	Wolfcamp				Stage 63			
Top (MD ft)		Bottom (MD ft)		SPF	Shots	Phasing (deg)	Interval Comments			
9797		9,908		10		60				
C	Date	Perf. Status	Formation		Closed Date		Comments			
		Open	Wolfcamp				Stage 62			
Top (MD ft)		Bottom (MD ft)		SPF	Shots	Phasing (deg)	Interval Comments			
9940		10,051		10		60				
C	Date	Perf. Status	Formation		Closed Date		Comments			
		Open	Wolfcamp				Stage 61			
Top (MD ft)		Bottom (MD ft)		SPF	Shots	Phasing (deg)	Interval Comments			

Last Updated: 11/6/2021 05:18 AM

C	Date	Perf. Status	Formation	Closed Date	Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	10089	10,200	10		60
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 60
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	10227	10,338	10		60
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 59
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	10382	10,493	10		60
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 58
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	10548	10,659	10		60
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 57
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	10719	10,830	10		60
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 56
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	10893	11,004	10		60
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 55
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	11037	11,148	10		60
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 54
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	11185	11,296	10		60
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 53
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	11328	11,439	10		60
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 52
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	11477	11,588	10		60
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 51
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	11640	11,751	10		60
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 50
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	11785	11,896	10		60
C	Date	Perf. Status	Formation	Closed Date	Comments

Last Updated: 11/6/2021 05:18 AM

C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 49
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	11946	12,057	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 48
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	12093	12,204	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 47
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	12249	12,360	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 46
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	12401	12,512	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 45
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	12546	12,657	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 44
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	12705	12,816	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 43
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	12854	12,965	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 42
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	12997	13,108	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 41
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	13154	13,265	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 40
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	13307	13,418	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 39
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	13466	13,577	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 38
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	13609	13,720	10		60
	Interval Comments				

Last Updated: 11/6/2021 05:18 AM

C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 37
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	13754	13,865	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 36
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	13906	14,017	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 35
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	14065	14,176	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 34
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	14214	14,325	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 33
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	14365	14,476	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 32
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	14522	14,633	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 31
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	14669	14,780	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 30
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	14817	14,928	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 29
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	14973	15,084	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 28
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	15125	15,236	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 27
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	15277	15,388	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 26
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	15420	15,531	10		60
	Interval Comments				

Last Updated: 11/6/2021 05:18 AM

C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 25
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	15566	15,677	10		60
					Interval Comments
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 24
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	15720	15,831	10		60
					Interval Comments
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 23
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	15870	15,981	10		60
					Interval Comments
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 22
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	16019	16,130	10		60
					Interval Comments
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 21
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	16165	16,276	10		60
					Interval Comments
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 20
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	16325	16,436	10		60
					Interval Comments
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 19
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	16483	16,594	10		60
					Interval Comments
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 18
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	16634	16,745	10		60
					Interval Comments
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 17
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	16774	16,885	10		60
					Interval Comments
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 16
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	16932	17,043	10		60
					Interval Comments
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 15
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	17084	17,195	10		60
					Interval Comments
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 14
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	17242	17,353	10		60
					Interval Comments

Last Updated: 11/6/2021 05:18 AM

C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 13
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	17400	17,511	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 12
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	17535	17,646	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 11
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	17680	17,791	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 10
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	17829	17,940	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 9
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	17968	18,079	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 8
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	18122	18,233	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 7
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	18270	18,381	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 6
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	18417	18,528	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 5
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	18555	18,666	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 4
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	18709	18,820	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 3
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	18870	18,981	10		60
	Interval Comments				
C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 2
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)
	19017	19,128	10		60
	Interval Comments				

Last Updated: 11/6/2021 05:18 AM

C	Date	Perf. Status	Formation	Closed Date	Comments
		Open	Wolfcamp		Stage 1
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
19161	19,187	10		60	

Formation Top Summary

Formation Name	Top(TVD ft)	Comments
Rustler	184	
Top of Salt	475	
Base of Salt	768	
Castile	859	
Delaware	2,169	
Cherry Canyon	2,903	
Brushy Canyon	4,251	
Lower Brushy Canyon	5,243	
Bone Spring	5,614	
Avalon	5,732	
1st Bone Spring Sand	6,691	
	7,268	
2nd Bone Spring Lime	7,406	
Harkey	8,105	
3rd Bone Spring Sand	8,696	
Wolfcamp	8,942	

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 60574

ACKNOWLEDGMENTS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 60574
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 60574

CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 60574
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	1/27/2022