

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 15-45372	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 4H

II. ¹⁰ Surface Location

UL or lot no. H	Section 22	Township 23S	Range 27E	Lot Idn	Feet from the 1440	North/South Line north	Feet from the 250	East/West line east	County Eddy
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	----------------

¹¹ Bottom Hole Location

UL or lot no. D	Section 21	Township 23S	Range 27E	Lot Idn	Feet from the 1014	North/South line north	Feet from the 1251	East/West line west	County 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

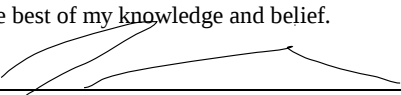
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
34053	Plains Marketing, LP 333 Clay St #1600, Houston, TX 77002	O
	Sendero Carlsbad Midstream LLC 1000 Louisiana St. #6900 Carlsbad, NM 77002	G
	Black River Water Management LLC 1 Lincoln Center, 5400 LBJ Freeway #1500, Dallas, TX 75240	W

IV. Well Completion Data

²¹ Spud Date 6/1/2019	²² Ready Date 9/26/2019	²³ TD 18309	²⁴ PBTD 18225	²⁵ Perforations 9567-18225	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17.5		13.375" J-55 54.5#	450		504sx
12.25		9.625" HCL80 40#& HCL-80 47#	7483		2808sx
8.75		5.5" P-110 20#	18309		4275sx

V. Well Test Data

³¹ Date New Oil 10/14/2019	³² Gas Delivery Date 10/14/2019	³³ Test Date 10/29/2019	³⁴ Test Length 24hrs	³⁵ Tbg. Pressure 1650	³⁶ Csg. Pressure
³⁷ Choke Size 31/64	³⁸ Oil 726	³⁹ Water 3311	⁴⁰ Gas 1427		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, NM 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45372	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code 320546	⁵ Property Name FOREHAND RANCH NORTH 22-21 STATE COM	⁶ Well Number 4H
⁷ OGRID No. 299049	⁸ Operator Name CAZA OPERATING, LLC	⁹ Elevation 3140'

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	T23S	R27E		1440	NORTH	250	EAST	EDDY

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
D	21	T23S	R27E		1014	NORTH	1251	WEST	EDDY

¹² Dedicated Acres 640.00	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.

¹⁶ SEC. 8 SECTION 9 SEC. 17 SECTION 16 LAST TAKE POINT 18,225' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 582771.59 / Y: 471015.69 LAT:32.29482454N / LON:104.19923903W NAD 27, SPCS NM EAST X: 541589.38 / Y: 470956.95 LAT:32.29470549N / LON:104.19873953W BOTTOM HOLE LOCATION 18,309' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 582688.60 / Y: 471005.01 LAT:32.29479547N / LON:104.19950765W NAD 27, SPCS NM EAST X: 541589.38 / Y: 470956.95 LAT:32.29470549N / LON:104.19873953W		SECTION 9 SECTION 16 FIRST TAKE POINT 9,517' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 591469.55 / Y: 471218.75 LAT:32.29534969N / LON:104.17108867W NAD 27, SPCS NM EAST X: 550287.21 / Y: 471159.90 LAT:32.29523023N / LON:104.17059024W		SECTION 10 SECTION 15 SURFACE HOLE LOCATION 1439' FNL 253' FEL, SECTION 22 NAD 83, SPCS NM EAST X: 591717.90 / Y: 470736.00 LAT:32.29402164N / LON:104.17028730W NAD 27, SPCS NM EAST X: 550535.54 / Y: 470677.16 LAT:32.29390216N / LON:104.16978894W KICK OFF POINT 8,597' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 591960.47 / Y: 471216.23 LAT:32.29534071N / LON:104.16949990W NAD 27, SPCS NM EAST X: 550778.12 / Y: 471157.37 LAT:32.29522123N / LON:104.16900153W		SEC. 11 SEC. 14 SEC. 14
SEC. 17 A SECTION 16 1334' 1004' 1251'		SECTION 16 B SECTION 15 100' (FARTHEST FROM LEASED MEASURED DEPTH 13,943')		SECTION 15 C SECTION 14 948' 951' 1439' 965' 10' 501' 253' (NEAREST TO LEASED MEASURED DEPTH 9,657')		
SEC. 20 SECTION 21 CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 581435.11' / Y: 472006.12' B - X: 586719.80' / Y: 472059.61' C - X: 591969.04' / Y: 472181.55' D - X: 591973.32' / Y: 469517.56' E - X: 586712.56' / Y: 469392.09' F - X: 581441.96' / Y: 469353.24'		SECTION 21 SECTION 22 CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 540252.94' / Y: 471947.38' B - X: 545537.55' / Y: 472000.80' C - X: 550786.71' / Y: 472122.67' D - X: 550790.93' / Y: 469458.75' E - X: 545530.25' / Y: 469333.35' F - X: 540259.74' / Y: 469294.57'		SECTION 22 SECTION 23 SEC. 23 SEC. 26		
SEC. 20 SECTION 21 SEC. 29 SECTION 28		SECTION 21 SECTION 22 SECTION 28 SECTION 27		SECTION 22 SECTION 23 SECTION 27 SECTION 26		

¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Steve Morris Date: 10/8/2019
 Printed Name: Steve Morris
 E-mail Address: steve.morris@morcorengineering.com

¹⁸ 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: _____
 Signature and Seal of Professional Surveyor: _____
 Certificate Number: _____

DISTANCES/AREAS RELATIVE TO NAD83 COMBINED SCALE FACTOR: 0.999911998
CONVERGENCE: 0.08710945'; NOTE: ALL DIMENSIONS IN U.S. FEET



Caza Forehand Ranch North 22-21 4H MWD Off to 18309ft MD Survey

Geodetic Report

(Def Survey)



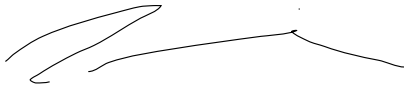
Report Date:	August 26, 2019 - 02:53 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Caza Operatin LLC	Vertical Section Azimuth:	271.770 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Caza Forehand Ranch North 22-21 4H / New Slot	TVD Reference Datum:	RKB
Well:	Forehand Ranch North 22-21 4H	TVD Reference Elevation:	3162.000 ft above MSL
Borehole:	Forehand Ranch North 22-21 4H	Seabed / Ground Elevation:	3140.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.196 °
Survey Name:	Caza Forehand Ranch North 22-21 4H MWD Off to 18309ft MD	Total Gravity Field Strength:	998.4654mgm (9.80665 Based)
Survey Date:	May 31, 2019	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	238.204 ' / 9845.468 ft / 6.668 / 1.067	Total Magnetic Field Strength:	47867.406 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.990 °
Location Lat / Long:	N 32° 17' 38.47791", W 104° 10' 13.03429"	Declination Date:	July 26, 2019
Location Grid N/E Y/X:	N 470736.000 RUS, E 591717.900 RUS	Magnetic Declination Model:	HDGM 2019
CRS Grid Convergence Angle:	0.0871 °	North Reference:	Grid North
Grid Scale Factor:	0.999912	Grid Convergence Used:	0.0871 °
Version / Patch:	2.10.782.0	Total Corr Mag North->Grid North:	7.1087 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure (ft)	Closure Azimuth (°)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface Location	0.00	0.00	271.75	0.00	0.00	0.00	0.00	N/A	0.00	0.00	470736.00	591717.90	N 32 17 38.48	W 104 10 13.03
Last Survey 13-3/8" Casing First SLB Survey	98.01	0.40	323.47	98.01	0.21	0.27	-0.20	0.41	0.34	323.47	470736.27	591717.70	N 32 17 38.48	W 104 10 13.04
	190.34	0.87	317.49	190.33	0.90	1.05	-0.87	0.51	1.36	320.40	470737.05	591717.03	N 32 17 38.49	W 104 10 13.04
	282.67	0.91	281.87	282.65	2.11	1.72	-2.06	0.59	2.68	309.83	470737.72	591715.84	N 32 17 38.49	W 104 10 13.06
	375.00	0.98	284.48	374.97	3.60	2.07	-3.54	0.09	4.10	300.26	470738.07	591714.36	N 32 17 38.50	W 104 10 13.08
	408.00	1.11	286.67	407.97	4.15	2.22	-4.09	0.44	4.65	298.50	470738.22	591713.81	N 32 17 38.50	W 104 10 13.08
	450.00	1.13	277.95	449.96	5.00	2.40	-4.92	0.39	5.48	296.00	470738.40	591712.98	N 32 17 38.50	W 104 10 13.09
	495.00	1.17	269.50	494.95	5.89	2.46	-5.82	0.39	6.32	292.89	470738.46	591712.08	N 32 17 38.50	W 104 10 13.10
	556.00	1.47	272.16	555.93	7.30	2.48	-7.23	0.50	7.64	288.96	470738.48	591710.67	N 32 17 38.50	W 104 10 13.12
	650.00	1.19	297.02	649.91	9.39	2.97	-9.30	0.67	9.76	287.72	470738.97	591708.60	N 32 17 38.51	W 104 10 13.14
	745.00	1.10	313.21	744.89	10.96	4.04	-10.84	0.35	11.57	290.45	470740.04	591707.06	N 32 17 38.52	W 104 10 13.16
9-5/8" Casing	839.00	0.79	9.36	838.88	11.55	5.30	-11.40	0.99	12.57	294.95	470741.30	591706.51	N 32 17 38.53	W 104 10 13.17
	933.00	1.18	67.31	932.87	10.59	6.31	-10.40	1.08	12.16	301.27	470742.31	591707.50	N 32 17 38.54	W 104 10 13.16
	1028.00	0.80	52.32	1027.85	9.18	7.10	-8.97	0.48	11.44	308.35	470743.10	591708.93	N 32 17 38.55	W 104 10 13.14
	1122.00	1.01	38.33	1121.84	8.18	8.15	-7.94	0.32	11.37	315.75	470744.15	591709.96	N 32 17 38.56	W 104 10 13.13
	1216.00	1.19	36.76	1215.82	7.13	9.58	-6.84	0.19	11.77	324.48	470745.58	591711.06	N 32 17 38.57	W 104 10 13.11
	1311.00	1.39	49.26	1310.80	5.72	11.12	-5.38	0.36	12.35	334.20	470747.12	591712.52	N 32 17 38.59	W 104 10 13.10
	1405.00	2.15	72.15	1404.75	3.22	12.41	-2.83	1.09	12.73	347.14	470748.40	591715.07	N 32 17 38.60	W 104 10 13.07
	1499.00	3.02	79.47	1498.66	-0.87	13.40	1.28	0.99	13.46	5.46	470749.40	591719.18	N 32 17 38.61	W 104 10 13.02
	1594.00	2.80	48.77	1593.54	-5.01	15.39	5.49	1.64	16.33	19.62	470751.38	591723.38	N 32 17 38.63	W 104 10 12.97
	1689.00	3.04	58.92	1688.42	-8.82	18.22	9.39	0.60	20.49	27.27	470754.21	591727.29	N 32 17 38.66	W 104 10 12.92
	1783.00	3.46	69.79	1782.27	-13.55	20.48	14.18	0.79	24.91	34.70	470756.48	591732.08	N 32 17 38.68	W 104 10 12.87
	1878.00	3.14	60.56	1877.11	-18.43	22.75	19.14	0.65	29.73	40.07	470758.75	591737.04	N 32 17 38.70	W 104 10 12.81
	1972.00	3.21	64.57	1970.97	-22.97	25.15	23.76	0.25	34.60	43.38	470761.14	591741.66	N 32 17 38.73	W 104 10 12.76
	2067.00	1.73	26.75	2065.88	-25.94	27.57	26.81	2.24	38.45	44.20	470763.57	591744.71	N 32 17 38.75	W 104 10 12.72
	2161.00	1.63	34.06	2159.84	-27.26	29.94	28.19	0.25	41.13	43.28	470765.94	591746.09	N 32 17 38.77	W 104 10 12.71
	2256.00	1.29	27.74	2254.81	-28.45	32.01	29.45	0.40	43.50	42.61	470768.01	591747.35	N 32 17 38.79	W 104 10 12.69
	2350.00	1.24	20.12	2348.79	-29.23	33.90	30.29	0.19	45.46	41.78	470769.90	591748.19	N 32 17 38.81	W 104 10 12.68
	2445.00	1.41	22.17	2443.76	-29.96	35.95	31.09	0.19	47.53	40.85	470771.95	591748.98	N 32 17 38.83	W 104 10 12.67
	2539.00	1.29	18.88	2537.74	-30.68	38.02	31.87	0.15	49.61	39.97	470774.02	591749.76	N 32 17 38.85	W 104 10 12.66
	2633.00	1.18	24.86	2631.71	-31.37	39.90	32.61	0.18	51.53	39.26	470775.90	591750.51	N 32 17 38.87	W 104 10 12.65
	2727.00	1.24	21.12	2725.69	-32.08	41.73	33.39	0.11	53.44	38.66	470777.72	591751.28	N 32 17 38.89	W 104 10 12.64
	2822.00	1.14	15.91	2820.67	-32.65	43.60	34.02	0.15	55.30	37.96	470779.59	591751.91	N 32 17 38.91	W 104 10 12.64
	2916.00	1.09	12.87	2914.65	-33.06	45.37	34.47	0.08	56.98	37.23	470781.36	591752.37	N 32 17 38.93	W 104 10 12.63
	3010.00	1.10	10.25	3008.64	-33.36	47.13	34.83	0.05	58.60	36.47	470783.12	591752.73	N 32 17 38.94	W 104 10 12.63
	3104.00	1.04	11.36	3102.62	-33.64	48.85	35.16	0.07	60.19	35.75	470784.85	591753.06	N 32 17 38.96	W 104 10 12.62
	3198.00	1.07	15.09	3196.60	-33.98	50.53	35.56	0.08	61.79	35.13	470786.53	591753.45	N 32 17 38.98	W 104 10 12.62
	3293.00	0.96	16.27	3291.59	-34.38	52.15	36.01	0.12	63.38	34.62	470788.15	591753.91	N 32 17 38.99	W 104 10 12.61
	3387.00	1.00	16.26	3385.58	-34.79	53.70	36.46	0.04	64.91	34.18	470789.69	591754.36	N 32 17 39.01	W 104 10 12.61
	3481.00	0.97	12.39	3479.56	-35.14	55.26	36.86	0.08	66.43	33.70	470791.26	591754.76	N 32 17 39.02	W 104 10 12.60
	3575.00	1.07	11.42	3573.55	-35.43	56.90	37.21	0.11	67.98	33.18	470792.89	591755.10	N 32 17 39.04	W 104 10 12.60
	3670.00	1.00	10.93	3668.53	-35.75	58.57	37.58	0.09	69.59	32.88	470794.57	591755.48	N 32 17 39.06	W 104 10 12.60
	3765.00	0.91	13.11	3763.52	-36.08	60.11	37.95	0.10	71.09	32.27	470796.11	591755.85	N 32 17 39.07	W 104 10 12.59
	3859.00	1.63	10.87	3857.49	-36.44	62.15	38.37	0.77	73.05	31.69	470798.15	591756.27	N 32 17 39.09	W 104 10 12.59
	3953.00	1.81	8.61	3951.45	-36.82	64.93	38.85	0.20	75.67	30.89	470800.93	591756.74	N 32 17 39.12	W 104 10 12.58
	4048.00	3.01	13.68	4046.37	-37.52	68.84	39.66	1.28	79.45	29.95	470804.83	591757.56	N 32 17 39.16	W 104 10 12.57
	4142.00	3.80	20.55	4140.20	-39.03	74.16	41.34	0.94	84.90	29.14	470810.15	591759.24	N 32 17 39.21	W 104 10 12.55
	4236.00	5.32	23.93	4233.90	-41.68	81.06	44.20	1.64	92.32	28.02	470817.05	591762.10	N 32 17 39.28	W 104 10 12.52
	4330.00	6.58	28.56	4327.39	-45.75	89.77	48.54	1.43	102.05	28.40	470825.76	591766.44	N 32 17 39.37	W 104 10 12.47
	4424.00	6.59	29.59	4420.77	-50.69	99.19	53.78	0.13	112.83	28.47	470835.18	591771.68	N 32 17 39.46	W 104 10 12.41
	4518.00	5.92	29.90	4514.21	-55.50	108.08	58.86	0.71	123.07	28.57	470844.07	591776.76	N 32 17 39.55	W 104 10 12.35
4613.00	5.82	27.76	4608.71	-59.92	116.59	63.55	0.25	132.79	28.59	470852.58	591781.44	N 32 17 39.63	W 104 10 12.29	
4707.00	5.43	27.28	4702.26	-63.92	124.76	67.81	0.42	142.00	28.52	470860.75	591785.70	N 32 17 39.71	W 104 10 12.24	
4801.00	5.36	29.12	4795.85	-67.85	132.55	71.98	0.20	150.84	28.50	470868.54	591789.87	N 32 17 39.79	W 104 10 12.19	
4896.00	5.89	28.84	4890.39	-72.11	140.70	76.49	0.56	160.15	28.53	470876.69	591794.38	N 32 17 39.87	W 104 10 12.14	
4990.00	5.90	28.54	4983.89	-76.48	149.17	81.13	0.03	169.80	28.54	470885.15	591799.02	N 32 17 39.95	W 104 10 12.09	
5084.00	6.55	29.63	5077.34	-81.16	158.07	86.09	0.70	179.99	28.57	470894.06	591803.98	N 32 17 40.04	W 104 10 12.03	
5179.00	6.22	30.59	5171.75	-86.17	167.21	91.38	0.37	190.55	28.66	470903.20	591809.27	N 32 17 40.13	W 104 10 11.97	
5273.00	5.98	29.67	5265.21	-90.92	175.85	96.40	0.28	200.54	28.73	470911.83	591814.29	N 32 17 40.22	W 104 10 11.91	
5367.00	5.77	31.15	5358.72	-95.53	184.15	101.27	0.28	210.16	28.81	470920.13	591819.16	N 32 17 40.30	W 104 10 11.85	
5461.00	5.21	33.34	5452.29	-100.08	191.76	106.06	0.64	219.13	28.85	470927.74	591823.95	N 32 17 40.37	W 104 10 11.80	
5555.00	5.91	30.69	5545.85	-104.66	199.48	110.87	0.79	228.23	29.06	470935.47	591828.76	N 32 17 40.46	W 104 10 11.74	
5650.00	5.57	29.78	5640.37	-109.19	207.69	115.66	0.37	237.72	29.11	470943.67	591833.55	N 32 17 40.53	W 104 10 11.68	
5744.00	5.33	31.05	5733.94	-113.47	215.39	120.18	0.29	246.65	29.16	470951.37	591838.06	N 32 17 40.61	W 104 10 11.63	
5838.00	5.83	33.34	5827.50	-118.10	223.12	125.05	0.58	255.78	29.27	470959.10	591842.94	N 32 17 40.68	W 104 10 11.57	
5932.00	5.89	32.10	5921.01	-123.04	231.20	130.24	0.15	265.36	29.39	470967.17	591848.13	N 32 17 40.76	W 104 10 11.51	
6026.00	5.69	27.64	6014.53	-127.50	239.41	1								

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure (ft)	Closure Azimuth (°)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	8928.00	20.53	273.94	8897.44	-182.96	484.73	198.03	10.92	523.62	22.52	471220.68	591915.91	N 32 17 43.27	W 104 10 10.72
	8975.00	26.34	272.64	8940.54	-164.29	485.78	179.37	12.41	517.84	20.27	471221.73	591897.26	N 32 17 43.28	W 104 10 10.94
	9022.00	31.42	268.23	8981.69	-141.61	485.88	156.70	11.71	510.52	17.87	471221.83	591874.58	N 32 17 43.28	W 104 10 11.20
	9069.00	36.73	264.58	9020.61	-115.42	484.17	130.44	12.10	501.43	15.08	471220.13	591848.33	N 32 17 43.27	W 104 10 11.51
	9117.00	40.24	263.57	9058.18	-85.83	481.08	100.73	7.43	491.51	11.83	471217.03	591818.63	N 32 17 43.24	W 104 10 11.85
	9164.00	44.25	264.65	9092.96	-54.52	477.85	69.31	8.67	482.85	8.25	471213.80	591787.20	N 32 17 43.21	W 104 10 12.22
	9230.00	52.46	270.37	9136.80	-20.11	476.86	20.11	14.02	476.86	2.42	471211.82	591738.01	N 32 17 43.19	W 104 10 12.79
	9282.00	59.84	272.84	9165.75	37.75	477.11	-23.02	14.73	477.67	357.24	471213.07	591694.88	N 32 17 43.20	W 104 10 13.29
	9329.00	68.04	273.37	9186.38	79.92	479.41	-65.15	17.48	483.81	352.26	471215.36	591652.76	N 32 17 43.22	W 104 10 13.78
Hardline Crossing [330' FNL/330' FEL]	9344.00	70.38	273.17	9191.71	93.94	480.21	-79.15	15.66	486.68	350.64	471216.16	591638.76	N 32 17 43.23	W 104 10 13.95
	9376.00	75.38	272.77	9201.12	124.51	481.79	-109.68	15.66	494.11	347.18	471217.75	591608.23	N 32 17 43.25	W 104 10 14.30
	9423.00	81.21	272.14	9210.19	170.19	483.25	-155.34	5.93	507.60	342.18	471219.21	591562.57	N 32 17 43.26	W 104 10 14.84
	9470.00	81.50	268.99	9220.71	216.37	483.21	-201.54	9.41	523.55	337.36	471219.16	591516.38	N 32 17 43.26	W 104 10 15.37
	9517.00	88.88	269.90	9224.65	263.13	482.76	-248.34	15.82	542.89	332.78	471218.71	591469.58	N 32 17 43.26	W 104 10 15.92
	9564.00	90.28	270.34	9224.99	310.11	482.85	-295.34	3.12	566.01	328.55	471218.81	591422.59	N 32 17 43.26	W 104 10 16.47
	9657.00	90.28	269.17	9224.54	403.05	482.46	-388.33	1.26	619.33	321.17	471218.41	591329.60	N 32 17 43.26	W 104 10 17.55
	9752.00	90.06	266.30	9224.25	497.80	478.70	-483.25	3.03	680.21	314.73	471214.66	591234.69	N 32 17 43.22	W 104 10 18.66
	9846.00	91.91	265.48	9222.64	591.29	471.97	-576.99	2.15	745.43	309.28	471207.92	591140.96	N 32 17 43.16	W 104 10 19.75
	9940.00	91.81	265.75	9219.55	684.76	475.86	-671.56	0.29	815.97	304.72	471200.74	591047.30	N 32 17 43.09	W 104 10 20.84
	10034.00	91.51	265.52	9216.80	778.12	457.63	-764.35	0.44	890.87	300.91	471193.59	590953.62	N 32 17 43.02	W 104 10 21.93
	10128.00	91.35	265.09	9214.45	871.49	449.94	-858.00	0.49	968.82	297.67	471185.90	590859.97	N 32 17 42.94	W 104 10 23.02
	10223.00	90.84	264.82	9212.64	965.80	441.59	-952.62	0.61	1049.99	294.87	471177.55	590765.37	N 32 17 42.86	W 104 10 24.12
	10317.00	91.07	266.89	9211.07	1059.29	434.79	-1046.35	2.22	1133.10	292.56	471170.76	590671.64	N 32 17 42.80	W 104 10 25.22
	10410.00	90.56	268.38	9209.75	1152.03	430.96	-1139.26	0.89	1218.05	290.72	471166.92	590578.74	N 32 17 42.76	W 104 10 26.30
	10505.00	90.11	268.65	9209.19	1246.86	424.41	-1234.23	0.55	1306.50	289.15	471164.46	590483.78	N 32 17 42.74	W 104 10 27.41
	10598.00	91.29	269.86	9208.06	1339.78	427.29	-1327.21	1.82	1394.30	287.85	471163.25	590390.81	N 32 17 42.73	W 104 10 28.49
	10692.00	91.18	269.56	9206.03	1433.69	426.81	-1421.19	0.34	1483.89	286.72	471162.77	590296.84	N 32 17 42.72	W 104 10 29.58
	10786.00	91.35	269.66	9203.95	1527.60	426.17	-1515.16	0.21	1573.96	285.71	471162.13	590202.87	N 32 17 42.72	W 104 10 30.68
	10881.00	91.23	270.02	9201.82	1622.53	425.91	-1610.14	0.40	1665.52	284.82	471161.87	590107.91	N 32 17 42.72	W 104 10 31.78
	10976.00	89.33	268.56	9201.35	1717.43	424.73	-1705.12	2.52	1757.22	283.99	471160.69	590012.93	N 32 17 42.71	W 104 10 32.89
	11070.00	88.88	268.61	9202.82	1811.27	422.41	-1799.08	0.48	1848.01	283.21	471158.37	589918.98	N 32 17 42.68	W 104 10 33.99
	11164.00	90.45	267.70	9203.37	1905.08	419.38	-1893.03	1.93	1938.93	282.49	471155.34	589825.04	N 32 17 42.66	W 104 10 35.08
	11258.00	90.90	267.06	9202.26	1998.80	415.08	-1986.92	0.83	2029.82	281.80	471151.05	589731.16	N 32 17 42.61	W 104 10 36.17
	11353.00	90.34	266.69	9201.23	2093.44	409.91	-2081.78	0.71	2121.75	281.14	471145.87	589636.31	N 32 17 42.56	W 104 10 37.28
	11446.00	91.18	268.03	9200.00	2186.16	405.62	-2174.67	1.70	2212.17	280.57	471141.59	589543.43	N 32 17 42.52	W 104 10 38.36
	11540.00	91.74	268.64	9197.60	2279.96	402.89	-2268.59	0.88	2304.09	280.07	471138.86	589449.51	N 32 17 42.50	W 104 10 39.46
	11633.00	91.07	270.75	9195.37	2372.75	400.07	-2361.52	1.13	2395.17	279.82	471136.03	589356.59	N 32 17 42.47	W 104 10 40.54
	11727.00	91.07	267.48	9193.67	2466.27	396.27	-2455.43	0.93	2487.20	279.17	471132.23	589262.69	N 32 17 42.44	W 104 10 41.63
	11821.00	90.90	268.22	9192.05	2560.26	392.74	-2549.35	0.81	2579.42	278.76	471128.70	589168.78	N 32 17 42.40	W 104 10 42.73
	11915.00	91.80	268.50	9189.84	2654.07	390.05	-2643.28	1.00	2671.91	278.39	471126.01	589074.85	N 32 17 42.38	W 104 10 43.82
	12009.00	91.57	268.11	9187.07	2747.86	387.27	-2737.20	0.48	2764.46	278.05	471123.24	588980.94	N 32 17 42.35	W 104 10 44.92
	12103.00	91.57	268.11	9184.50	2841.63	381.47	-2831.12	0.00	2857.06	277.73	471120.14	588887.04	N 32 17 42.32	W 104 10 46.01
	12197.00	91.52	268.60	9181.96	2935.43	381.47	-2925.04	0.52	2949.81	277.43	471117.44	588793.12	N 32 17 42.30	W 104 10 47.10
	12292.00	91.46	268.53	9179.43	3029.34	380.42	-3019.49	0.80	3043.99	277.33	471114.29	588698.98	N 32 17 42.27	W 104 10 48.21
	12386.00	91.74	271.83	9176.87	3124.30	384.02	-3113.93	0.60	3137.52	277.03	471111.99	588604.25	N 32 17 42.32	W 104 10 49.30
	12480.00	89.89	270.85	9175.53	3218.29	386.22	-3207.89	2.23	3231.05	276.87	471122.19	588510.30	N 32 17 42.35	W 104 10 50.40
	12574.00	89.72	271.37	9175.85	3312.28	388.04	-3301.87	0.58	3324.59	276.70	471124.01	588416.33	N 32 17 42.37	W 104 10 51.49
	12666.00	92.13	270.40	9174.37	3404.25	389.46	-3393.84	2.82	3416.11	276.58	471125.43	588324.37	N 32 17 42.38	W 104 10 52.56
	12761.00	92.19	270.26	9170.78	3499.15	390.01	-3488.77	0.16	3510.50	276.38	471125.95	588229.44	N 32 17 42.39	W 104 10 53.67
	12855.00	90.94	268.53	9168.30	3593.04	389.63	-3582.73	0.29	3603.79	276.22	471125.06	588135.50	N 32 17 42.38	W 104 10 54.77
	12949.00	90.35	268.33	9166.83	3686.87	386.61	-3676.68	0.34	3696.95	276.00	471122.57	588041.55	N 32 17 42.36	W 104 10 55.86
	13044.00	90.34	268.08	9165.76	3771.63	383.63	-3771.63	0.69	3791.09	275.81	471119.60	587946.61	N 32 17 42.33	W 104 10 56.97
	13139.00	89.89	267.21	9165.57	3876.43	379.73	-3866.55	1.03	3885.15	275.61	471115.69	587851.70	N 32 17 42.29	W 104 10 58.07
	13233.00	89.61	266.45	9165.98	3970.08	374.53	-3960.40	0.86	3978.07	275.40	471110.50	587757.85	N 32 17 42.24	W 104 10 59.17
	13327.00	89.55	265.19	9166.67	4063.57	367.68	-4054.15	1.34	4070.79	275.18	471103.64	587664.12	N 32 17 42.17	W 104 11 0.26
	13421.00	91.01	265.43	9165.67	4156.87	363.18	-4147.76	0.89	4163.28	274.95	471109.18	587570.52	N 32 17 42.08	W 104 11 1.34
	13514.00	90.67	265.78	9167.78	4249.23	351.18	-4240.41	2.09	4254.93	274.73	471108.15	587477.87	N 32 17 42.01	W 104 11 2.43
	13609.00	90.34	266.42	9166.95	4343.76	344.66	-4335.18	0.82	4348.86	274.55	471108.63	587383.11	N 32 17 41.95	W 104 11 3.53
	13703.00	88.49	264.72	9167.91	4437.19	337.40	-4428.89	2.67	4441.72	274.36	471107.37	587289.41	N 32 17 41.88	W 104 11 4.62
	13754.00	88.60	264.92	9169.20	4487.80	332.80	-4479.66	0.45	4492.01	274.25	471106.77	587238.64	N 32 17 41.84	W 104 11 5.71
	13848.00	89.61	266.06	9170.67	4581.23	325.41	-4573.36	1.62	4584.92	274.07	471106.18	587144.96	N 32 17 41.76	W 104 11 6.31
	13943.00	89.61	265.44	9169.52	4675.82	325.35	-4669.24	2.70	4679.25	273.85	471105.82	587050.08	N 32 17 41.72	W 104 11 7.41
	14037.00	92.02	271.11	9168.41	4769.83	320.48	-4762.20	0.48	4772.87	273.85	471105.46	586956.13	N 32 17 41.72	W 104 11 8.51
	14131.00	92.69	271.22	9164.55	4863.74	322.39	-4856.10	0.72	4866.79	273.80	471105.36	586862.23	N 32 17 41.74	W 104 11 9.60
	14225.00	91.07	272.42	9161.47	4957.69	325.38	-4950.00	2.14	4960.68	273.76	471106.13	586768.34	N 32 17 41.77	W 104 11 10.69
	14318.00	91.18	272.73	9159.64	5050.66	329.56	-5042.89							

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Closure (ft)	Closure Azimuth (°)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
		1	7483.000	18309.000	Act Stns	8.500	5.500	NAL_MWD_1.0_DEG			Forehand Ranch North 22-21 4H / Caza Forehand Ranch North 22-21			

this survey is true and accurate to the best of my knowledge.
Steve Morris



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

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-015-45372
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 4H
9. OGRID Number 249099
10. Pool name or Wildcat Purple Sage, Wolfcamp
4. Well Location Unit Letter H ; 1440 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:

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.

9/26/2019 - Production casing was perf'd from 9567'-18225'MD with 0.40" perf size and 10 shots per foot. The well was fracked with 24,499,204lbs of sand.

Spud Date:

6/1/2019

Rig Release Date:

8/18/2019

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

SIGNATURE



TITLE

Engineer

DATE

10/31/2019

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. 30-015-45372								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		
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								6. Well Number: 4H		
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		1440	North	250	East	Eddy
BH:	D	21	23S	27E		1014	North	1251	West	Eddy
13. Date Spudded 6/1/2019	14. Date T.D. Reached 8/16/2019		15. Date Rig Released 8/18/2019		16. Date Completed (Ready to Produce) 9/26/2019			17. Elevations (DF and RKB, RT, GR, etc.) 3140' GR		
18. Total Measured Depth of Well 18309			19. Plug Back Measured Depth 18225		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 9567-18225 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		450		17.5		504sx		
9.625		40/47		7483		12.25		2808sx		
5.5		20		18309		8.75		4275sx		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD		SIZE		DEPTH SET
								2.875		8726
										8726
26. Perforation record (interval, size, and number) 9567'-18225', 0.42", 10spf						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						9567-18225'		24,499,204lbs sand		
28. PRODUCTION										
Date First Production 10/14/2019		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) flowing				Well Status (<i>Prod. or Shut-in</i>) producing				
Date of Test 10/29/2019	Hours Tested 24	Choke Size 33/64	Prod'n For Test Period	Oil - Bbl 7 2 6	Gas - MCF 1427	Water - Bbl. 3311	Gas - Oil Ratio 1.96			
Flow Tubing Press. 1650	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>)				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) 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@morcoreengineering.com										

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

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

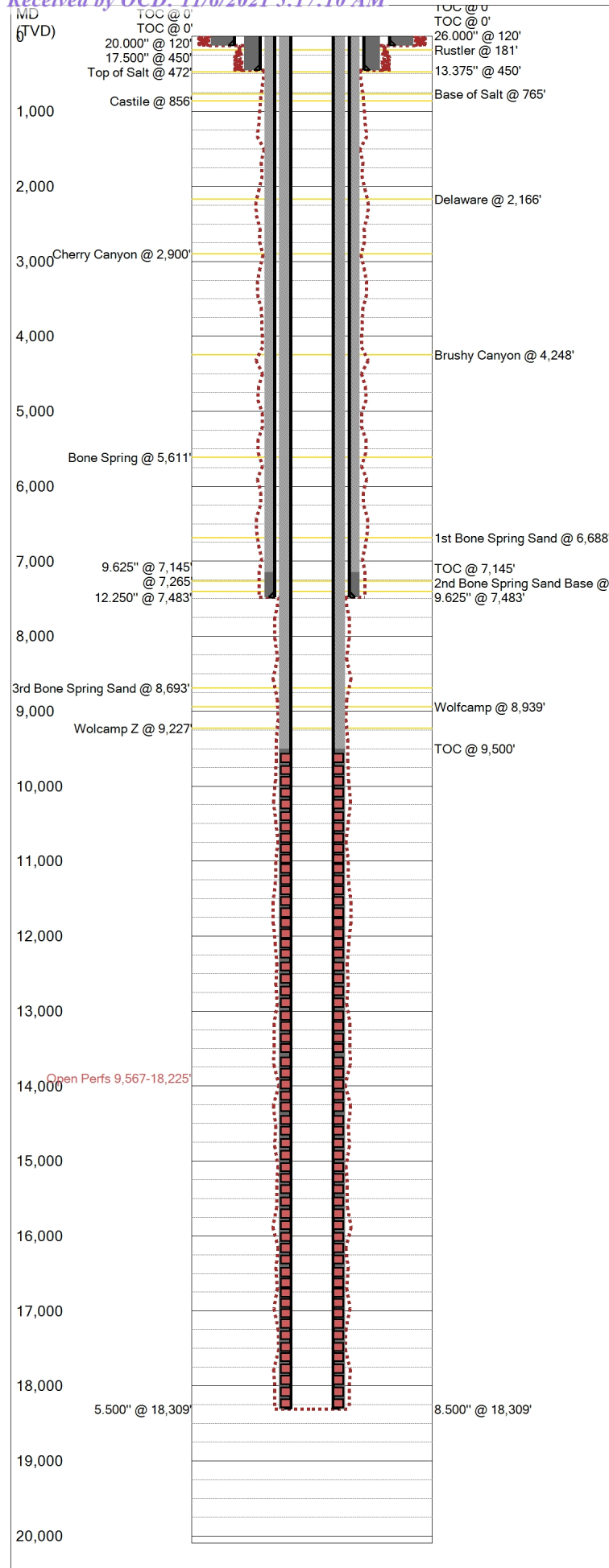
No. 1, from.....to.....
 No. 2, from.....to.....
 No. 3, from.....to.....
 No. 4, from.....to.....

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

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

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology



Last Updated: 11/6/2021 06:09 AM

Field Name			Lease Name		Well No.		
Forehand Ranch North			Forehand Ranch North 22-21 State Com		4H		
County		State			API No.		
Eddy		New Mexico			30015453720000		
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		32.294022		-104.170287	
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From			
1440	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)		Hz, Oil		640	
Prepared By		Updated By			Last Updated		
Steve Morris		Steve Morris			11/6/2021 6:09 AM		
Hole Summary							
Date	Diam. (in)	Top (MD ft)	Bottom (MD ft)	Comments			
	26.000	0	120				
	17.500	120	450				
	12.250	450	7,483				
	8.500	7,483	18,309				
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	450
	Intermediate Casing		9.625	40.00	HCL8 0	0	7,145
	Intermediate Casing		9.625	47.00	HCL8 0	7,145	7,483
	Production Casing		5.500	17.00	P110	0	18,309
Casing Cement Summary							
C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments	
		105	20.000	0	120		
		504	13.375	0	450		
		2,362	9.625	0	7,145		
		446	9.625	7,145	7,483		
		1,500	5.500	0	9,500		
		2,775	5.500	9,500	18,309		
Perforation Summary							
C	Date	Perf. Status	Formation		OA Top (MD ft)	OA Bottom (MD ft)	
		Open	Wolfcamp		9567	18,225	
Formation Tops Summary							
Formation			Top (TVD ft)	Comments			
Rustler			181				

Last Updated: 11/6/2021 06:09 AM

Formation	Top (TVD ft)	Comments
Top of Salt	472	
Base of Salt	765	
Castile	856	
Delaware	2,166	
Cherry Canyon	2,900	
Brushy Canyon	4,248	
Bone Spring	5,611	
1st Bone Spring Sand	6,688	
	7,265	
2nd Bone Spring Sand Base	7,403	
3rd Bone Spring Sand	8,693	
Wolfcamp	8,939	
Wolfcamp Z	9,227	

Last Updated: 11/6/2021 06:09 AM

Field Name		Lease Name		Well No.	County	State	API No.		
Forehand Ranch North		Forehand Ranch North 22-21 State Com		4H	Eddy	New Mexico	30015453720000		
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	1,440	FNL	250	FEL	SECTION		
Operator			Well Status		Latitude	Longitude	Prop Num		
Caza Operating			Completed		32.294022	-104.170287	320546		
OGRID		Pool Name and Code		Well Type		Dedicated Acres			
249099		Purple Sage; Wolfcamp (98220)		Hz, Oil		640			
Last Updated		Prepared By			Updated By				
11/06/2021 6:09 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 south 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	120	450						
	12.250	450	7,483						
	8.500	7,483	18,309						
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	12	13.375	54.50	J55	STC	0	450	
	Intermediate Casing	47	9.625	40.00	HCL80	BTC	0	7,145	
	Intermediate Casing	6	9.625	47.00	HCL80	BTC	7,145	7,483	
	Production Casing	460	5.500	17.00	P110	CDCHTQ	0	18,309	
Casing Cement Summary									
C	Date	No. Sx	Yield (ft3/sk)	Vol. (ft3)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
		105	1.33	140	20.000	0	120	Class C	
		504	1.33	670	13.375	0	450	Class C	
		2,362	2.65	6,259	9.625	0	7,145	Class C	
		446	1.33	593	9.625	7,145	7,483	Class C	
		1,500	2.29	3,435	5.500	0	9,500	Class H	
		2,775	1.65	4,579	5.500	9,500	18,309	Class H	
Perforation Summary									
C	Date	Perf. Status	Formation	Closed Date	Comments				
		Open	Wolfcamp						
Top (MD ft)		Bottom (MD ft)		SPF	Shots	Phasing (deg)	Interval Comments		
9567		9,678		10		60			
9728		9,839		10		60			
9878		9,989		10		60			
10031		10,142		10		60			
10184		10,295		10		60			
10344		10,455		10		60			
10490		10,601		10		60			
10635		10,746		10		60			
10774		10,885		10		60			
10909		11,020		10		60			
11044		11,155		10		60			
11195		11,306		10		60			
11332		11,443		10		60			

Last Updated: 11/6/2021 06:09 AM

C	Date	Perf. Status	Formation		Closed Date	Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11478	11,589	10		60	
	11629	11,740	10		60	
	11767	11,878	10		60	
	11909	12,020	10		60	
	12041	12,152	10		60	
	12177	12,288	10		60	
	12348	12,459	10		60	
	12511	12,622	10		60	
	12674	12,785	10		60	
	12834	12,945	10		60	
	13005	13,116	10		60	
	13149	13,260	10		60	
	13300	13,411	10		60	
	13439	13,550	10		60	
	13620	13,731	10		60	
	13769	13,880	10		60	
	13919	14,030	10		60	
	14074	14,185	10		60	
	14222	14,333	10		60	
	14396	14,507	10		60	
	14541	14,652	10		60	
	14703	14,814	10		60	
	14865	14,976	10		60	
	15025	15,136	10		60	
	15171	15,282	10		60	
	15321	15,432	10		60	
	15485	15,596	10		60	
	15647	15,758	10		60	
	15801	15,912	10		60	
	15956	16,067	10		60	
	16105	16,216	10		60	
	16259	16,370	10		60	
	16425	16,536	10		60	
	16569	16,680	10		60	
	16702	16,813	10		60	
	16838	16,949	10		60	
	16974	17,085	10		60	
	17115	17,226	10		60	
	17267	17,378	10		60	
	17423	17,534	10		60	
	17559	17,670	10		60	
	17713	17,824	10		60	
	17866	17,977	10		60	
	18023	18,134	10		60	
	18177	18,225	10		60	

Formation Top Summary

Formation Name	Top(TVD ft)	Comments
Rustler	181	
Top of Salt	472	
Base of Salt	765	
Castile	856	
Delaware	2,166	

Last Updated: 11/6/2021 06:09 AM

Formation Name	Top(TVD ft)	Comments
Cherry Canyon	2,900	
Brushy Canyon	4,248	
Bone Spring	5,611	
1st Bone Spring Sand	6,688	
	7,265	
2nd Bone Spring Sand Base	7,403	
3rd Bone Spring Sand	8,693	
Wolfcamp	8,939	
Wolfcamp Z	9,227	

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 60575

ACKNOWLEDGMENTS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 60575
	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 60575

CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 60575
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

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