

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

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Company 600 N. Marienfeld St., Suite 600 Midland, TX 79701		² OGRID Number 215099
		³ Reason for Filing Code/ Effective Date NW 2/09/22
⁴ API Number 30 - 025-46114	⁵ Pool Name WC-025 G-06 S253329D;UPR Bone Spring 97994	⁶ Pool Code 97994
⁷ Property Code 319775	⁸ Property Name Vaca Draw 20-17 Federal	⁹ Well Number 30H

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
M	20	25S	33E		331	South	1269	West	Lea

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
D	17	25S	33E		100	North	436	West	Lea
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 02/09/22	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
320009	Enlink Midstream Operating, LP	G
267255	Energy Transfer Partners, LP	O

IV. Well Completion Data

²¹ Spud Date 03/28/21	²² Ready Date 2/09/22	²³ TD 20,020MD/ 10,385TVD	²⁴ PBTD 20,011	²⁵ Perforations 10,700 - 19,986	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2	13-3/8	1061	1033		
12-1/4	9-5/8	4812	1596		
8-3/4	7	10,488	935		
6	4-1/2 3-1/2	20,020 8782	684		

V. Well Test Data

³¹ Date New Oil 02/09/22	³² Gas Delivery Date 02/09/22	³³ Test Date 03/08/22	³⁴ Test Length 24hrs	³⁵ Tbg. Pressure 573	³⁶ Csg. Pressure 222
³⁷ Choke Size 32	³⁸ Oil 855	³⁹ Water 4210	⁴⁰ Gas 1206		⁴¹ Test Method Gas Lift

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 	OIL CONSERVATION DIVISION
Printed name: Kanicia Schlichting	Approved by:
Title: Regulatory Analyst	Title:
E-mail Address: kschlichting@cimarex.com	Approval Date:
Date: 05/13/22	
Phone: 432-571-7894	

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 30-025-46114		² Pool Code 97994		³ Pool Name WC-025 G-06 S253329D; UPR Bone Spring					
⁴ Property Code 319775		⁵ Property Name VACA DRAW 20-17 FEDERAL						⁶ Well Number 30H	
⁷ OGRID No. 215099		⁸ Operator Name CIMAREX ENERGY CO.						⁹ Elevation 3419.6'	

¹⁰ Surface Location

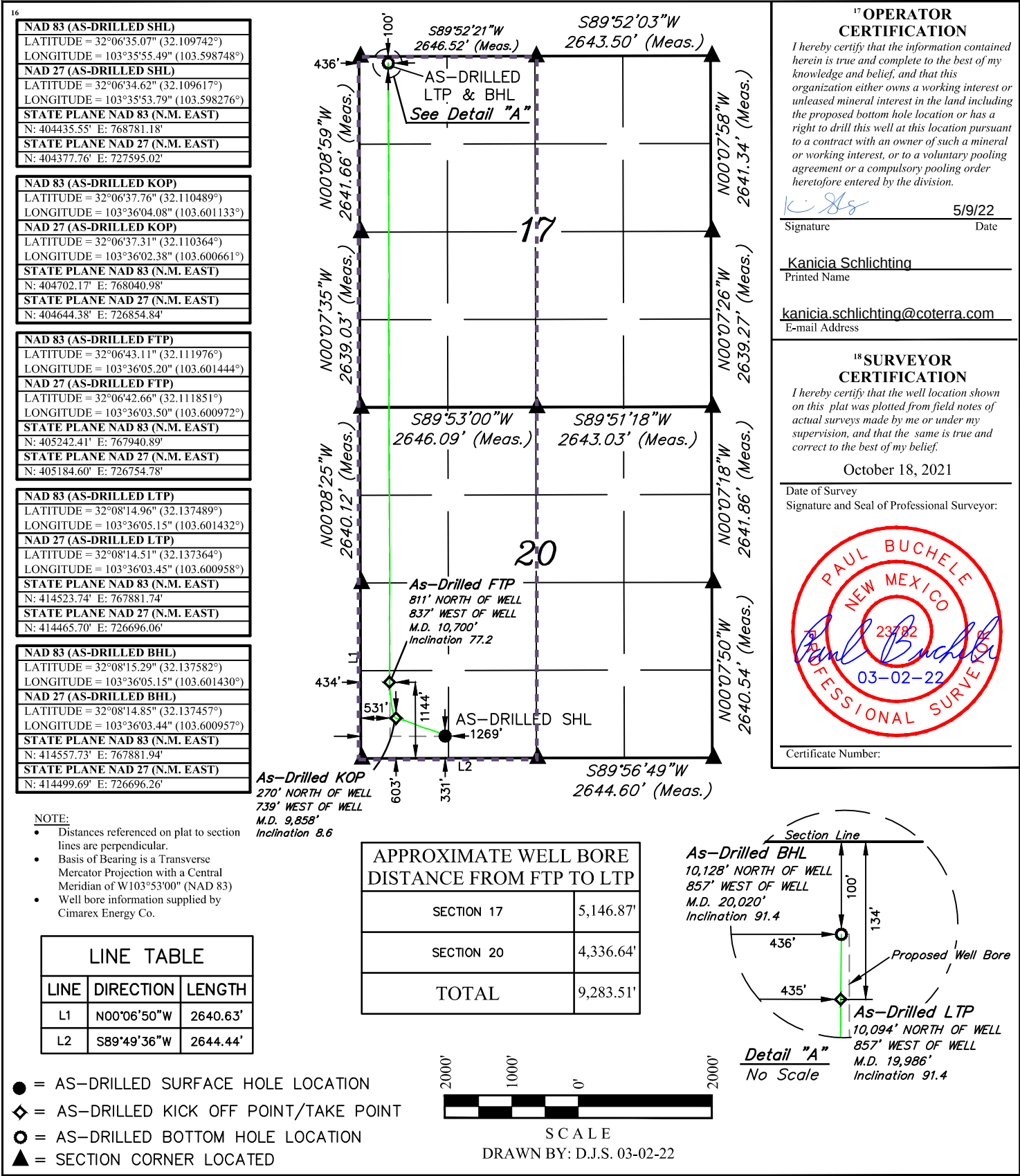
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	20	25S	33E		331	SOUTH	1269	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	17	25S	33E		100	NORTH	436	WEST	LEA

¹² Dedicated Acres 640		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. PC-1393			
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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.



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
Date 5/9/22

Kanicia Schlichting
Printed Name

kanicia.schlichting@coterra.com
E-mail Address

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.

October 18, 2021
Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number:



Actual Wellpath Report

Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Well	Vaca Draw 20-17 Federal 30H
Field	WC-025 G-06 S253329D; Upr Bone Spring - Lea County, NM (NAD-83)	API	30-025-46114-00
Facility	Vaca Draw 20-17 Federal Pad	Wellbore	Vaca Draw 20-17 Federal 30H AWB
Slot	Vaca Draw 20-17 Federal 30H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Moyagusa
Scale	0.999968	Report Generated	11/Jun/2021 at 09:55
Convergence at slot	0.39° East	Database	WA_HOU_Midland_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.11	20.02	768782.44	404435.30	32°06'35.0688"N	103°35'55.4793"W
Facility Reference Pt			768762.42	404435.19	32°06'35.0690"N	103°35'55.7121"W
Field Reference Pt			533303.25	1273342.63	34°30'0.0000"N	104°21'36.0000"W

WELLPATH DATUM

Calculation method	Minimum curvature	Cactus 163 (KB) to Facility Vertical Datum	3446.10ft
Horizontal Reference Pt	Slot	Cactus 163 (KB) to Mean Sea Level	3446.10ft
Vertical Reference Pt	Cactus 163 (KB)	Cactus 163 (KB) to Ground Level at Slot (Vaca Draw 20-17 Federal 30H)	25.00ft
MD Reference Pt	Cactus 163 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.63°



Actual Wellpath Report

Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

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REFERENCE WELLPATH IDENTIFICATION			
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Facility	Vaca Draw 20-17 Federal Pad	Wellbore	Vaca Draw 20-17 Federal 30H AWB
Slot	Vaca Draw 20-17 Federal 30H		

WELLPATH DATA (223 stations) † = interpolated, ‡ = extrapolated station														
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	159.690	0.00	0.00	0.00	0.00	768782.44	404435.30	32°06'35.0688"N	103°35'55.4793"W	0.00	0.00	0.00	
25.00	0.000	159.690	25.00	0.00	0.00	0.00	768782.44	404435.30	32°06'35.0688"N	103°35'55.4793"W	0.00	0.00	0.00	
183.00	0.200	159.690	183.00	-0.26	-0.26	0.10	768782.54	404435.04	32°06'35.0662"N	103°35'55.4782"W	0.13	0.13	0.00	17-1/2" TrueShot MWD Surveys 183'-1010'
312.00	0.140	207.450	312.00	-0.61	-0.61	0.10	768782.54	404434.69	32°06'35.0627"N	103°35'55.4782"W	0.11	-0.05	37.02	
402.00	0.140	104.560	402.00	-0.74	-0.73	0.16	768782.60	404434.57	32°06'35.0615"N	103°35'55.4775"W	0.24	0.00	-114.32	
493.00	0.140	136.880	493.00	-0.85	-0.84	0.34	768782.78	404434.46	32°06'35.0604"N	103°35'55.4754"W	0.09	0.00	35.52	
585.00	0.100	103.670	585.00	-0.95	-0.94	0.50	768782.94	404434.36	32°06'35.0594"N	103°35'55.4736"W	0.09	-0.04	-36.10	
674.00	0.060	23.360	674.00	-0.92	-0.92	0.59	768783.03	404434.38	32°06'35.0596"N	103°35'55.4725"W	0.12	-0.04	-90.24	
766.00	0.140	317.940	766.00	-0.80	-0.79	0.53	768782.97	404434.51	32°06'35.0609"N	103°35'55.4732"W	0.14	0.09	-71.11	
858.00	0.160	201.130	858.00	-0.83	-0.83	0.41	768782.85	404434.47	32°06'35.0605"N	103°35'55.4746"W	0.28	0.02	-126.97	
949.00	0.080	252.250	949.00	-0.97	-0.97	0.31	768782.75	404434.33	32°06'35.0592"N	103°35'55.4758"W	0.14	-0.09	56.18	
1010.00	0.060	99.120	1010.00	-0.99	-0.99	0.30	768782.74	404434.31	32°06'35.0590"N	103°35'55.4759"W	0.22	-0.03	-251.03	
1137.00	0.080	326.030	1137.00	-0.92	-0.92	0.31	768782.75	404434.38	32°06'35.0596"N	103°35'55.4757"W	0.10	0.02	-104.80	12-1/4" TrueShot MWD Surveys 1137'-4745'
1232.00	0.060	114.310	1232.00	-0.89	-0.89	0.32	768782.76	404434.41	32°06'35.0600"N	103°35'55.4756"W	0.14	-0.02	156.08	
1326.00	0.040	126.300	1326.00	-0.93	-0.93	0.39	768782.83	404434.37	32°06'35.0596"N	103°35'55.4748"W	0.02	-0.02	12.76	
1420.00	2.050	115.240	1419.98	-1.68	-1.66	1.94	768784.38	404433.64	32°06'35.0522"N	103°35'55.4569"W	2.14	2.14	-11.77	
1514.00	2.260	112.160	1513.91	-3.11	-3.08	5.18	768787.62	404432.22	32°06'35.0379"N	103°35'55.4194"W	0.26	0.22	-3.28	
1608.00	2.330	112.310	1607.84	-4.56	-4.50	8.66	768791.10	404430.80	32°06'35.0236"N	103°35'55.3790"W	0.07	0.07	0.16	
1703.00	2.370	111.170	1702.76	-6.03	-5.95	12.28	768794.72	404429.35	32°06'35.0091"N	103°35'55.3370"W	0.06	0.04	-1.20	
1798.00	2.600	113.060	1797.67	-7.60	-7.50	16.09	768798.53	404427.80	32°06'34.9935"N	103°35'55.2928"W	0.26	0.24	1.99	
1892.00	2.700	110.070	1891.57	-9.22	-9.09	20.13	768802.57	404426.21	32°06'34.9774"N	103°35'55.2459"W	0.18	0.11	-3.18	
1987.00	2.990	106.060	1986.45	-10.71	-10.55	24.62	768807.06	404424.75	32°06'34.9627"N	103°35'55.1939"W	0.37	0.31	-4.22	
2082.00	1.580	119.510	2081.37	-12.06	-11.88	28.14	768810.58	404423.42	32°06'34.9493"N	103°35'55.1531"W	1.58	-1.48	14.16	
2177.00	0.980	151.500	2176.35	-13.43	-13.24	29.67	768812.10	404422.06	32°06'34.9358"N	103°35'55.1355"W	0.96	-0.63	33.67	
2272.00	1.080	134.890	2271.33	-14.78	-14.58	30.69	768813.13	404420.72	32°06'34.9224"N	103°35'55.1237"W	0.33	0.11	-17.48	
2366.00	0.120	232.830	2365.33	-15.47	-15.27	31.24	768813.68	404420.03	32°06'34.9156"N	103°35'55.1174"W	1.17	-1.02	104.19	
2460.00	0.920	307.420	2459.32	-15.07	-14.87	30.56	768813.00	404420.43	32°06'34.9196"N	103°35'55.1252"W	0.95	0.85	79.35	
2555.00	0.880	333.110	2554.31	-13.95	-13.76	29.62	768812.06	404421.55	32°06'34.9306"N	103°35'55.1360"W	0.42	-0.04	27.04	
2649.00	1.020	341.410	2648.30	-12.51	-12.32	29.03	768811.47	404422.98	32°06'34.9449"N	103°35'55.1428"W	0.21	0.15	8.83	
2743.00	1.150	349.530	2742.28	-10.78	-10.60	28.59	768811.03	404424.70	32°06'34.9620"N	103°35'55.1477"W	0.21	0.14	8.64	



Actual Wellpath Report

Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Well	Vaca Draw 20-17 Federal 30H
Field	WC-025 G-06 S253329D; Upr Bone Spring - Lea County, NM (NAD-83)	API	30-025-46114-00
Facility	Vaca Draw 20-17 Federal Pad	Wellbore	Vaca Draw 20-17 Federal 30H AWB
Slot	Vaca Draw 20-17 Federal 30H		

WELLPATH DATA (223 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
2838.00	1.350	358.300	2837.26	-8.72	-8.54	28.39	768810.82	404426.76	32°06'34.9823"N	103°35'55.1500"W	0.29	0.21	9.23	
2932.00	1.130	348.330	2931.24	-6.71	-6.53	28.17	768810.60	404428.77	32°06'35.0023"N	103°35'55.1524"W	0.33	-0.23	-10.61	
3025.00	1.170	358.900	3024.22	-4.86	-4.68	27.96	768810.40	404430.62	32°06'35.0206"N	103°35'55.1546"W	0.23	0.04	11.37	
3120.00	0.760	29.000	3119.21	-3.34	-3.16	28.25	768810.69	404432.14	32°06'35.0356"N	103°35'55.1511"W	0.67	-0.43	31.68	
3214.00	0.200	132.140	3213.20	-2.91	-2.72	28.67	768811.11	404432.58	32°06'35.0399"N	103°35'55.1462"W	0.88	-0.60	109.72	
3308.00	0.500	181.960	3307.20	-3.43	-3.24	28.78	768811.22	404432.06	32°06'35.0347"N	103°35'55.1450"W	0.43	0.32	53.00	
3403.00	0.460	181.040	3402.20	-4.23	-4.04	28.76	768811.20	404431.26	32°06'35.0268"N	103°35'55.1453"W	0.04	-0.04	-0.97	
3497.00	0.600	182.840	3496.19	-5.09	-4.91	28.73	768811.17	404430.39	32°06'35.0183"N	103°35'55.1457"W	0.15	0.15	1.91	
3592.00	0.890	190.740	3591.19	-6.31	-6.13	28.57	768811.00	404429.17	32°06'35.0062"N	103°35'55.1477"W	0.32	0.31	8.32	
3686.00	0.920	192.060	3685.17	-7.77	-7.59	28.27	768810.71	404427.71	32°06'34.9918"N	103°35'55.1512"W	0.04	0.03	1.40	
3781.00	0.640	144.950	3780.17	-8.95	-8.77	28.42	768810.86	404426.53	32°06'34.9801"N	103°35'55.1496"W	0.71	-0.29	-49.59	
3875.00	0.790	124.120	3874.16	-9.75	-9.56	29.25	768811.69	404425.74	32°06'34.9722"N	103°35'55.1399"W	0.32	0.16	-22.16	
3969.00	0.910	116.760	3968.15	-10.45	-10.26	30.46	768812.90	404425.04	32°06'34.9652"N	103°35'55.1260"W	0.17	0.13	-7.83	
4064.00	1.020	113.330	4063.14	-11.14	-10.93	31.91	768814.35	404424.37	32°06'34.9584"N	103°35'55.1092"W	0.13	0.12	-3.61	
4158.00	0.280	165.490	4157.13	-11.70	-11.49	32.73	768815.17	404423.81	32°06'34.9529"N	103°35'55.0997"W	0.93	-0.79	55.49	
4252.00	0.930	155.530	4251.12	-12.62	-12.40	33.11	768815.55	404422.90	32°06'34.9438"N	103°35'55.0954"W	0.70	0.69	-10.60	
4347.00	0.670	210.920	4346.12	-13.80	-13.58	33.14	768815.58	404421.72	32°06'34.9321"N	103°35'55.0951"W	0.82	-0.27	58.31	
4441.00	0.850	228.820	4440.11	-14.72	-14.51	32.33	768814.77	404420.79	32°06'34.9230"N	103°35'55.1045"W	0.31	0.19	19.04	
4536.00	1.040	168.530	4535.10	-16.03	-15.82	31.98	768814.41	404419.48	32°06'34.9101"N	103°35'55.1088"W	1.01	0.20	-63.46	
4630.00	1.600	183.810	4629.07	-18.17	-17.97	32.06	768814.50	404417.33	32°06'34.8888"N	103°35'55.1080"W	0.70	0.60	16.26	
4725.00	1.890	212.970	4724.03	-20.80	-20.60	31.12	768813.56	404414.70	32°06'34.8628"N	103°35'55.1192"W	0.97	0.31	30.69	
4745.00	1.920	212.710	4744.02	-21.36	-21.16	30.76	768813.20	404414.14	32°06'34.8573"N	103°35'55.1234"W	0.16	0.15	-1.30	
4832.00	1.890	211.680	4830.97	-23.80	-23.61	29.22	768811.65	404411.69	32°06'34.8332"N	103°35'55.1415"W	0.05	-0.03	-1.18	8-3/4" TrueShot MWD Surveys 4832'-9800'
4899.00	1.870	243.540	4897.94	-25.22	-25.04	27.66	768810.10	404410.26	32°06'34.8191"N	103°35'55.1598"W	1.54	-0.03	47.55	
4993.00	3.400	286.430	4991.84	-25.08	-24.93	23.61	768806.05	404410.37	32°06'34.8205"N	103°35'55.2068"W	2.55	1.63	45.63	
5087.00	5.390	297.480	5085.56	-22.22	-22.11	17.02	768799.46	404413.19	32°06'34.8489"N	103°35'55.2832"W	2.29	2.12	11.76	
5182.00	7.460	301.950	5179.96	-16.83	-16.78	7.83	768790.27	404418.52	32°06'34.9022"N	103°35'55.3897"W	2.24	2.18	4.71	
5276.00	7.950	301.200	5273.11	-10.17	-10.19	-2.91	768779.53	404425.11	32°06'34.9682"N	103°35'55.5140"W	0.53	0.52	-0.80	
5371.00	8.160	310.360	5367.18	-2.33	-2.42	-13.67	768768.77	404432.88	32°06'35.0458"N	103°35'55.6384"W	1.37	0.22	9.64	
5465.00	8.320	309.410	5460.21	6.38	6.22	-24.01	768758.43	404441.52	32°06'35.1319"N	103°35'55.7579"W	0.22	0.17	-1.01	



Actual Wellpath Report

Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

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WELLPATH DATA (223 stations)														
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
5559.00	9.020	315.550	5553.14	16.02	15.80	-34.42	768748.02	404451.10	32°06'35.2274"N	103°35'55.8782"W	1.23	0.74	6.53	
5654.00	9.260	313.840	5646.93	26.70	26.41	-45.15	768737.29	404461.71	32°06'35.3331"N	103°35'56.0021"W	0.38	0.25	-1.80	
5749.00	9.740	307.060	5740.63	36.91	36.55	-57.08	768725.36	404471.85	32°06'35.4342"N	103°35'56.1400"W	1.28	0.51	-7.14	
5843.00	10.390	294.380	5833.19	45.30	44.84	-71.14	768711.30	404480.14	32°06'35.5172"N	103°35'56.3029"W	2.45	0.69	-13.49	
5938.00	9.640	287.510	5926.75	51.33	50.77	-86.53	768695.91	404486.07	32°06'35.5770"N	103°35'56.4813"W	1.48	-0.79	-7.23	
6032.00	9.470	286.710	6019.44	56.01	55.36	-101.45	768681.00	404490.66	32°06'35.6234"N	103°35'56.6543"W	0.23	-0.18	-0.85	
6126.00	9.670	285.740	6112.14	60.48	59.72	-116.45	768665.99	404495.02	32°06'35.6676"N	103°35'56.8284"W	0.27	0.21	-1.03	
6220.00	9.970	291.020	6204.76	65.63	64.79	-131.65	768650.80	404500.08	32°06'35.7187"N	103°35'57.0047"W	1.01	0.32	5.62	
6314.00	10.420	290.290	6297.28	71.60	70.65	-147.21	768635.23	404505.95	32°06'35.7778"N	103°35'57.1852"W	0.50	0.48	-0.78	
6408.00	10.560	290.210	6389.71	77.63	76.58	-163.27	768619.17	404511.87	32°06'35.8375"N	103°35'57.3714"W	0.15	0.15	-0.09	
6503.00	10.840	289.570	6483.05	83.73	82.57	-179.86	768602.59	404517.87	32°06'35.8980"N	103°35'57.5638"W	0.32	0.29	-0.67	
6597.00	11.160	288.910	6575.33	89.75	88.48	-196.79	768585.65	404523.78	32°06'35.9576"N	103°35'57.7602"W	0.37	0.34	-0.70	
6692.00	11.580	288.090	6668.46	95.81	94.42	-214.55	768567.89	404529.72	32°06'36.0176"N	103°35'57.9662"W	0.47	0.44	-0.86	
6786.00	11.340	287.360	6760.59	101.61	100.11	-232.34	768550.11	404535.41	32°06'36.0750"N	103°35'58.1726"W	0.30	-0.26	-0.78	
6880.00	12.530	289.670	6852.55	107.92	106.30	-250.77	768531.68	404541.60	32°06'36.1375"N	103°35'58.3863"W	1.36	1.27	2.46	
6975.00	9.960	283.630	6945.73	113.44	111.71	-268.46	768513.99	404547.00	32°06'36.1922"N	103°35'58.5915"W	2.97	-2.71	-6.36	
7069.00	9.450	281.940	7038.38	117.05	115.22	-283.91	768498.54	404550.52	32°06'36.2280"N	103°35'58.7709"W	0.62	-0.54	-1.80	
7163.00	9.200	282.460	7131.14	120.36	118.44	-298.79	768483.66	404553.73	32°06'36.2608"N	103°35'58.9437"W	0.28	-0.27	0.55	
7258.00	9.340	287.990	7224.90	124.48	122.46	-313.54	768468.91	404557.75	32°06'36.3016"N	103°35'59.1148"W	0.95	0.15	5.82	
7352.00	10.280	292.740	7317.53	130.17	128.05	-328.53	768453.92	404563.35	32°06'36.3580"N	103°35'59.2887"W	1.32	1.00	5.05	
7446.00	10.740	291.570	7409.95	136.74	134.52	-344.41	768438.04	404569.81	32°06'36.4230"N	103°35'59.4728"W	0.54	0.49	-1.24	
7540.00	10.120	290.350	7502.40	142.93	140.61	-360.30	768422.15	404575.90	32°06'36.4844"N	103°35'59.6570"W	0.70	-0.66	-1.30	
7634.00	9.630	288.780	7595.00	148.43	146.01	-375.49	768406.96	404581.31	32°06'36.5389"N	103°35'59.8331"W	0.59	-0.52	-1.67	
7728.00	10.030	291.030	7687.62	154.00	151.48	-390.57	768391.88	404586.78	32°06'36.5940"N	103°36'0.0081"W	0.59	0.43	2.39	
7822.00	10.430	292.670	7780.13	160.32	157.70	-406.07	768376.39	404592.99	32°06'36.6566"N	103°36'0.1877"W	0.53	0.43	1.74	
7917.00	11.160	293.090	7873.45	167.34	164.62	-422.46	768360.00	404599.91	32°06'36.7261"N	103°36'0.3777"W	0.77	0.77	0.44	
8011.00	10.720	292.230	7965.74	174.32	171.49	-438.92	768343.54	404606.79	32°06'36.7953"N	103°36'0.5685"W	0.50	-0.47	-0.91	
8105.00	10.000	290.280	8058.21	180.56	177.63	-454.67	768327.79	404612.92	32°06'36.8570"N	103°36'0.7512"W	0.85	-0.77	-2.07	
8199.00	10.220	288.930	8150.75	186.20	183.16	-470.21	768312.25	404618.46	32°06'36.9129"N	103°36'0.9314"W	0.34	0.23	-1.44	
8294.00	9.950	289.940	8244.28	191.83	188.70	-485.90	768296.56	404623.99	32°06'36.9687"N	103°36'1.1134"W	0.34	-0.28	1.06	



Actual Wellpath Report

Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Well	Vaca Draw 20-17 Federal 30H
Field	WC-025 G-06 S253329D; Upr Bone Spring - Lea County, NM (NAD-83)	API	30-025-46114-00
Facility	Vaca Draw 20-17 Federal Pad	Wellbore	Vaca Draw 20-17 Federal 30H AWB
Slot	Vaca Draw 20-17 Federal 30H		

WELLPATH DATA (223 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
8482.00	9.960	288.630	8429.45	202.76	199.43	-516.57	768265.88	404634.72	32°06'37.0769"N	103°36'1.4691"W	0.12	0.01	-0.70	
8577.00	9.940	292.460	8523.02	208.62	205.19	-531.94	768250.52	404640.48	32°06'37.1349"N	103°36'1.6473"W	0.70	-0.02	4.03	
8671.00	9.410	291.450	8615.68	214.62	211.10	-546.59	768235.87	404646.39	32°06'37.1944"N	103°36'1.8171"W	0.59	-0.56	-1.07	
8765.00	10.080	292.930	8708.33	220.73	217.11	-561.31	768221.15	404652.40	32°06'37.2549"N	103°36'1.9879"W	0.76	0.71	1.57	
8860.00	10.640	287.920	8801.78	226.77	223.05	-577.32	768205.14	404658.34	32°06'37.3147"N	103°36'2.1735"W	1.12	0.59	-5.27	
8954.00	9.890	285.110	8894.27	231.65	227.82	-593.37	768189.09	404663.12	32°06'37.3631"N	103°36'2.3597"W	0.96	-0.80	-2.99	
9048.00	10.310	284.900	8986.82	236.02	232.09	-609.29	768173.17	404667.38	32°06'37.4064"N	103°36'2.5445"W	0.45	0.45	-0.22	
9142.00	10.560	285.740	9079.26	240.63	236.59	-625.71	768156.75	404671.88	32°06'37.4520"N	103°36'2.7350"W	0.31	0.27	0.89	
9236.00	9.560	286.630	9171.82	245.30	241.16	-641.48	768140.98	404676.45	32°06'37.4983"N	103°36'2.9180"W	1.08	-1.06	0.95	
9330.00	10.050	282.990	9264.44	249.48	245.24	-656.95	768125.51	404680.53	32°06'37.5397"N	103°36'3.0975"W	0.84	0.52	-3.87	
9423.00	10.760	285.890	9355.91	253.78	249.44	-673.21	768109.26	404684.73	32°06'37.5823"N	103°36'3.2862"W	0.95	0.76	3.12	
9518.00	9.770	284.470	9449.39	258.33	253.88	-689.54	768092.92	404689.17	32°06'37.6274"N	103°36'3.4758"W	1.08	-1.04	-1.49	
9612.00	9.540	283.600	9542.06	262.25	257.71	-704.83	768077.63	404693.00	32°06'37.6662"N	103°36'3.6533"W	0.29	-0.24	-0.93	
9707.00	8.180	280.630	9635.93	265.44	260.80	-719.13	768063.33	404696.10	32°06'37.6979"N	103°36'3.8192"W	1.51	-1.43	-3.13	
9800.00	8.370	285.080	9727.96	268.51	263.79	-732.17	768050.30	404699.08	32°06'37.7282"N	103°36'3.9706"W	0.72	0.20	4.78	
9861.00	8.620	293.650	9788.29	271.55	266.77	-740.64	768041.82	404702.07	32°06'37.7584"N	103°36'4.0689"W	2.11	0.41	14.05	8-3/4" BH MWD Surveys 9861'-10616'
9908.00	13.730	314.530	9834.40	276.93	272.10	-747.85	768034.61	404707.40	32°06'37.8116"N	103°36'4.1523"W	13.70	10.87	44.43	
9955.00	16.680	324.240	9879.76	286.37	281.49	-755.77	768026.69	404716.78	32°06'37.9050"N	103°36'4.2436"W	8.27	6.28	20.66	
10002.00	21.430	330.390	9924.18	299.37	294.44	-763.96	768018.50	404729.73	32°06'38.0337"N	103°36'4.3378"W	10.96	10.11	13.09	
10050.00	28.200	338.650	9967.73	317.64	312.65	-772.44	768010.03	404747.94	32°06'38.2145"N	103°36'4.4349"W	15.81	14.10	17.21	
10097.00	33.510	344.000	10008.07	340.52	335.49	-780.06	768002.40	404770.78	32°06'38.4410"N	103°36'4.5217"W	12.71	11.30	11.38	
10144.00	36.290	345.960	10046.62	366.53	361.46	-787.02	767995.45	404796.75	32°06'38.6984"N	103°36'4.6005"W	6.38	5.91	4.17	
10191.00	37.730	348.370	10084.15	394.16	389.04	-793.29	767989.18	404824.33	32°06'38.9718"N	103°36'4.6713"W	4.35	3.06	5.13	
10238.00	39.760	349.920	10120.81	423.08	417.93	-798.82	767983.65	404853.21	32°06'39.2580"N	103°36'4.7333"W	4.79	4.32	3.30	
10285.00	44.750	350.510	10155.58	454.25	449.06	-804.18	767978.29	404884.35	32°06'39.5664"N	103°36'4.7932"W	10.65	10.62	1.26	
10333.00	48.720	351.340	10188.47	488.79	483.57	-809.69	767972.78	404918.86	32°06'39.9083"N	103°36'4.8544"W	8.37	8.27	1.73	
10380.00	52.080	353.860	10218.43	524.73	519.48	-814.33	767968.14	404954.76	32°06'40.2639"N	103°36'4.9056"W	8.26	7.15	5.36	
10427.00	57.040	353.670	10245.68	562.81	557.53	-818.49	767963.98	404992.81	32°06'40.6407"N	103°36'4.9509"W	10.56	10.55	-0.40	
10474.00	62.460	353.710	10269.35	603.17	597.87	-822.95	767959.52	405033.15	32°06'41.0401"N	103°36'4.9996"W	11.53	11.53	0.09	
10522.00	64.660	353.350	10290.72	645.91	640.57	-827.79	767954.68	405075.85	32°06'41.4630"N	103°36'5.0525"W	4.63	4.58	-0.75	



Actual Wellpath Report

Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Well	Vaca Draw 20-17 Federal 30H
Field	WC-025 G-06 S253329D; Upr Bone Spring - Lea County, NM (NAD-83)	API	30-025-46114-00
Facility	Vaca Draw 20-17 Federal Pad	Wellbore	Vaca Draw 20-17 Federal 30H AWB
Slot	Vaca Draw 20-17 Federal 30H		

WELLPATH DATA (223 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
10569.00	66.110	354.430	10310.29	688.42	683.06	-832.34	767950.13	405118.33	32°06'41.8837"N	103°36'5.1020"W	3.73	3.09	2.30	
10616.00	69.320	355.610	10328.11	731.76	726.38	-836.11	767946.36	405161.65	32°06'42.3126"N	103°36'5.1424"W	7.21	6.83	2.51	
10715.00	78.570	358.340	10355.47	826.69	821.27	-841.07	767941.40	405256.54	32°06'43.2519"N	103°36'5.1926"W	9.71	9.34	2.76	6" BH Lucida Enhanced MWD Surveys 10715'-19995'
10810.00	81.670	359.240	10371.77	920.26	914.83	-843.04	767939.43	405350.10	32°06'44.1778"N	103°36'5.2082"W	3.39	3.26	0.95	
10903.00	86.010	1.720	10381.75	1012.68	1007.26	-842.26	767940.21	405442.53	32°06'45.0924"N	103°36'5.1918"W	5.37	4.67	2.67	
10997.00	88.780	0.290	10386.02	1106.54	1101.14	-840.61	767941.85	405536.40	32°06'46.0212"N	103°36'5.1652"W	3.32	2.95	-1.52	
11091.00	89.800	359.720	10387.18	1200.53	1195.13	-840.61	767941.86	405630.39	32°06'46.9513"N	103°36'5.1577"W	1.24	1.09	-0.61	
11185.00	90.110	359.810	10387.26	1294.53	1289.13	-840.99	767941.48	405724.38	32°06'47.8814"N	103°36'5.1548"W	0.34	0.33	0.10	
11280.00	89.120	359.660	10387.90	1389.53	1384.12	-841.43	767941.04	405819.38	32°06'48.8214"N	103°36'5.1524"W	1.05	-1.04	-0.16	
11374.00	88.010	359.710	10390.25	1483.50	1478.09	-841.95	767940.52	405913.34	32°06'49.7513"N	103°36'5.1510"W	1.18	-1.18	0.05	
11468.00	87.950	359.530	10393.56	1577.44	1572.03	-842.57	767939.90	406007.28	32°06'50.6809"N	103°36'5.1508"W	0.20	-0.06	-0.19	
11562.00	89.400	359.710	10395.74	1671.41	1666.00	-843.19	767939.27	406101.24	32°06'51.6108"N	103°36'5.1506"W	1.55	1.54	0.19	
11656.00	89.490	359.540	10396.65	1765.41	1759.99	-843.81	767938.66	406195.23	32°06'52.5409"N	103°36'5.1504"W	0.20	0.10	-0.18	
11750.00	88.470	0.600	10398.32	1859.39	1853.98	-843.69	767938.77	406289.21	32°06'53.4708"N	103°36'5.1416"W	1.56	-1.09	1.13	
11844.00	89.770	359.960	10399.76	1953.37	1947.96	-843.24	767939.23	406383.20	32°06'54.4008"N	103°36'5.1289"W	1.54	1.38	-0.68	
11938.00	89.740	0.870	10400.17	2047.36	2041.96	-842.55	767939.91	406477.19	32°06'55.3308"N	103°36'5.1135"W	0.97	-0.03	0.97	
12032.00	93.720	1.440	10397.33	2141.26	2135.88	-840.66	767941.81	406571.10	32°06'56.2600"N	103°36'5.0841"W	4.28	4.23	0.61	
12126.00	91.800	359.430	10392.80	2235.13	2229.76	-839.95	767942.52	406664.98	32°06'57.1889"N	103°36'5.0684"W	2.96	-2.04	-2.14	
12220.00	89.680	359.370	10391.59	2329.12	2323.74	-840.93	767941.53	406758.96	32°06'58.1190"N	103°36'5.0724"W	2.26	-2.26	-0.06	
12314.00	89.340	359.810	10392.39	2423.11	2417.73	-841.61	767940.86	406852.95	32°06'59.0491"N	103°36'5.0728"W	0.59	-0.36	0.47	
12409.00	87.860	359.420	10394.71	2518.08	2512.70	-842.24	767940.22	406947.91	32°06'59.9888"N	103°36'5.0727"W	1.61	-1.56	-0.41	
12503.00	88.100	359.740	10398.03	2612.03	2606.64	-842.93	767939.53	407041.85	32°07'0.9184"N	103°36'5.0733"W	0.43	0.26	0.34	
12597.00	89.550	359.770	10399.95	2706.00	2700.61	-843.34	767939.13	407135.82	32°07'1.8483"N	103°36'5.0706"W	1.54	1.54	0.03	
12691.00	89.250	359.320	10400.94	2800.00	2794.60	-844.08	767938.39	407229.81	32°07'2.7785"N	103°36'5.0718"W	0.58	-0.32	-0.48	
12785.00	89.280	359.260	10402.14	2893.99	2888.59	-845.25	767937.22	407323.79	32°07'3.7085"N	103°36'5.0780"W	0.07	0.03	-0.06	
12879.00	89.550	359.460	10403.10	2987.98	2982.58	-846.30	767936.17	407417.78	32°07'4.6386"N	103°36'5.0827"W	0.36	0.29	0.21	
12973.00	90.290	359.240	10403.23	3081.98	3076.57	-847.36	767935.11	407511.77	32°07'5.5688"N	103°36'5.0877"W	0.82	0.79	-0.23	
13067.00	88.910	359.630	10403.89	3175.97	3170.56	-848.29	767934.18	407605.76	32°07'6.4989"N	103°36'5.0911"W	1.53	-1.47	0.41	
13161.00	89.180	359.230	10405.46	3269.96	3264.54	-849.22	767933.24	407699.73	32°07'7.4289"N	103°36'5.0945"W	0.51	0.29	-0.43	
13255.00	89.650	359.200	10406.42	3363.95	3358.53	-850.51	767931.96	407793.72	32°07'8.3590"N	103°36'5.1021"W	0.50	0.50	-0.03	



Actual Wellpath Report

Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Well	Vaca Draw 20-17 Federal 30H
Field	WC-025 G-06 S253329D; Upr Bone Spring - Lea County, NM (NAD-83)	API	30-025-46114-00
Facility	Vaca Draw 20-17 Federal Pad	Wellbore	Vaca Draw 20-17 Federal 30H AWB
Slot	Vaca Draw 20-17 Federal 30H		

WELLPATH DATA (223 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
13350.00	89.800	359.450	10406.87	3458.95	3453.52	-851.63	767930.84	407888.71	32°07'9.2990"N	103°36'5.1076"W	0.31	0.16	0.26	
13444.00	90.020	359.180	10407.02	3552.95	3547.52	-852.76	767929.71	407982.70	32°07'10.2292"N	103°36'5.1132"W	0.37	0.23	-0.29	
13538.00	90.020	358.670	10406.99	3646.94	3641.50	-854.52	767927.95	408076.68	32°07'11.1592"N	103°36'5.1263"W	0.54	0.00	-0.54	
13632.00	89.400	358.560	10407.46	3740.92	3735.47	-856.79	767925.68	408170.64	32°07'12.0892"N	103°36'5.1453"W	0.67	-0.66	-0.12	
13726.00	90.820	359.860	10407.28	3834.92	3829.46	-858.09	767924.38	408264.63	32°07'13.0193"N	103°36'5.1530"W	2.05	1.51	1.38	
13820.00	89.520	359.150	10407.00	3928.91	3923.45	-858.90	767923.57	408358.62	32°07'13.9495"N	103°36'5.1550"W	1.58	-1.38	-0.76	
13914.00	89.740	359.350	10407.61	4022.91	4017.44	-860.13	767922.34	408452.60	32°07'14.8796"N	103°36'5.1619"W	0.32	0.23	0.21	
14008.00	88.870	359.100	10408.75	4116.90	4111.42	-861.40	767921.07	408546.58	32°07'15.8096"N	103°36'5.1692"W	0.96	-0.93	-0.27	
14102.00	89.490	359.810	10410.10	4210.89	4205.41	-862.29	767920.17	408640.57	32°07'16.7397"N	103°36'5.1722"W	1.00	0.66	0.76	
14197.00	91.770	0.180	10409.05	4305.87	4300.40	-862.30	767920.17	408735.55	32°07'17.6796"N	103°36'5.1648"W	2.43	2.40	0.39	
14291.00	88.410	359.420	10408.91	4399.86	4394.38	-862.63	767919.84	408829.53	32°07'18.6096"N	103°36'5.1612"W	3.66	-3.57	-0.81	
14385.00	91.370	0.210	10409.09	4493.85	4488.37	-862.93	767919.53	408923.52	32°07'19.5397"N	103°36'5.1573"W	3.26	3.15	0.84	
14479.00	90.390	0.010	10407.64	4587.83	4582.36	-862.75	767919.71	409017.50	32°07'20.4697"N	103°36'5.1478"W	1.06	-1.04	-0.21	
14573.00	89.920	0.040	10407.39	4681.83	4676.36	-862.71	767919.76	409111.50	32°07'21.3998"N	103°36'5.1399"W	0.50	-0.50	0.03	
14668.00	90.200	358.170	10407.29	4776.82	4771.34	-864.20	767918.27	409206.48	32°07'22.3398"N	103°36'5.1496"W	1.99	0.29	-1.97	
14762.00	91.160	0.180	10406.17	4870.81	4865.32	-865.55	767916.92	409300.45	32°07'23.2698"N	103°36'5.1579"W	2.37	1.02	2.14	
14856.00	90.510	359.570	10404.80	4964.79	4959.31	-865.76	767916.71	409394.44	32°07'24.1998"N	103°36'5.1529"W	0.95	-0.69	-0.65	
14950.00	90.110	359.640	10404.29	5058.79	5053.30	-866.40	767916.07	409488.43	32°07'25.1300"N	103°36'5.1530"W	0.43	-0.43	0.07	
15045.00	90.080	359.510	10404.14	5153.79	5148.30	-867.11	767915.36	409583.43	32°07'26.0700"N	103°36'5.1537"W	0.14	-0.03	-0.14	
15139.00	90.230	359.620	10403.88	5247.79	5242.30	-867.82	767914.65	409677.42	32°07'27.0002"N	103°36'5.1546"W	0.20	0.16	0.12	
15233.00	89.800	359.920	10403.86	5341.79	5336.30	-868.20	767914.27	409771.42	32°07'27.9303"N	103°36'5.1515"W	0.56	-0.46	0.32	
15327.00	89.580	359.130	10404.37	5435.79	5430.29	-868.98	767913.49	409865.41	32°07'28.8605"N	103°36'5.1532"W	0.87	-0.23	-0.84	
15421.00	89.860	0.790	10404.83	5529.78	5524.29	-869.04	767913.43	409959.40	32°07'29.7906"N	103°36'5.1465"W	1.79	0.30	1.77	
15515.00	90.420	359.350	10404.60	5623.78	5618.28	-868.93	767913.54	410053.39	32°07'30.7207"N	103°36'5.1377"W	1.64	0.60	-1.53	
15609.00	89.770	358.720	10404.44	5717.77	5712.27	-870.51	767911.96	410147.38	32°07'31.6508"N	103°36'5.1487"W	0.96	-0.69	-0.67	
15703.00	88.290	358.940	10406.03	5811.75	5806.23	-872.43	767910.04	410241.34	32°07'32.5807"N	103°36'5.1636"W	1.59	-1.57	0.23	
15797.00	88.630	359.610	10408.56	5905.71	5900.19	-873.62	767908.85	410335.29	32°07'33.5105"N	103°36'5.1700"W	0.80	0.36	0.71	
15891.00	90.570	359.490	10409.21	5999.70	5994.18	-874.36	767908.11	410429.28	32°07'34.4406"N	103°36'5.1712"W	2.07	2.06	-0.13	
15985.00	88.510	358.180	10409.97	6093.68	6088.15	-876.27	767906.20	410523.25	32°07'35.3705"N	103°36'5.1860"W	2.60	-2.19	-1.39	
16079.00	89.830	0.930	10411.33	6187.66	6182.13	-877.00	767905.47	410617.22	32°07'36.3005"N	103°36'5.1870"W	3.24	1.40	2.93	



Actual Wellpath Report

Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Well	Vaca Draw 20-17 Federal 30H
Field	WC-025 G-06 S253329D; Upr Bone Spring - Lea County, NM (NAD-83)	API	30-025-46114-00
Facility	Vaca Draw 20-17 Federal Pad	Wellbore	Vaca Draw 20-17 Federal 30H AWB
Slot	Vaca Draw 20-17 Federal 30H		

WELLPATH DATA (223 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
16173.00	90.230	359.830	10411.28	6281.65	6276.12	-876.38	767906.09	410711.21	32°07'37.2305"N	103°36'5.1724"W	1.25	0.43	-1.17	
16267.00	90.110	0.250	10411.00	6375.65	6370.12	-876.31	767906.16	410805.21	32°07'38.1607"N	103°36'5.1642"W	0.46	-0.13	0.45	
16362.00	90.200	0.610	10410.75	6470.64	6465.12	-875.60	767906.87	410900.20	32°07'39.1006"N	103°36'5.1484"W	0.39	0.09	0.38	
16456.00	90.790	0.390	10409.93	6564.62	6559.11	-874.78	767907.69	410994.19	32°07'40.0306"N	103°36'5.1314"W	0.67	0.63	-0.23	
16550.00	92.970	2.050	10406.85	6658.53	6653.03	-872.78	767909.69	411088.11	32°07'40.9598"N	103°36'5.1007"W	2.91	2.32	1.77	
16644.00	90.850	0.520	10403.72	6752.43	6746.95	-870.67	767911.80	411182.02	32°07'41.8890"N	103°36'5.0688"W	2.78	-2.26	-1.63	
16738.00	90.420	359.560	10402.67	6846.42	6840.94	-870.61	767911.86	411276.01	32°07'42.8191"N	103°36'5.0606"W	1.12	-0.46	-1.02	
16832.00	89.000	359.250	10403.15	6940.42	6934.93	-871.58	767910.89	411370.00	32°07'43.7492"N	103°36'5.0646"W	1.55	-1.51	-0.33	
16927.00	90.970	359.300	10403.18	7035.41	7029.92	-872.78	767909.69	411464.98	32°07'44.6892"N	103°36'5.0710"W	2.07	2.07	0.05	
17020.00	89.800	359.220	10402.55	7128.40	7122.91	-873.98	767908.48	411557.97	32°07'45.6094"N	103°36'5.0777"W	1.26	-1.26	-0.09	
17115.00	89.800	358.450	10402.88	7223.39	7217.89	-875.92	767906.55	411652.94	32°07'46.5493"N	103°36'5.0926"W	0.81	0.00	-0.81	
17209.00	90.260	359.430	10402.83	7317.38	7311.87	-877.66	767904.81	411746.92	32°07'47.4794"N	103°36'5.1054"W	1.15	0.49	1.04	
17303.00	91.530	0.080	10401.36	7411.37	7405.85	-878.06	767904.41	411840.91	32°07'48.4094"N	103°36'5.1027"W	1.52	1.35	0.69	
17398.00	90.420	359.560	10399.75	7506.35	7500.84	-878.36	767904.11	411935.89	32°07'49.3493"N	103°36'5.0986"W	1.29	-1.17	-0.55	
17492.00	90.110	359.810	10399.31	7600.35	7594.84	-878.87	767903.60	412029.88	32°07'50.2795"N	103°36'5.0972"W	0.42	-0.33	0.27	
17587.00	89.980	359.270	10399.24	7695.35	7689.83	-879.64	767902.83	412124.87	32°07'51.2195"N	103°36'5.0986"W	0.58	-0.14	-0.57	
17681.00	90.140	359.380	10399.14	7789.35	7783.83	-880.74	767901.73	412218.86	32°07'52.1497"N	103°36'5.1040"W	0.21	0.17	0.12	
17775.00	89.710	359.570	10399.26	7883.35	7877.82	-881.60	767900.87	412312.86	32°07'53.0798"N	103°36'5.1066"W	0.50	-0.46	0.20	
17869.00	90.050	359.500	10399.46	7977.35	7971.82	-882.37	767900.10	412406.85	32°07'54.0100"N	103°36'5.1081"W	0.37	0.36	-0.07	
17963.00	90.020	359.460	10399.40	8071.35	8065.81	-883.22	767899.25	412500.84	32°07'54.9401"N	103°36'5.1106"W	0.05	-0.03	-0.04	
18057.00	89.800	359.460	10399.55	8165.35	8159.81	-884.11	767898.36	412594.84	32°07'55.8703"N	103°36'5.1134"W	0.23	-0.23	0.00	
18151.00	90.350	358.950	10399.43	8259.35	8253.80	-885.41	767897.06	412688.82	32°07'56.8004"N	103°36'5.1212"W	0.80	0.59	-0.54	
18245.00	89.980	359.890	10399.16	8353.34	8347.79	-886.36	767896.11	412782.81	32°07'57.7305"N	103°36'5.1248"W	1.07	-0.39	1.00	
18339.00	90.570	0.350	10398.71	8447.34	8441.79	-886.16	767896.31	412876.81	32°07'58.6606"N	103°36'5.1151"W	0.80	0.63	0.49	
18433.00	90.420	359.810	10397.89	8541.33	8535.79	-886.03	767896.44	412970.80	32°07'59.5907"N	103°36'5.1061"W	0.60	-0.16	-0.57	
18528.00	89.920	359.560	10397.61	8636.33	8630.79	-886.56	767895.91	413065.80	32°08'0.5308"N	103°36'5.1047"W	0.59	-0.53	-0.26	
18622.00	88.940	0.050	10398.55	8730.32	8724.78	-886.88	767895.59	413159.79	32°08'1.4609"N	103°36'5.1010"W	1.17	-1.04	0.52	
18718.00	91.280	359.330	10398.36	8826.32	8820.77	-887.40	767895.07	413255.77	32°08'2.4107"N	103°36'5.0995"W	2.55	2.44	-0.75	
18813.00	90.880	358.140	10396.57	8921.29	8915.73	-889.49	767892.98	413350.73	32°08'3.3505"N	103°36'5.1163"W	1.32	-0.42	-1.25	
18907.00	91.530	359.540	10394.59	9015.25	9009.69	-891.39	767891.08	413444.68	32°08'4.2803"N	103°36'5.1310"W	1.64	0.69	1.49	



Actual Wellpath Report

Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Well	Vaca Draw 20-17 Federal 30H
Field	WC-025 G-06 S253329D; Upr Bone Spring - Lea County, NM (NAD-83)	API	30-025-46114-00
Facility	Vaca Draw 20-17 Federal Pad	Wellbore	Vaca Draw 20-17 Federal 30H AWB
Slot	Vaca Draw 20-17 Federal 30H		

WELLPATH DATA (223 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
19002.00	90.480	359.770	10392.93	9110.24	9104.67	-891.97	767890.50	413539.66	32°08'5.2202"N	103°36'5.1302"W	1.13	-1.11	0.24	
19096.00	90.350	359.680	10392.25	9204.24	9198.66	-892.42	767890.05	413633.65	32°08'6.1503"N	103°36'5.1280"W	0.17	-0.14	-0.10	
19190.00	90.390	359.160	10391.64	9298.23	9292.66	-893.37	767889.10	413727.64	32°08'7.0805"N	103°36'5.1316"W	0.55	0.04	-0.55	
19283.00	90.880	359.840	10390.61	9391.23	9385.65	-894.18	767888.29	413820.63	32°08'8.0007"N	103°36'5.1337"W	0.90	0.53	0.73	
19377.00	88.940	359.040	10390.76	9485.22	9479.64	-895.10	767887.37	413914.62	32°08'8.9308"N	103°36'5.1370"W	2.23	-2.06	-0.85	
19471.00	89.800	359.940	10391.79	9579.21	9573.63	-895.94	767886.53	414008.60	32°08'9.8609"N	103°36'5.1393"W	1.32	0.91	0.96	
19565.00	90.750	358.400	10391.34	9673.20	9667.61	-897.30	767885.17	414102.59	32°08'10.7909"N	103°36'5.1477"W	1.92	1.01	-1.64	
19659.00	91.000	0.090	10389.90	9767.19	9761.59	-898.54	767883.93	414196.56	32°08'11.7209"N	103°36'5.1547"W	1.82	0.27	1.80	
19753.00	89.650	359.880	10389.37	9861.18	9855.58	-898.56	767883.91	414290.55	32°08'12.6510"N	103°36'5.1475"W	1.45	-1.44	-0.22	
19848.00	90.850	359.550	10388.96	9956.18	9950.58	-899.03	767883.44	414385.55	32°08'13.5911"N	103°36'5.1455"W	1.31	1.26	-0.35	
19942.00	91.830	359.820	10386.76	10050.15	10044.55	-899.55	767882.92	414479.51	32°08'14.5209"N	103°36'5.1441"W	1.08	1.04	0.29	
19995.00	91.370	0.400	10385.28	10103.13	10097.53	-899.45	767883.02	414532.49	32°08'15.0452"N	103°36'5.1387"W	1.40	-0.87	1.09	Last BH MWD Survey: 19995.00ft MD (125' FNL & 437' FWL)
20020.00†	91.370	0.400	10384.68	10128.12	10122.52	-899.27	767883.20	414557.48	32°08'15.2925"N	103°36'5.1347"W	0.00	0.00	0.00	Projection to TD: 20020.00ft (100' FNL & 437' FWL)

HOLE & CASING SECTIONS - Ref Wellbore: Vaca Draw 20-17 Federal 30H AWB Ref Wellpath: Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing	25.00	4806.00	4781.00	25.00	4804.98	0.00	0.00	-22.88	29.67
7in Casing	25.00	10553.00	10528.00	25.00	10303.75	0.00	0.00	668.53	-830.87



Actual Wellpath Report

Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Well	Vaca Draw 20-17 Federal 30H
Field	WC-025 G-06 S253329D; Upr Bone Spring - Lea County, NM (NAD-83)	API	30-025-46114-00
Facility	Vaca Draw 20-17 Federal Pad	Wellbore	Vaca Draw 20-17 Federal 30H AWB
Slot	Vaca Draw 20-17 Federal 30H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
FTP/LP - Vaca Draw 20-17 Federal 30H Rev. 2	10382.00	-5.56	-830.62	767951.85	404429.74	32°06'35.0697"N	103°36'5.1364"W	point
LTP/PBHL - Vaca Draw 20-17 Federal 30H Rev. 2	10399.68	10122.92	-896.43	767886.04	414557.88	32°08'15.2962"N	103°36'5.1016"W	point

WELLPATH COMPOSITION - Ref Wellbore: Vaca Draw 20-17 Federal 30H AWB Ref Wellpath: Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	1010.00	OWSG MWD rev2+IFR1+MS	17-1/2" TrueShot MWD Surveys 183'-1010'	Vaca Draw 20-17 Federal 30H AWB	26/Mar/2021
1010.00	4745.00	OWSG MWD rev2+IFR1+MS	12-1/4" TrueShot MWD Surveys 1137'-4745'	Vaca Draw 20-17 Federal 30H AWB	03/Apr/2021
4745.00	9800.00	OWSG MWD rev2+IFR1+MS	8-3/4" TrueShot MWD Surveys 4832'-9800'	Vaca Draw 20-17 Federal 30H AWB	16/Apr/2021
9800.00	10616.00	OWSG MWD rev2+IFR1+MS	8-3/4" BH MWD Surveys 9861'-10616'	Vaca Draw 20-17 Federal 30H AWB	19/Apr/2021
10616.00	20020.00	OWSG MWD rev2+IFR1+MS	6" BH Lucida Enhanced MWD Surveys 10715'-19995'	Vaca Draw 20-17 Federal 30H AWB	25/May/2021



Actual Wellpath Report

Vaca Draw 20-17 Federal 30H_awp 183'-19995' Proj: 20020'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Well	Vaca Draw 20-17 Federal 30H
Field	WC-025 G-06 S253329D; Upr Bone Spring - Lea County, NM (NAD-83)	API	30-025-46114-00
Facility	Vaca Draw 20-17 Federal Pad	Wellbore	Vaca Draw 20-17 Federal 30H AWB
Slot	Vaca Draw 20-17 Federal 30H		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
183.00	0.200	159.690	183.00	17-1/2" TrueShot MWD Surveys 183'-1010'
1137.00	0.080	326.030	1137.00	12-1/4" TrueShot MWD Surveys 1137'-4745'
4832.00	1.890	211.680	4830.97	8-3/4" TrueShot MWD Surveys 4832'-9800'
9861.00	8.620	293.650	9788.29	8-3/4" BH MWD Surveys 9861'-10616'
10715.00	78.570	358.340	10355.47	6" BH Lucida Enhanced MWD Surveys 10715'-19995'
19995.00	91.370	0.400	10385.28	Last BH MWD Survey: 19995.00ft MD (125' FNL & 437' FWL)
20020.00	91.370	0.400	10384.68	Projection to TD: 20020.00ft (100' FNL & 437' FWL)

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWSW / 331 FSL / 1271 FWL / TWSP: 25S / RANGE: 33E / SECTION: 20 / LAT: 32.109741 / LONG: -103.598744 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 331 FSL / 1271 FWL / TWSP: 25S / RANGE: 33E / SECTION: 20 / LAT: 32.1097417 / LONG: -103.5987444 (TVD: 9032 feet, MD: 9032 feet)

BHL: NWNW / 100 FNL / 1211 FWL / TWSP: 25S / RANGE: 33E / SECTION: 17 / LAT: 32.137581 / LONG: -103.598927 (TVD: 9940 feet, MD: 19865 feet)

CONFIDENTIAL

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 April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								1. WELL API NO. 30-025-46114		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name Vaca Draw 20-17 Federal		
								6. Well Number: 30H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator Cimarex Energy Company						9. OGRID 215099				
10. Address of Operator 600 N. Marienfeld St., Suite 600 Midland, TX 79701						11. Pool name or Wildcat WC-025 G-06 S253329D;UPR Bone Spring 97994				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	M	20	25S	33E		331	South	1269	West	Lea
BH:	D	17	25S	33E		100	North	436	West	Lea
13. Date Spudded 03/28/21	14. Date T.D. Reached 06/10/21		15. Date Rig Released 06/12/21			16. Date Completed (Ready to Produce) 2/09/22		17. Elevations (DF and RKB, RT, GR, etc.) 3420		
18. Total Measured Depth of Well 20,020			19. Plug Back Measured Depth 20,011			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 10,700 - 19,986										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13-3/8		48#		1061		17-1/2		1033 sx		
9-5/8		40#		4812		12-1/4		1596sx		
7		29#		10,488		8-3/4		935 sx		
4-1/2		13.5#		20,020		6		684 sx		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD		SIZE		DEPTH SET
								3-1/2		8782
26. Perforation record (interval, size, and number) 10,700 - 19,986 999 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						10,700 - 19,986		14,668,381 gals Slick water		
								19,878,312# 100 Mesh sand		
28. PRODUCTION										
Date First Production 2/09/22		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Gas Lift				Well Status (<i>Prod. or Shut-in</i>) Producing				
Date of Test 03/08/2022	Hours Tested 24hrs	Choke Size 32	Prod'n For Test Period	Oil - Bbl 855	Gas - MCF 1206	Water - Bbl. 4210	Gas - Oil Ratio 1410			
Flow Tubing Press. 573	Casing Pressure 222	Calculated 24-Hour Rate	Oil - Bbl. 855	Gas - MCF 1206	Water - Bbl. 4210	Oil Gravity - API - (<i>Corr.</i>) 44.5				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) Sold							30. Test Witnessed By Josh Jones			
31. List Attachments C-105, C-102, C-104, Additional points required, Survey										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:			
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____ Longitude _____ NAD83										
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 Kanicia Schlichting			Title Regulatory Analyst			Date 05/13/22	
E-mail Address kanicia.schlichting@coterra.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. Rustler 1001	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt 1341	T. Bell Canyon 4969	T. Kirtland	T. Penn. "B"
B. Salt 4695	T. Cherry Canyon 6048	T. Fruitland	T. Penn. "C"
T. Yates	T. Brushy Canyon 7525	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. 1st Bone Spring Sand 10,006	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. 2nd Bone Spring Sand 10,557	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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

ACKNOWLEDGMENTS

Action 106801

ACKNOWLEDGMENTS

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 106801
	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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 106801

CONDITIONS

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 106801
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	8/5/2025