

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

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 12/15/21
⁴ API Number 30 - 025-46121	⁵ Pool Name WC-025 G-09 S253309P;UPR Wolfcamp	⁶ Pool Code 98180
⁷ Property Code 319775	⁸ Property Name Vaca Draw 20-17 Federal	⁹ Well Number 59H

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
P	20	25S	33E		390	South	880	East	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
A	17	25S	33E		100	North	354	East	Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 12/15/21	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 04/13/21	²² Ready Date 12/15/21	²³ TD 22,669MD/ 12,641TVD	²⁴ PBTD 22,643	²⁵ Perforations 12,879 - 22,618	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4	10-3/4	1035	1185		
9-7/8	7-5/8	12,818	1060		
6-3/4	5-1/2 5	11,843 22,657	1579		
	Request tubing extension				

V. Well Test Data

³¹ Date New Oil 12/15/21	³² Gas Delivery Date 12/15/21	³³ Test Date 12/29/21	³⁴ Test Length 24hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 1537
³⁷ Choke Size	³⁸ Oil 2766	³⁹ Water 5712	⁴⁰ Gas 6100		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	
	Approved by:	
	Printed name: Kanicia Schlichting	Title: Engineer
	Title: Regulatory Analyst	Approval Date: 04/26/2022
	E-mail Address: kschlichting@cimarex.com	File 3160-4 Completion Report within 10 days to NMOCD after BLM approval.
Date: 03/09/22 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 30-025-46121		² Pool Code 98180		³ Pool Name WC-025 G-09 S253309P;UPR Wolfcamp	
⁴ Property Code 319775		⁵ Property Name VACA DRAW 20-17 FEDERAL			⁶ Well Number 59H
⁷ OGRID No. 215099		⁸ Operator Name CIMAREX ENERGY CO.			⁹ Elevation 3398.6'

¹⁰ Surface Location

UL or lot no. P	Section 20	Township 25S	Range 33E	Lot Idn	Feet from the 390	North/South line SOUTH	Feet from the 880	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. A	Section 17	Township 25S	Range 33E	Lot Idn	Feet from the 100	North/South line NORTH	Feet from the 354	East/West line EAST	County LEA
¹² Dedicated Acres 640		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
- = SURFACE HOLE LOCATION
 - ◆ = AS-DRILLED KOP/ FTP/ LTP
 - = AS-DRILLED BOTTOM HOLE LOCATION
 - ▲ = SECTION CORNER LOCATED

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°56'49"W	2644.60'

APPROXIMATE WELL BORE DISTANCE FROM FTP TO LTP	
Sec. 17	5,133.08'
Sec. 20	4,604.23'
TOTAL	9,737.31'

NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°06'35.63" (32.109897°) LONGITUDE = 103°35'19.00" (103.588611°)	
NAD 27 (SURFACE HOLE LOCATION) LATITUDE = 32°06'35.18" (32.109773°) LONGITUDE = 103°35'17.30" (103.588139°)	
STATE PLANE NAD 83 (N.M. EAST) N: 404513.62' E: 771919.71'	
STATE PLANE NAD 27 (N.M. EAST) N: 404455.84' E: 730733.53'	
NAD 83 (AS-DRILLED KOP) LATITUDE = 32°06'33.25" (32.109237°) LONGITUDE = 103°35'14.28" (103.587299°)	
NAD 27 (AS-DRILLED KOP) LATITUDE = 32°06'32.80" (32.109112°) LONGITUDE = 103°35'12.58" (103.586828°)	
STATE PLANE NAD 83 (N.M. EAST) N: 404276.18' E: 772327.35'	
STATE PLANE NAD 27 (N.M. EAST) N: 404218.41' E: 731141.16'	
NAD 83 (AS-DRILLED FTP) LATITUDE = 32°06'38.57" (32.110714°) LONGITUDE = 103°35'12.97" (103.586936°)	
NAD 27 (AS-DRILLED FTP) LATITUDE = 32°06'38.12" (32.110589°) LONGITUDE = 103°35'11.27" (103.586464°)	
STATE PLANE NAD 83 (N.M. EAST) N: 404814.26' E: 772436.13'	
STATE PLANE NAD 27 (N.M. EAST) N: 404756.48' E: 731249.95'	
NAD 83 (AS-DRILLED LTP) LATITUDE = 32°08'14.77" (32.137436°) LONGITUDE = 103°35'12.82" (103.586895°)	
NAD 27 (AS-DRILLED LTP) LATITUDE = 32°08'14.32" (32.137312°) LONGITUDE = 103°35'11.12" (103.586422°)	
STATE PLANE NAD 83 (N.M. EAST) N: 414535.66' E: 772381.56'	
STATE PLANE NAD 27 (N.M. EAST) N: 414477.63' E: 731195.85'	
NAD 83 (AS-DRILLED BHL) LATITUDE = 32°08'15.28" (32.137577°) LONGITUDE = 103°35'12.83" (103.586896°)	
NAD 27 (AS-DRILLED BHL) LATITUDE = 32°08'14.83" (32.137452°) LONGITUDE = 103°35'11.12" (103.586423°)	
STATE PLANE NAD 83 (N.M. EAST) N: 414586.65' E: 772380.88'	
STATE PLANE NAD 27 (N.M. EAST) N: 414528.63' E: 731195.16'	

- NOTE:
- Distances referenced on plat to section lines are perpendicular.
 - Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
 - As-Drilled Surface Hole Location not field verified.
 - Well Bore information supplied by Cimarex Energy Co.

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.

K. Schlichting 3/5/21
Signature Date

Kanicia Schlichting
Printed Name

kanicia.schlichting@coterra.com
E-mail Address

As-Drilled BHL
10,073' NORTH OF WELL
503' EAST OF WELL
M.D. 22,669'
Inclination 90.2

As-Drilled LTP
10,022' NORTH OF WELL
504' EAST OF WELL
M.D. 22,618'
Inclination 90.3

Proposed Well Bore

Detail "A"
No Scale

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.

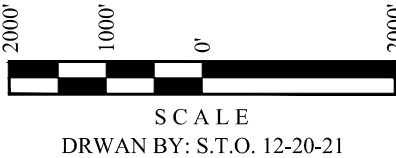
July 27, 2018

Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE
NEW MEXICO
23782
12-20-21
PROFESSIONAL SURVEYOR

Certificate Number:





Final Surveys - Cimarex Vaca Draw 20-17 Federal #59H MWD 0ft-22669ft (Surcon Corrected) Survey Geodetic Report (Def Survey)



Report Date:	June 17, 2021 - 10:44 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex Energy	Vertical Section Azimuth:	359.633 ° (Grid North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Vaca Draw 20-17 Federal #59H / New Slot	TVD Reference Datum:	RKB
Well:	Vaca Draw 20-17 Federal #59H	TVD Reference Elevation:	3420.600 ft above MSL
Borehole:	Vaca Draw 20-17 Federal #59H	Seabed / Ground Elevation:	3398.600 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	6.415 °
Survey Name:	Final Surveys - Cimarex Vaca Draw 20-17 Federal #59H MWD 0ft-22669ft (Surcon Corrected)	Total Gravity Field Strength:	998.4331mgN (9.80665 Based)
Survey Date:	April 12, 2021	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	405.230 ° / 11098.294 ft / 6.906 / 0.877	Total Magnetic Field Strength:	47562.158 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.665 °
Location Lat / Long:	N 32° 6' 35.63073", W 103° 35' 18.99834"	Declination Date:	June 17, 2021
Location Grid N/E Y/X:	N 404513.620 NUS, E 771919.710 RUS	Magnetic Declination Model:	HDGM 2020
CRS Grid Convergence Angle:	0.3959 °	North Reference:	Grid North
Grid Scale Factor:	0.99996999	Grid Convergence Used:	0.3959 °
Version / Patch:	2.10.825.0	Total Corr Mag North->Grid North:	6.0188 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure Azimuth (°)	Closure (ft)
SHL [390° FSL, 880° FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	404513.62	771919.71	N 32° 6' 35.63 W 103 35 19.00		0.00	0.00
	182.00	0.67	299.85	182.00	0.54	0.53	-0.92	0.37	404514.15	771918.79	N 32° 6' 35.64 W 103 35 19.01		299.85	1.06
	312.00	0.79	292.77	311.99	1.27	1.25	-2.41	0.12	404514.87	771917.30	N 32° 6' 35.64 W 103 35 19.03		297.52	2.72
	403.00	0.91	301.10	402.98	1.89	1.87	-3.61	0.19	404515.49	771916.10	N 32° 6' 35.65 W 103 35 19.04		297.42	4.06
	494.00	1.07	300.71	493.96	2.71	2.68	-4.96	0.18	404516.30	771914.76	N 32° 6' 35.66 W 103 35 19.06		298.39	5.63
	584.00	1.35	251.36	583.94	2.81	2.77	-6.68	1.16	404516.39	771913.03	N 32° 6' 35.66 W 103 35 19.08		292.50	7.23
	675.00	1.62	46.29	674.93	3.36	3.31	-6.77	3.19	404516.93	771912.94	N 32° 6' 35.66 W 103 35 19.08		296.09	7.54
	766.00	1.72	286.60	765.91	4.64	4.59	-7.15	3.17	404518.21	771912.56	N 32° 6' 35.68 W 103 35 19.08		302.73	8.50
	856.00	1.53	280.19	855.88	5.25	5.19	-9.62	0.29	404518.81	771910.09	N 32° 6' 35.68 W 103 35 19.11		298.35	10.94
	946.00	1.19	265.98	945.85	5.41	5.34	-11.74	0.53	404518.96	771907.97	N 32° 6' 35.68 W 103 35 19.13		294.46	12.90
	990.00	1.17	260.37	989.84	5.31	5.23	-12.64	0.27	404518.85	771907.07	N 32° 6' 35.68 W 103 35 19.14		292.49	13.68
	1135.00	1.40	272.12	1134.81	5.15	5.05	-15.87	0.24	404518.67	771903.84	N 32° 6' 35.68 W 103 35 19.18		287.66	16.65
	1229.00	1.24	270.64	1228.78	5.22	5.10	-18.03	0.17	404518.72	771901.68	N 32° 6' 35.68 W 103 35 19.21		285.80	18.74
	1322.00	1.98	105.27	1321.77	4.80	4.69	-17.49	3.44	404518.31	771902.22	N 32° 6' 35.68 W 103 35 19.20		285.02	18.11
	1416.00	3.06	105.74	1415.67	3.67	3.58	-13.51	1.15	404517.20	771906.20	N 32° 6' 35.67 W 103 35 19.16		284.86	13.97
	1510.00	3.11	105.05	1509.54	2.30	2.24	-8.63	0.07	404515.86	771911.08	N 32° 6' 35.65 W 103 35 19.10		284.56	8.92
	1603.00	3.10	106.28	1602.40	0.91	0.88	-3.78	0.07	404514.50	771915.93	N 32° 6' 35.64 W 103 35 19.04		283.12	3.88
	1697.00	3.05	107.37	1696.27	-0.58	-0.58	1.05	0.08	404513.04	771920.76	N 32° 6' 35.62 W 103 35 18.99		118.90	1.20
	1790.00	3.12	109.08	1789.13	-2.18	-2.14	5.80	0.12	404511.48	771925.51	N 32° 6' 35.61 W 103 35 18.93		110.29	6.18
	1977.00	3.10	104.18	1975.86	-5.15	-5.05	15.51	0.14	404508.57	771935.22	N 32° 6' 35.58 W 103 35 18.82		108.02	16.31
	2071.00	3.15	101.65	2069.72	-6.32	-6.19	20.51	0.16	404507.43	771940.22	N 32° 6' 35.57 W 103 35 18.76		106.80	21.42
	2166.00	3.22	102.26	2164.57	-7.45	-7.28	25.67	0.08	404506.34	771945.38	N 32° 6' 35.56 W 103 35 18.70		105.84	26.68
	2259.00	3.24	104.56	2257.42	-8.70	-8.50	30.77	0.14	404505.12	771950.47	N 32° 6' 35.54 W 103 35 18.64		105.44	31.92
	2353.00	3.29	102.40	2351.27	-9.98	-9.75	35.97	0.14	404503.87	771955.68	N 32° 6' 35.53 W 103 35 18.58		105.16	37.27
	2447.00	3.53	99.83	2445.10	-11.08	-10.82	41.46	0.30	404502.80	771961.17	N 32° 6' 35.52 W 103 35 18.52		104.63	42.85
	2540.00	5.29	100.36	2537.82	-12.39	-12.08	48.50	1.89	404501.54	771968.20	N 32° 6' 35.51 W 103 35 18.44		103.99	49.98
	2634.00	5.61	99.19	2631.40	-13.96	-13.59	57.29	0.36	404500.03	771977.00	N 32° 6' 35.49 W 103 35 18.33		103.35	58.88
	2727.00	7.00	107.43	2723.84	-16.45	-16.02	67.19	1.78	404497.60	771986.90	N 32° 6' 35.47 W 103 35 18.22		103.41	69.07
	2821.00	7.17	107.05	2817.12	-19.95	-19.45	78.26	0.19	404494.17	771997.97	N 32° 6' 35.43 W 103 35 18.09		103.96	80.64
	2915.00	7.36	103.10	2910.36	-23.11	-22.54	89.73	0.57	404491.08	772009.44	N 32° 6' 35.40 W 103 35 17.96		104.10	92.52
	3008.00	7.65	100.36	3002.57	-25.65	-25.00	101.63	0.50	404488.62	772021.33	N 32° 6' 35.38 W 103 35 17.82		103.82	104.66
	3101.00	8.01	97.58	3094.70	-27.70	-26.97	114.14	0.56	404486.65	772033.84	N 32° 6' 35.36 W 103 35 17.67		103.29	117.28
	3195.00	8.18	104.26	3187.77	-30.29	-29.48	127.11	1.02	404484.14	772046.82	N 32° 6' 35.33 W 103 35 17.52		103.06	130.49
	3288.00	8.47	108.30	3279.79	-34.16	-33.26	140.03	0.70	404480.36	772059.73	N 32° 6' 35.29 W 103 35 17.37		103.36	143.92
	3382.00	8.60	106.47	3372.75	-38.41	-37.43	153.34	0.32	404476.20	772073.04	N 32° 6' 35.25 W 103 35 17.22		103.72	157.84
	3476.00	8.25	108.95	3465.73	-42.67	-41.61	166.46	0.54	404472.01	772086.16	N 32° 6' 35.21 W 103 35 17.07		104.03	171.58
	3569.00	7.32	118.28	3557.88	-47.72	-46.58	177.99	1.68	404467.04	772097.69	N 32° 6' 35.16 W 103 35 16.93		104.67	183.98
	3663.00	7.09	119.18	3651.14	-53.45	-52.25	188.33	0.27	404461.37	772108.03	N 32° 6' 35.10 W 103 35 16.81		105.51	195.44
	3756.00	7.03	117.94	3743.43	-58.98	-57.71	198.36	0.18	404455.91	772118.07	N 32° 6' 35.05 W 103 35 16.70		106.22	206.59
	3850.00	6.80	119.69	3836.75	-64.50	-63.16	208.28	0.33	404450.46	772127.98	N 32° 6' 34.99 W 103 35 16.58		106.87	217.65
	3943.00	6.55	118.51	3929.12	-69.82	-68.42	217.72	0.31	404445.20	772137.43	N 32° 6' 34.94 W 103 35 16.47		107.45	228.22
	4036.00	6.75	113.60	4021.49	-74.60	-73.14	227.39	0.65	404440.48	772147.10	N 32° 6' 34.89 W 103 35 16.36		107.83	238.87
	4130.00	6.38	116.56	4114.87	-79.21	-77.69	237.13	0.53	404435.93	772156.83	N 32° 6' 34.85 W 103 35 16.25		108.14	249.53
	4223.00	6.07	124.29	4207.33	-84.34	-82.77	245.81	0.96	404430.85	772165.51	N 32° 6' 34.79 W 103 35 16.15		108.61	259.37
	4317.00	6.13	119.58	4300.80	-89.68	-88.05	254.28	0.54	404425.57	772173.98	N 32° 6' 34.74 W 103 35 16.05		109.10	269.10
	4410.00	6.33	120.94	4393.25	-94.82	-93.14	263.00	0.27	404420.49	772182.70	N 32° 6' 34.69 W 103 35 15.95		109.50	279.00
	4504.00	6.12	125.40	4486.69	-100.44	-98.70	271.53	0.56	404414.92	772191.23	N 32° 6' 34.64 W 103 35 15.85		109.98	288.91
	4598.00	6.08	128.49	4580.16	-106.49	-104.70	279.51	0.35	404408.92	772199.21	N 32° 6' 34.58 W 103 35 15.76		110.54	298.48
	4691.00	5.14	123.49	4672.72	-111.90	-110.07	286.84	1.14	404403.56	772206.54	N 32° 6' 34.52 W 103 35 15.67		110.99	307.23
	4785.00	4.58	117.48	4676.38	-116.00	-114.12	293.68	0.80	404399.50	772213.38	N 32° 6' 34.48 W 103 35 15.59		111.24	315.07
	4878.00	5.70	101.23	4859.01	-118.66	-116.74	301.50	1.96	404396.89	772221.20	N 32° 6' 34.45 W 103 35 15.50		111.17	323.31
	5065.00	5.79	99.01	5045.07	-122.07	-120.02	319.93	0.13	404393.60	772239.63	N 32° 6' 34.42 W 103 35 15.29		110.56	341.70
	5159.00	5.78	99.69	5138.59	-123.67	-121.56	329.28	0.07	404392.06	772248.98	N 32° 6' 34.41 W 103 35 15.18		110.26	351.00
	5252.00	5.59	82.28	5231.14	-123.91	-121.74	338.38	1.86	404391.88	772258.08	N 32° 6' 34.40 W 103 35 15.07		109.79	359.62
	5346.00	5.31	97.06	5324.72	-123.88	-121.66	347.24	1.52	404391.96	772266.94	N 32° 6' 34.40 W 103 35 14.97		109.31	367.93
	5533.00	5.20	98.04	5510.93	-126.24	-123.91	364.21	0.08	404389.72	772283.91	N 32° 6' 34.38 W 103 35 14.77		108.79	384.72
	5626.00	4.82	98.71	5603.58	-127.47	-125.09	372.25	0.41	404388.53	772291.95	N 32° 6' 34.37 W 103 35 14.68		108.57	392.71
	5720.00	4.70	97.78	5697.25	-128.64	-126.21	379.97	0.15	404387.41	772299.67	N 32° 6' 34.36 W 103 35 14.59		108.37	400.38
	5813.00	4.52	98.66	5789.95	-129.76	-127.28	387.37	0.21	404386.35	772307.06	N 32° 6' 34.34 W 103 35 14.51		108.19	407.74
	5907.00	4.45	97.22	5883.66	-130.82	-128.29	394.65	0.14	404385.33	772314.34	N 32° 6' 34.33 W 103 35 14.42		108.01	414.98
	6000.00	4.11	98.47	5976.40	-131.81	-129.24	401.52	0.38	404384.39	772321.22	N 32° 6' 34.32 W 103 35 14.34		107.84	421.81
	6094.00	4.31	95.98	6070.15	-132.71	-130.10	408.37	0.29	404383.52	772328.06	N 32° 6' 34.32 W 103 35 14.26		107.67	428.59
	6187.00	4.29	71.51	6162.90	-132.02	-129.36	415.14	1.96	404384.26	772334.84	N 32° 6' 34.32 W 103 35 14.18		107.31	434.83
	6280.00	4.01	91.40	6255.66	-131.04	-128.34	421.69	1.57	404385.29	772341.39	N 32° 6' 34.33 W 103 35 14.11		106.93	440.79
	6374.00	3.83	90.19	6349.44	-131.17	-128.43	428.12	0.21	404385.19	772347.81	N 32° 6' 34.33 W 103 35 14.03		106.70	446.97
	6467.00	3.68	90.62	6442.24	-131.25	-128.47	434.							

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DL (°100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')	Closure Azimuth (°)	Closure (ft)
	8992.00	1.38	223.64	8964.55	-180.48	-177.19	512.93	0.35	404336.43	772432.62	N 32° 6' 33.84" W 103° 35' 13.05"		109.06	542.67
	9086.00	1.48	239.30	9058.52	-181.90	-178.63	511.10	0.43	404334.99	772430.80	N 32° 6' 33.83" W 103° 35' 13.07"		109.26	541.42
	9179.00	1.43	239.98	9151.49	-182.58	-179.91	508.91	0.72	404334.33	772428.61	N 32° 6' 33.82" W 103° 35' 13.10"		109.41	539.58
	9273.00	1.62	270.83	9245.45	-182.63	-179.39	506.41	0.24	404334.23	772426.11	N 32° 6' 33.82" W 103° 35' 13.13"		109.51	537.25
	9367.00	1.92	268.53	9339.41	-182.63	-179.41	503.51	0.33	404334.21	772423.20	N 32° 6' 33.82" W 103° 35' 13.16"		109.61	534.52
	9461.00	2.83	276.72	9433.33	-182.38	-179.18	499.63	1.03	404334.44	772419.33	N 32° 6' 33.82" W 103° 35' 13.20"		109.73	530.79
	9554.00	3.04	273.80	9526.21	-181.92	-178.75	494.89	0.28	404334.88	772414.59	N 32° 6' 33.83" W 103° 35' 13.26"		109.86	526.18
	9647.00	1.84	268.44	9619.12	-181.77	-178.63	490.94	1.31	404335.00	772410.63	N 32° 6' 33.83" W 103° 35' 13.31"		109.99	522.42
	9741.00	2.05	273.36	9713.07	-181.69	-178.57	487.75	0.29	404335.06	772407.45	N 32° 6' 33.83" W 103° 35' 13.34"		110.11	519.41
	9835.00	2.18	244.74	9807.00	-182.33	-179.23	484.46	1.12	404334.39	772404.15	N 32° 6' 33.82" W 103° 35' 13.38"		110.30	516.55
	10022.00	1.95	245.00	9993.88	-185.16	-182.10	478.36	0.12	404331.53	772398.05	N 32° 6' 33.80" W 103° 35' 13.45"		110.84	511.84
	10115.00	1.36	223.90	10086.84	-186.61	-183.56	476.16	0.90	404330.07	772395.85	N 32° 6' 33.78" W 103° 35' 13.48"		111.08	510.31
	10209.00	1.04	220.11	10180.82	-188.05	-185.02	474.83	0.35	404328.61	772394.53	N 32° 6' 33.77" W 103° 35' 13.49"		111.29	509.60
	10302.00	1.15	216.85	10273.81	-189.44	-186.41	473.73	0.14	404327.22	772393.42	N 32° 6' 33.75" W 103° 35' 13.51"		111.48	509.08
	10399.00	1.18	198.16	10370.79	-191.16	-188.14	472.83	0.39	404325.49	772392.53	N 32° 6' 33.74" W 103° 35' 13.52"		111.70	508.89
	10495.00	0.99	170.81	10466.77	-192.92	-189.89	472.66	0.57	404323.73	772392.35	N 32° 6' 33.72" W 103° 35' 13.52"		111.89	509.38
	10586.00	1.08	175.34	10557.76	-194.55	-191.52	472.85	0.13	404322.10	772392.55	N 32° 6' 33.70" W 103° 35' 13.52"		112.05	510.17
	10679.00	1.02	159.58	10650.74	-196.20	-193.17	473.21	0.32	404320.45	772392.91	N 32° 6' 33.69" W 103° 35' 13.51"		112.21	511.12
	10773.00	1.32	182.29	10744.72	-198.07	-195.04	473.46	0.58	404318.59	772393.16	N 32° 6' 33.67" W 103° 35' 13.51"		112.39	512.06
	10866.00	1.43	178.83	10837.69	-200.30	-197.27	473.44	0.15	404316.36	772393.14	N 32° 6' 33.65" W 103° 35' 13.51"		112.62	512.90
	10960.00	2.00	225.46	10931.66	-202.61	-199.59	472.30	0.55	404314.03	772391.99	N 32° 6' 33.62" W 103° 35' 13.52"		112.91	512.74
	11054.00	2.45	240.23	11025.59	-204.74	-201.74	469.39	1.77	404311.88	772389.08	N 32° 6' 33.60" W 103° 35' 13.56"		113.26	510.90
	11147.00	2.77	232.53	11118.49	-207.08	-203.10	465.88	0.51	404309.08	772385.57	N 32° 6' 33.54" W 103° 35' 13.60"		113.66	508.62
	11241.00	3.13	231.32	11212.37	-210.04	-207.08	462.07	0.39	404306.55	772381.77	N 32° 6' 33.55" W 103° 35' 13.65"		114.14	506.35
	11334.00	4.21	238.88	11305.17	-213.36	-210.43	457.17	1.27	404303.19	772378.66	N 32° 6' 33.52" W 103° 35' 13.70"		114.72	503.27
	11428.00	5.24	241.38	11398.85	-217.15	-214.27	450.44	1.12	404299.35	772370.14	N 32° 6' 33.48" W 103° 35' 13.78"		115.44	498.81
	11521.00	5.98	236.13	11491.41	-221.84	-219.01	442.69	0.97	404294.62	772362.39	N 32° 6' 33.43" W 103° 35' 13.87"		116.32	493.90
	11615.00	6.77	246.39	11584.83	-226.73	-223.95	433.55	1.47	404289.67	772353.25	N 32° 6' 33.39" W 103° 35' 13.98"		117.32	487.98
	11708.00	6.65	239.47	11677.19	-231.60	-228.89	423.89	0.88	404284.74	772343.59	N 32° 6' 33.34" W 103° 35' 14.09"		118.37	481.74
	11802.00	6.57	242.77	11770.57	-236.76	-234.11	414.42	0.41	404279.52	772334.12	N 32° 6' 33.29" W 103° 35' 14.20"		119.46	475.97
First SLB Survey	11857.00	6.52	241.13	11825.21	-239.67	-237.06	408.89	0.35	404276.57	772328.58	N 32° 6' 33.26" W 103° 35' 14.26"		120.10	472.64
KOP	11927.13	2.26	287.15	11895.13	-241.16	-238.57	404.08	7.43	404275.05	772323.78	N 32° 6' 33.24" W 103° 35' 14.32"		120.56	469.25
	11950.00	2.15	332.47	11917.99	-240.64	-238.06	403.45	7.43	404275.57	772323.15	N 32° 6' 33.25" W 103° 35' 14.33"		120.54	468.45
	11982.00	4.39	51.74	11949.95	-239.35	-236.77	404.13	14.10	404276.86	772323.83	N 32° 6' 33.26" W 103° 35' 14.32"		120.36	468.39
	12013.00	7.25	58.74	11980.78	-237.62	-235.02	406.74	9.49	404278.61	772326.44	N 32° 6' 33.28" W 103° 35' 14.29"		120.02	469.76
	12048.00	10.15	45.17	12015.38	-234.33	-231.70	410.82	10.10	404281.93	772330.51	N 32° 6' 33.31" W 103° 35' 14.24"		119.42	471.65
	12095.00	15.60	35.35	12061.19	-226.29	-223.62	417.41	12.46	404290.01	772337.11	N 32° 6' 33.39" W 103° 35' 14.16"		118.18	473.54
	12141.00	19.49	32.90	12105.04	-214.84	-212.13	425.16	8.61	404301.50	772344.86	N 32° 6' 33.50" W 103° 35' 14.07"		116.52	475.14
	12188.00	22.15	25.20	12148.98	-200.29	-197.52	433.20	8.11	404316.11	772352.89	N 32° 6' 33.65" W 103° 35' 13.98"		114.51	476.10
	12235.00	25.51	19.65	12191.97	-182.78	-179.96	440.38	8.59	404333.66	772360.07	N 32° 6' 33.82" W 103° 35' 13.89"		112.23	475.73
	12282.00	29.52	14.97	12233.64	-162.37	-159.51	447.64	8.53	404354.12	772367.34	N 32° 6' 34.02" W 103° 35' 13.81"		109.61	475.21
	12328.00	30.48	14.97	12273.49	-140.48	-137.55	454.44	5.61	404356.08	772374.13	N 32° 6' 34.24" W 103° 35' 13.73"		106.84	474.80
	12375.00	33.95	123.07	12313.25	-116.19	-113.24	460.48	7.69	404400.38	772380.18	N 32° 6' 34.48" W 103° 35' 13.65"		103.82	474.20
	12422.00	39.44	12.03	12350.92	-88.82	-85.84	466.57	11.76	404427.79	772386.26	N 32° 6' 34.75" W 103° 35' 13.58"		100.42	474.40
	12469.00	45.40	12.87	12385.60	-57.93	-54.89	473.41	12.74	404458.73	772393.11	N 32° 6' 35.06" W 103° 35' 13.50"		96.61	476.58
	12515.00	51.29	14.06	12416.16	-24.57	-21.49	481.43	12.95	404492.13	772401.12	N 32° 6' 35.39" W 103° 35' 13.40"		92.56	481.91
	12562.00	56.44	12.41	12443.87	12.31	15.45	490.10	11.32	404529.07	772409.79	N 32° 6' 35.75" W 103° 35' 13.30"		88.19	490.34
	12609.00	61.09	9.95	12468.23	51.67	54.86	497.87	10.86	404568.48	772417.56	N 32° 6' 36.14" W 103° 35' 13.21"		83.71	500.88
	12656.00	59.62	8.09	12491.48	91.97	95.20	504.27	4.65	404608.82	772423.97	N 32° 6' 36.54" W 103° 35' 13.13"		79.31	513.18
	12703.00	60.13	5.45	12515.07	132.30	135.57	509.06	4.98	404649.18	772428.76	N 32° 6' 36.94" W 103° 35' 13.07"		75.09	526.80
	12750.00	65.77	2.99	12536.44	174.01	177.29	512.12	12.87	404690.91	772431.81	N 32° 6' 37.35" W 103° 35' 13.03"		70.90	541.94
	12775.00	69.11	1.90	12556.87	197.13	200.42	513.10	17.04	404714.03	772432.80	N 32° 6' 37.58" W 103° 35' 13.02"		68.66	550.86
	12879.00	79.91	1.90	12572.91	297.34	300.65	516.43	9.64	404814.96	772442.93	N 32° 6' 38.57" W 103° 35' 12.97"		59.78	597.57
	12974.00	87.60	4.91	12583.24	391.48	394.84	522.05	8.69	404908.44	772441.74	N 32° 6' 39.50" W 103° 35' 12.90"		52.90	654.55
	13068.00	91.39	3.97	12584.07	485.13	488.53	529.33	4.15	405002.14	772449.02	N 32° 6' 40.43" W 103° 35' 12.81"		47.30	720.31
	13162.00	89.89	359.96	12583.02	579.03	582.45	532.55	4.55	405096.05	772452.24	N 32° 6' 41.36" W 103° 35' 12.76"		42.44	789.21
	13257.00	89.75	0.14	12583.32	674.02	677.45	532.63	0.24	405191.05	772452.32	N 32° 6' 42.30" W 103° 35' 12.75"		38.18	861.76
	13352.00	90.28	359.67	12583.29	769.02	772.45	532.47	0.75	405286.04	772452.17	N 32° 6' 43.24" W 103° 35' 12.75"		34.58	938.19
	13446.00	89.54	357.34	12583.44	863.00	866.41	530.02	2.60	405380.00	772449.11	N 32° 6' 44.17" W 103° 35' 12.77"		31.46	1015.67
	13540.00	88.67	356.39	12584.91	956.87	960.25	524.88	1.37	405473.84	772444.57	N 32° 6' 45.10" W 103° 35' 12.82"		28.66	1094.34
	13635.00	90.27	358.33	12585.79	1051.79	1055.14	520.51	2.65	405568.73	772440.20	N 32° 6' 46.04" W 103° 35' 12.86"		26.26	1176.54
	13729.00	88.95	359.94	12586.12	1145.78	1149.12	519.09	2.21	405662.71	772438.78	N 32° 6' 46.97" W 103° 35' 12.87"		24.31	1260.93
	13823.00	88.15	1.43	12588.80	1239.73	1243.08	520.21	1.80	405730.66	772439.80	N 32° 6' 47.90" W 103° 35' 12.85"		22.71	1347.54
	13917.00	89.82	2.12	12590.47	1333.64	1337.02	523.12	1.92	405850.60	772442.81	N 32° 6' 48.82" W 103° 35' 12.81"		21.37	1435.72
	14012.00	88.46	4.94	12591.90	1428.40	1431.82	528.97	3.30	405945.39	772448.66	N 32° 6' 49.76" W 103° 35' 12.73"		20.28	1526.40
	14106.00	89.75	3.2											

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')	Closure Azimuth (°)	Closure (ft)
	19324.00	90.79	1.69	12659.46	6726.94	6730.17	482.46	2.44	411243.58	772402.15	N 32 7 42.19 W	103 35 12.85	4.10	6747.44
	19419.00	90.31	359.49	12658.55	6821.92	6825.16	483.44	2.37	411338.56	772403.13	N 32 7 43.13 W	103 35 12.83	4.05	6842.26
	19513.00	90.02	359.70	12658.28	6915.92	6919.15	482.77	0.38	411432.55	772402.47	N 32 7 44.06 W	103 35 12.83	3.99	6935.97
	19608.00	89.18	354.91	12658.95	7010.81	7014.02	478.31	5.12	411527.41	772398.00	N 32 7 45.00 W	103 35 12.87	3.90	7030.31
	19703.00	90.07	359.16	12659.57	7105.69	7108.86	473.40	4.57	411622.26	772393.09	N 32 7 45.94 W	103 35 12.92	3.81	7124.61
	19797.00	90.33	359.62	12659.24	7199.68	7202.86	472.40	0.56	411716.25	772392.09	N 32 7 46.87 W	103 35 12.93	3.75	7218.33
	19892.00	89.97	359.35	12658.99	7294.68	7297.85	471.54	0.47	411811.24	772391.24	N 32 7 47.81 W	103 35 12.93	3.70	7313.07
	19986.00	89.28	358.58	12659.61	7388.67	7391.84	469.84	1.10	411905.22	772389.54	N 32 7 48.74 W	103 35 12.94	3.64	7406.75
	20081.00	89.78	358.14	12660.39	7483.65	7486.79	467.12	0.70	412000.17	772386.82	N 32 7 49.68 W	103 35 12.96	3.57	7501.35
	20176.00	89.75	359.10	12660.77	7578.63	7581.76	464.84	1.01	412095.14	772384.53	N 32 7 50.62 W	103 35 12.98	3.51	7596.00
	20271.00	91.19	357.02	12660.00	7673.58	7676.70	461.62	2.66	412190.07	772381.32	N 32 7 51.56 W	103 35 13.01	3.44	7690.56
	20365.00	90.55	357.92	12658.57	7767.50	7770.59	457.47	1.17	412283.97	772377.17	N 32 7 52.49 W	103 35 13.05	3.37	7784.05
	20459.00	90.35	357.97	12657.83	7861.46	7864.53	454.10	0.22	412377.90	772373.80	N 32 7 53.42 W	103 35 13.09	3.30	7877.63
	20553.00	90.52	0.11	12657.12	7955.45	7958.51	452.53	2.28	412471.87	772372.22	N 32 7 54.35 W	103 35 13.10	3.25	7971.36
	20648.00	91.02	1.30	12655.84	8050.42	8053.49	453.70	1.36	412566.85	772373.39	N 32 7 55.29 W	103 35 13.08	3.22	8066.26
	20742.00	90.51	0.09	12654.58	8144.39	8147.47	454.84	1.40	412660.83	772374.53	N 32 7 56.22 W	103 35 13.05	3.20	8160.16
	20837.00	90.59	359.41	12653.67	8239.39	8242.47	454.42	0.72	412755.82	772374.12	N 32 7 57.16 W	103 35 13.05	3.16	8254.99
	20931.00	90.52	359.54	12652.76	8333.38	8336.46	453.56	0.16	412849.81	772373.26	N 32 7 58.09 W	103 35 13.05	3.11	8348.79
	21026.00	90.86	359.82	12651.62	8428.38	8431.45	453.03	0.46	412944.80	772372.72	N 32 7 59.03 W	103 35 13.05	3.08	8443.61
	21121.00	90.11	0.55	12650.81	8523.37	8526.45	453.34	1.10	413039.79	772373.03	N 32 7 59.97 W	103 35 13.04	3.04	8538.49
	21216.00	90.00	0.14	12650.72	8618.36	8621.44	453.91	0.45	413134.79	772373.60	N 32 8 0.91 W	103 35 13.03	3.01	8633.38
	21311.00	90.20	1.13	12650.56	8713.34	8716.44	454.96	1.06	413229.78	772374.66	N 32 8 1.85 W	103 35 13.01	2.99	8728.30
	21405.00	90.10	0.53	12650.31	8807.32	8810.43	456.32	0.65	413323.76	772376.02	N 32 8 2.78 W	103 35 12.98	2.96	8822.24
	21500.00	91.42	4.37	12649.05	8902.18	8905.31	460.38	4.27	413416.65	772380.08	N 32 8 3.72 W	103 35 12.93	2.96	8917.20
	21594.00	90.92	3.43	12647.13	8995.90	8999.07	466.77	1.13	413512.40	772386.47	N 32 8 4.65 W	103 35 12.85	2.97	9011.17
	21689.00	89.88	359.48	12646.47	9090.83	9094.02	469.19	4.30	413607.35	772388.88	N 32 8 5.58 W	103 35 12.81	2.95	9106.11
	21783.00	89.79	359.79	12646.74	9184.83	9188.02	468.59	0.34	413701.34	772388.28	N 32 8 6.51 W	103 35 12.81	2.92	9199.96
	21878.00	91.57	5.61	12645.61	9279.64	9282.86	473.06	6.41	413796.18	772392.75	N 32 8 7.45 W	103 35 12.75	2.92	9294.91
	21973.00	89.77	358.12	12644.50	9374.49	9377.73	476.15	8.11	413891.05	772395.84	N 32 8 8.39 W	103 35 12.71	2.91	9389.81
	22068.00	89.99	359.80	12644.70	9469.48	9472.71	474.42	1.78	413986.03	772394.12	N 32 8 9.33 W	103 35 12.72	2.87	9484.59
	22163.00	90.32	0.94	12644.44	9564.47	9567.71	475.04	1.25	414081.02	772394.73	N 32 8 10.27 W	103 35 12.71	2.84	9579.49
	22257.00	90.87	359.98	12643.46	9658.45	9661.70	475.79	1.18	414175.01	772395.49	N 32 8 11.20 W	103 35 12.69	2.82	9673.41
	22352.00	89.65	355.77	12643.03	9753.38	9756.61	472.27	4.61	414269.92	772391.96	N 32 8 12.14 W	103 35 12.72	2.77	9768.03
	22447.00	90.32	357.55	12643.06	9848.25	9851.44	466.73	2.00	414364.75	772386.43	N 32 8 13.08 W	103 35 12.78	2.71	9862.49
	22542.00	90.59	358.35	12642.30	9943.21	9946.38	463.34	0.89	414459.68	772383.03	N 32 8 14.02 W	103 35 12.81	2.67	9957.17
	22637.00	90.22	359.43	12641.63	10038.20	10041.36	461.50	1.20	414554.66	772381.19	N 32 8 14.96 W	103 35 12.82	2.63	10051.96
Final Survey TD, PTB [100' FNL, 354' FEL]	22669.00	90.22	359.43	12641.51	10070.20	10073.36	461.18	0.00	414586.65	772380.87	N 32 8 15.28 W	103 35 12.83	2.62	10083.91

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	22.000	1/98.425	14.750	10.750	NAL_MWD_IFR1+MS-Depth Only	Vaca Draw 20-17 Federal #59H / Final Surveys - Cimarex Vaca Draw 20-17 Federal #59H MWD
	1	22.000	22.000	Act Stns	14.750	10.750	NAL_MWD_IFR1+MS-Depth Only	Vaca Draw 20-17 Federal #59H / Final Surveys - Cimarex Vaca Draw 20-17 Federal #59H MWD
	1	22.000	1050.000	Act Stns	14.750	10.750	NAL_MWD_IFR1+MS	Vaca Draw 20-17 Federal #59H / Final Surveys - Cimarex Vaca
	1	1050.000	12830.000	Act Stns	9.875	7.625	NAL_MWD_IFR1+MS	Vaca Draw 20-17 Federal #59H / Final Surveys - Cimarex Vaca
	1	12830.000	22669.000	Act Stns	6.750	5.000	NAL_MWD_IFR1+MS	Vaca Draw 20-17 Federal #59H / Final Surveys - Cimarex Vaca

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.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

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	
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
☐ Final Abandonment Notice	☐ 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 performed 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 recompleat 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: SESE / 390 FSL / 880 FEL / TWSP: 25S / RANGE: 33E / SECTION: 20 / LAT: 32.109897 / LONG: -103.588611 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 390 FSL / 355 FEL / TWSP: 25S / RANGE: 33E / SECTION: 20 / LAT: 32.109895 / LONG: -103.586916 (TVD: 12367 feet, MD: 12451 feet)

BHL: NENE / 100 FNL / 355 FEL / TWSP: 25S / RANGE: 33E / SECTION: 17 / LAT: 32.137577 / LONG: -103.586898 (TVD: 12520 feet, MD: 22554 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																		
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: 59H												
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-09 S253309P;UPR Wolfcamp 98180												
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County								
Surface:	P	20	25S	33E		390	South	880	East	Lea								
BH:	A	17	25S	33E		100	North	354	East	Lea								
13. Date Spudded 04/13/21	14. Date T.D. Reached 06/16/21		15. Date Rig Released 06/22/21		16. Date Completed (Ready to Produce) 12/15/21			17. Elevations (DF and RKB, RT, GR, etc.) 3399										
18. Total Measured Depth of Well 22,669			19. Plug Back Measured Depth 22,643		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 12,879 - 22,618																		
23. CASING RECORD (Report all strings set in well)																		
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED								
10-3/4		40.5#		1035		14-3/4		1185 sx										
7-5/8		29.7#		12,818		9-7/8		1060 sx										
5-1/2		18#		11,843		6-3/4												
5		18#		22,657		6-3/4		1579 sx										
24. LINER RECORD						25. TUBING RECORD												
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET		PACKER SET										
26. Perforation record (interval, size, and number) 12,879 - 22,618 1624 holes					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>12,879 - 22,618</td> <td>18,873,806 gals Slick water</td> </tr> <tr> <td></td> <td>28,520,906# 100 Mesh sand</td> </tr> <tr> <td></td> <td></td> </tr> </table>						DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	12,879 - 22,618	18,873,806 gals Slick water		28,520,906# 100 Mesh sand		
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED																	
12,879 - 22,618	18,873,806 gals Slick water																	
	28,520,906# 100 Mesh sand																	
28. PRODUCTION																		
Date First Production 12/15/21		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 12/29/2021	Hours Tested 24hrs	Choke Size	Prod'n For Test Period	Oil - Bbl 2766	Gas - MCF 6100	Water - Bbl. 5712		Gas - Oil Ratio 2205										
Flow Tubing Press.	Casing Pressure 1537	Calculated 24-Hour Rate	Oil - Bbl. 2766	Gas - MCF 6100	Water - Bbl. 5712		Oil Gravity - API - (<i>Corr.</i>) 45											
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 Printed Signature  Name Kanicia Schlichting Title Regulatory Analyst Date 03/11/22 E-mail Address kschlichting@cimarex.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 935	T. Lamar 4909	T. Ojo Alamo	T. Penn A"
T. Salt 1298	T. Bell Canyon 4937	T. Kirtland	T. Penn. "B"
B. Salt 4714	T. Cherry Canyon 5990	T. Fruitland	T. Penn. "C"
T. Yates	T. Brushy Canyon 7536	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Top Bone Spring 9032	T. Cliff House	T. Leadville
T. Queen	T. Avalon 10,011	T. Menefee	T. Madison
T. Grayburg	T. 1st Bone Spring Sand 10,011	T. Point Lookout	T. Elbert
T. San Andres	T. 2nd Bone Spring Carb 10,223	T. Mancos	T. McCracken
T. Glorieta	T. 2nd Bone Spring Sand 10,583	T. Gallup	T. Ignacio Otzte
T. Paddock	T. 3rd Bone Spring Carb 11,071	Base Greenhorn	T. Granite
T. Blinebry	T. 3rd Bone Spring Sand 11,722	T. Dakota	
T. Tubb	T. Wolfcamp 12,219	T. Morrison	
T. Drinkard	T.	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

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 100646

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 100646
	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

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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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 100646

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 100646
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
Ilowe	COA: File 3160-4 Completion Report within 10 days to NMOCD after BLM approval.	4/26/2022