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

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
Cimarex Energy Co. 600 N. Marienfeld St. Suite 600 Midland, TX 7901	215099
	[3] Reason for Filing Code/ Effective Date NW 12/3/19

[4] API Number	[5] Pool Name	[6] Pool Code
30-015-45911	PURPLE SAGE WOLFCAMP GAS	98220

[7] Property Code	[8] Property Name	[9] Well Number
325418	CONGRESSIONAL 28-33 FEDERAL COM	1H

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
A	28	24S	26E		390	NORTH	795	EAST	EDDY

[11] Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	33	24S	26E		330	SOUTH	382	EAST	EDDY

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date
F	P	12/3/19			

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
21778	Sunoco R&M PO Box 2039 Tulsa OK 74102	O
36785	DCP Midstream, LP 370 17th St Suite 2500 Denver CO 80202	G

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
07/25/19	11/24/19	18111	18087	8829-18040	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
17 1/2	13 3/8	410	480 sx - TOC 0
12 1/4	9 5/8	1715	650 sx - TOC 0
8 3/4 & 8 1/2	7"/5-1/2"	18101	2870sx - TOC 0
Tubing	3 1/2	6948	

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
12/4/19	12/3/19	12/10/19	24	1921	960
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
48/64	1060	3588	9816		P

[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:

Printed name: Terri Stathem

Title: Regulatory

E-mail Address: tstathem@cimarex.com

Date: 12/23/19

Phone: (432) 620-1936

OIL CONSERVATION DIVISION

Approved by:

Title: Engineer

Approval Date: 03/29/22

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

[X] AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-015-45911	98220	Purple Sage Wolfcamp (Gas)

4 Property Code	5 Property Name	6 Well Number
325418	CONGRESSIONAL 28-33 FEDERAL COM	1H

7 OGRID No.	8 Operator Name	9 Elevation
215099	CIMAREX ENERGY CO.	3358.3'

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
A	28	24S	26E		390	NORTH	795	EAST	EDDY

11 Bottom Hole Location If Different From Surface

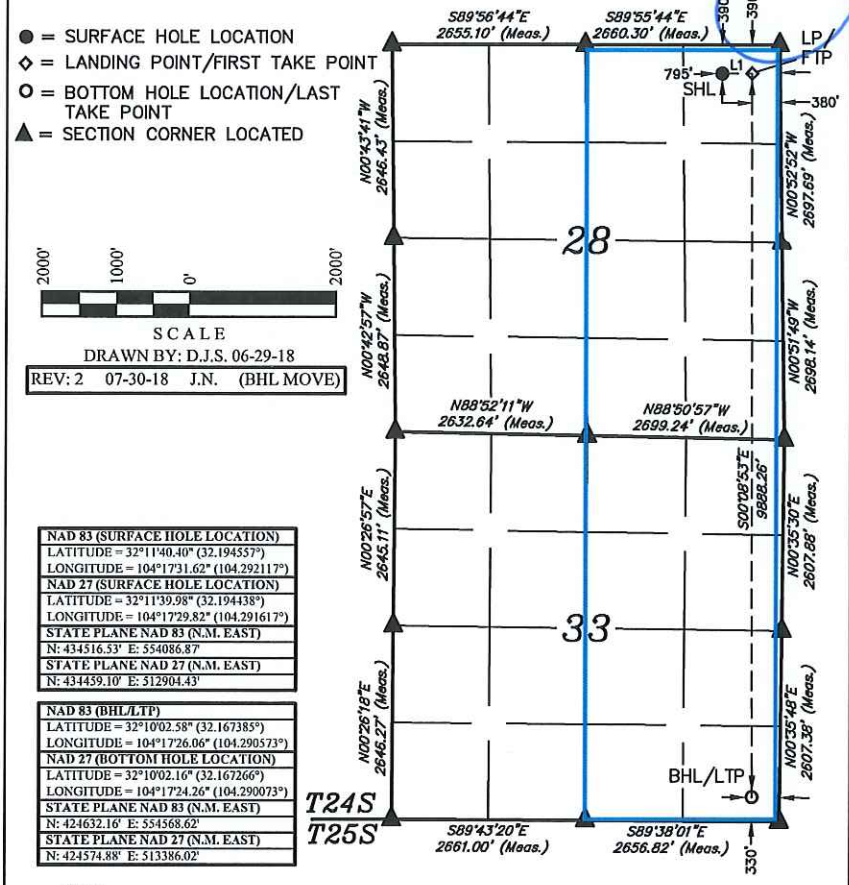
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	33	24S	26E		330	SOUTH	382	EAST	EDDY

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

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

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°56'11"E	414.94'



NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°11'40.40" (32.194557°)
LONGITUDE = 104°17'31.62" (104.292117°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°11'39.98" (32.194438°)
LONGITUDE = 104°17'29.82" (104.291617°)
STATE PLANE NAD 83 (N.M. EAST)
N: 434516.53' E: 554086.87'
STATE PLANE NAD 27 (N.M. EAST)
N: 434459.10' E: 512904.43'

NAD 83 (BHL/LTP)
LATITUDE = 32°10'02.58" (32.167385°)
LONGITUDE = 104°17'26.06" (104.290573°)
NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 32°10'02.16" (32.167266°)
LONGITUDE = 104°17'24.26" (104.290073°)
STATE PLANE NAD 83 (N.M. EAST)
N: 424632.16' E: 554568.62'
STATE PLANE NAD 27 (N.M. EAST)
N: 424574.88' E: 513386.02'

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"

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 12/23/19
Date

TStathem
Printed Name

Tstathem@cimarex.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.

June 09, 2018
Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number:

Cimarex

Eddy County, New Mexico (NAD83) Congressional 28-33 Fed Com Pad (Grid)

API#

Congressional 28-33 Fed Com 1H

SHL: (390' FNL - 795' FEL)

Wellbore #1

Design: Actual

Sperry Drilling Services

Combo Report

30 September, 2019

Well Coordinates:	32.19455657 -104.29211749	North American Datum 1983 New Mexico Eastern Zone 434,516.53 N 554,086.87 E
Ground Level: 3,358.30 usft		
Local Coordinate Origin:		Centered on Well Congressional 28-33 Fed Com 1H
Viewing Datum:		RKB (H&P 380) 26' + GL(3358.3') @ 3384.30usft
TVDs to System:		N
North Reference:		**Grid**
Unit System:		Midcon (2 decimal)
Version: 5000.15 Build: 91		
Report Version: Midcon Combo v1.14		

HALLIBURTON

Design Report for Congressional 28-33 Fed Com 1H - Actual

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
0.00	0.00	0.00	0.00	0.00 N	0.00 E	434,516.53	554,086.87	0.00	0.00	0.00	
165.00	2.00	0.71	164.97	2.88 N	0.04 E	434,519.41	554,086.91	1.21	-2.87	0.71	First MWD Survey @ 165'MD
375.00	2.40	1.75	374.81	10.94 N	0.22 E	434,527.47	554,087.09	0.19	-10.91	6.22	
479.00	3.18	91.17	478.73	13.06 N	3.17 E	434,529.59	554,090.04	3.81	-12.89	126.64	
570.00	1.61	100.35	569.65	12.78 N	6.95 E	434,529.31	554,093.82	1.77	-12.42	170.83	
659.00	0.60	135.84	658.63	12.22 N	8.50 E	434,528.75	554,095.37	1.32	-11.79	162.74	
749.00	1.08	134.60	748.62	11.28 N	9.44 E	434,527.81	554,096.31	0.53	-10.81	-2.79	
839.00	1.30	140.79	838.60	9.90 N	10.68 E	434,526.43	554,097.55	0.28	-9.36	33.42	
933.00	1.60	135.24	932.57	8.14 N	12.28 E	434,524.67	554,099.15	0.35	-7.53	-27.88	
1,027.00	1.82	142.17	1,026.53	6.03 N	14.12 E	434,522.56	554,100.99	0.32	-5.33	46.73	
1,121.00	1.44	139.01	1,120.49	3.96 N	15.81 E	434,520.49	554,102.68	0.42	-3.18	-168.27	
1,215.00	1.24	137.82	1,214.46	2.31 N	17.27 E	434,518.84	554,104.14	0.21	-1.47	-172.67	
1,310.00	0.42	99.74	1,309.45	1.49 N	18.30 E	434,518.02	554,105.17	1.00	-0.60	-164.10	
1,404.00	0.79	38.83	1,403.45	1.94 N	19.05 E	434,518.47	554,105.92	0.74	-1.01	-92.98	
1,498.00	0.95	356.93	1,497.44	3.22 N	19.41 E	434,519.75	554,106.28	0.68	-2.27	-97.44	
1,592.00	1.17	312.76	1,591.42	4.65 N	18.67 E	434,521.18	554,105.54	0.88	-3.74	-97.73	
1,654.00	1.32	313.19	1,653.41	5.57 N	17.68 E	434,522.10	554,104.55	0.24	-4.70	3.78	
1,774.00	1.68	313.38	1,773.37	7.72 N	15.40 E	434,524.25	554,102.27	0.30	-6.96	0.89	
1,868.00	1.83	311.96	1,867.32	9.67 N	13.28 E	434,526.20	554,100.15	0.17	-9.02	-16.88	
1,962.00	1.90	306.96	1,961.27	11.61 N	10.92 E	434,528.14	554,097.79	0.19	-11.07	-69.24	
2,056.00	1.79	16.95	2,055.24	13.95 N	10.10 E	434,530.48	554,096.97	2.25	-13.45	127.42	
2,151.00	2.54	36.07	2,150.17	17.08 N	11.77 E	434,533.61	554,098.64	1.09	-16.48	53.74	
2,245.00	3.47	46.43	2,244.04	20.72 N	15.06 E	434,537.25	554,101.93	1.14	-19.96	35.53	
2,339.00	4.57	56.72	2,337.81	24.74 N	20.25 E	434,541.27	554,107.12	1.39	-23.72	38.46	
2,433.00	5.66	64.73	2,431.43	28.77 N	27.57 E	434,545.30	554,114.44	1.38	-27.39	37.26	
2,528.00	7.00	75.08	2,525.85	32.26 N	37.41 E	434,548.79	554,124.28	1.85	-30.40	45.64	
2,622.00	8.18	78.24	2,619.03	35.10 N	49.49 E	434,551.63	554,136.36	1.33	-32.65	21.05	
2,716.00	9.80	82.73	2,711.87	37.47 N	63.97 E	434,554.00	554,150.84	1.88	-34.32	25.65	
2,810.00	11.24	91.64	2,804.30	38.22 N	81.07 E	434,554.75	554,167.94	2.31	-34.23	52.92	
2,905.00	12.43	97.52	2,897.28	36.62 N	100.46 E	434,553.15	554,187.33	1.78	-31.69	48.28	
2,999.00	11.34	96.93	2,989.26	34.18 N	119.66 E	434,550.71	554,206.53	1.17	-28.32	-173.93	
3,093.00	10.42	96.91	3,081.57	32.04 N	137.28 E	434,548.57	554,224.15	0.98	-25.32	-179.77	
3,187.00	9.29	96.33	3,174.18	30.18 N	153.26 E	434,546.71	554,240.13	1.21	-22.69	-175.27	
3,282.00	8.48	96.49	3,268.04	28.55 N	167.84 E	434,545.08	554,254.71	0.85	-20.34	178.33	
3,376.00	7.80	97.13	3,361.09	26.97 N	181.05 E	434,543.50	554,267.92	0.73	-18.13	172.73	
3,470.00	7.98	97.70	3,454.20	25.31 N	193.85 E	434,541.84	554,280.72	0.21	-15.84	23.78	

Design Report for Congressional 28-33 Fed Com 1H - Actual

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
3,564.00	8.79	96.98	3,547.20	23.56 N	207.44 E	434,540.09	554,294.31	0.87	-13.43	-7.74	
3,658.00	7.69	94.98	3,640.23	22.14 N	220.84 E	434,538.67	554,307.71	1.21	-11.36	-166.38	
3,753.00	6.96	94.08	3,734.45	21.18 N	232.91 E	434,537.71	554,319.78	0.78	-9.82	-171.51	
3,847.00	6.36	96.13	3,827.82	20.22 N	243.77 E	434,536.75	554,330.64	0.69	-8.33	159.40	
3,941.00	6.98	103.20	3,921.18	18.36 N	254.51 E	434,534.89	554,341.38	1.09	-5.95	56.49	
4,036.00	6.80	102.84	4,015.50	15.79 N	265.61 E	434,532.32	554,352.48	0.19	-2.84	-166.69	
4,130.00	6.25	98.60	4,108.89	13.79 N	276.10 E	434,530.32	554,362.97	0.78	-0.33	-140.87	
4,224.00	6.48	87.18	4,202.31	13.28 N	286.45 E	434,529.81	554,373.32	1.37	0.68	-85.41	
4,319.00	7.13	90.05	4,296.64	13.54 N	297.70 E	434,530.07	554,384.57	0.77	0.97	29.05	
4,413.00	7.80	93.90	4,389.85	13.10 N	309.90 E	434,529.63	554,396.77	0.89	2.00	38.66	
4,507.00	6.99	93.17	4,483.06	12.35 N	321.98 E	434,528.88	554,408.85	0.87	3.34	-173.75	
4,601.00	6.68	92.09	4,576.39	11.84 N	333.15 E	434,528.37	554,420.02	0.36	4.39	-158.02	
4,696.00	7.48	93.29	4,670.67	11.28 N	344.85 E	434,527.81	554,431.72	0.86	5.52	11.07	
4,790.00	7.46	94.18	4,763.87	10.49 N	357.04 E	434,527.02	554,443.91	0.12	6.91	100.25	
4,885.00	8.55	95.27	4,857.94	9.39 N	370.22 E	434,525.92	554,457.09	1.16	8.65	8.47	
4,979.00	8.13	95.30	4,950.95	8.13 N	383.80 E	434,524.66	554,470.67	0.45	10.56	179.42	
5,073.00	7.95	96.75	5,044.03	6.75 N	396.87 E	434,523.28	554,483.74	0.29	12.57	132.31	
5,168.00	7.28	100.57	5,138.19	4.88 N	409.32 E	434,521.41	554,496.19	0.88	15.05	144.81	
5,262.00	6.12	108.11	5,231.55	2.23 N	419.93 E	434,518.76	554,506.80	1.55	18.22	146.53	
5,356.00	3.56	109.83	5,325.20	0.32 S	427.44 E	434,516.21	554,514.31	2.73	21.13	177.61	
5,451.00	1.81	81.75	5,420.10	1.11 S	431.70 E	434,515.42	554,518.57	2.25	22.12	-156.53	
5,545.00	1.57	121.74	5,514.06	1.57 S	434.27 E	434,514.96	554,521.14	1.25	22.71	121.03	
5,639.00	1.82	218.21	5,608.04	3.42 S	434.44 E	434,513.11	554,521.31	2.70	24.57	134.45	
5,733.00	3.32	226.95	5,701.94	6.45 S	431.53 E	434,510.08	554,518.40	1.64	27.45	19.04	
5,827.00	2.18	203.77	5,795.83	9.95 S	428.82 E	434,506.58	554,515.69	1.67	30.81	-146.89	
5,922.00	2.22	169.73	5,890.77	13.41 S	428.42 E	434,503.12	554,515.29	1.36	34.25	-105.31	
6,016.00	2.35	125.26	5,984.70	16.32 S	430.31 E	434,500.21	554,517.18	1.84	37.24	-108.24	
6,110.00	0.98	129.60	6,078.66	17.94 S	432.51 E	434,498.59	554,519.38	1.46	38.97	176.91	
6,204.00	0.71	266.11	6,172.65	18.49 S	432.55 E	434,498.04	554,519.42	1.67	39.53	161.90	
6,298.00	1.94	294.96	6,266.63	17.86 S	430.52 E	434,498.67	554,517.39	1.45	38.80	43.41	
6,392.00	1.74	288.86	6,360.58	16.73 S	427.73 E	434,499.80	554,514.60	0.30	37.53	-138.62	
6,487.00	1.61	278.91	6,455.54	16.06 S	425.05 E	434,500.47	554,511.92	0.33	36.73	-119.00	
6,581.00	1.76	275.38	6,549.50	15.72 S	422.30 E	434,500.81	554,509.17	0.19	36.25	-36.46	
6,675.00	2.36	261.35	6,643.44	15.87 S	418.95 E	434,500.66	554,505.82	0.83	36.25	-47.20	
6,769.00	1.90	257.96	6,737.37	16.49 S	415.52 E	434,500.04	554,502.39	0.51	36.69	-166.37	
6,863.00	0.90	257.99	6,831.34	16.97 S	413.27 E	434,499.56	554,500.14	1.06	37.06	179.97	
6,958.00	0.98	252.00	6,926.33	17.37 S	411.77 E	434,499.16	554,498.64	0.13	37.40	-53.87	

Design Report for Congressional 28-33 Fed Com 1H - Actual

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
7,052.00	1.16	240.19	7,020.31	18.09 S	410.18 E	434,498.44	554,497.05	0.30	38.04	-56.78	
7,146.00	0.99	236.16	7,114.30	19.02 S	408.68 E	434,497.51	554,495.55	0.20	38.89	-158.03	
7,241.00	1.09	208.14	7,209.28	20.27 S	407.57 E	434,496.26	554,494.44	0.54	40.09	-93.10	
7,335.00	0.95	173.56	7,303.27	21.84 S	407.24 E	434,494.69	554,494.11	0.66	41.63	-119.72	
7,429.00	0.56	221.07	7,397.26	22.96 S	407.02 E	434,493.57	554,493.89	0.75	42.74	144.16	
7,524.00	0.40	316.08	7,492.26	23.07 S	406.49 E	434,493.46	554,493.36	0.75	42.83	146.19	
7,618.00	0.71	156.15	7,586.26	23.36 S	406.49 E	434,493.17	554,493.36	1.16	43.12	-167.14	
7,712.00	1.26	165.18	7,680.24	24.90 S	406.99 E	434,491.63	554,493.86	0.61	44.68	20.31	
7,806.00	1.90	147.07	7,774.21	27.20 S	408.11 E	434,489.33	554,494.98	0.86	47.04	-47.25	
7,935.00	1.51	135.45	7,903.15	30.21 S	410.46 E	434,486.32	554,497.33	0.40	50.15	-144.15	
7,966.00	1.41	137.04	7,934.14	30.78 S	411.01 E	434,485.75	554,497.88	0.35	50.75	158.74	
7,998.00	2.61	158.87	7,966.12	31.75 S	411.54 E	434,484.78	554,498.41	4.38	51.74	43.77	
8,029.00	6.12	173.30	7,997.02	34.05 S	411.98 E	434,482.48	554,498.85	11.78	54.06	24.66	
8,060.00	10.96	176.85	8,027.67	38.63 S	412.34 E	434,477.90	554,499.21	15.70	58.66	7.98	
8,092.00	15.97	179.40	8,058.78	46.08 S	412.55 E	434,470.45	554,499.42	15.76	66.11	8.00	
8,123.00	20.94	181.30	8,088.18	55.89 S	412.47 E	434,460.64	554,499.34	16.15	75.90	7.81	
8,154.00	25.72	183.47	8,116.64	68.15 S	411.94 E	434,448.38	554,498.81	15.66	88.12	11.19	
8,186.00	29.56	182.95	8,144.98	82.97 S	411.11 E	434,433.56	554,497.98	12.02	102.88	-3.83	
8,217.00	33.20	181.27	8,171.44	99.09 S	410.53 E	434,417.44	554,497.40	12.08	118.96	-14.23	
8,264.00	37.90	179.50	8,209.67	126.41 S	410.37 E	434,390.12	554,497.24	10.24	146.23	-13.08	
8,311.00	41.96	178.71	8,245.71	156.56 S	410.85 E	434,359.97	554,497.72	8.71	176.38	-7.42	
8,359.00	47.05	179.22	8,279.93	190.19 S	411.45 E	434,326.34	554,498.32	10.63	210.00	4.20	
8,406.00	51.05	180.42	8,310.73	225.68 S	411.55 E	434,290.85	554,498.42	8.73	245.45	13.16	
8,453.00	54.56	181.62	8,339.13	263.11 S	410.88 E	434,253.42	554,497.75	7.74	282.80	15.60	
8,500.00	57.65	182.04	8,365.34	302.10 S	409.63 E	434,214.43	554,496.50	6.62	321.68	6.56	
8,547.00	60.02	182.84	8,389.66	342.28 S	407.91 E	434,174.25	554,494.78	5.25	361.73	16.32	
8,594.00	62.55	182.23	8,412.24	383.45 S	406.09 E	434,133.08	554,492.96	5.50	402.77	-12.09	
8,641.00	66.22	180.69	8,432.56	425.81 S	405.02 E	434,090.72	554,491.89	8.35	445.02	-21.06	
8,688.00	70.10	179.45	8,450.04	469.43 S	404.97 E	434,047.10	554,491.84	8.61	488.58	-16.76	
8,735.00	73.34	178.50	8,464.78	514.04 S	405.78 E	434,002.49	554,492.65	7.16	533.19	-15.71	
8,782.00	76.44	178.21	8,477.03	559.39 S	407.08 E	433,957.14	554,493.95	6.62	578.55	-5.20	
8,829.00	79.18	177.32	8,486.96	605.29 S	408.87 E	433,911.24	554,495.74	6.12	624.48	-17.71	
8,876.00	83.64	176.69	8,493.97	651.69 S	411.30 E	433,864.84	554,498.17	9.58	670.94	-8.00	
8,923.00	87.29	176.92	8,497.69	698.46 S	413.91 E	433,818.07	554,500.78	7.78	717.78	3.60	
8,971.00	90.62	177.29	8,498.56	746.39 S	416.34 E	433,770.14	554,503.21	6.98	765.77	6.34	
9,065.00	90.89	180.98	8,497.33	840.35 S	417.75 E	433,676.18	554,504.62	3.94	859.69	85.79	
9,126.00	91.08	181.49	8,496.28	901.33 S	416.44 E	433,615.20	554,503.31	0.89	920.53	69.56	

Design Report for Congressional 28-33 Fed Com 1H - Actual

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
9,206.00	91.55	180.53	8,494.44	981.29 S	415.03 E	433,535.24	554,501.90	1.34	1,000.33	-63.90	
9,301.00	89.87	179.72	8,493.26	1,076.28 S	414.82 E	433,440.25	554,501.69	1.96	1,095.20	-154.25	
9,395.00	89.71	180.67	8,493.61	1,170.28 S	414.50 E	433,346.25	554,501.37	1.02	1,189.07	99.56	
9,489.00	90.22	178.74	8,493.67	1,264.27 S	414.99 E	433,252.26	554,501.86	2.12	1,282.98	-75.20	
9,583.00	89.44	178.60	8,493.94	1,358.25 S	417.17 E	433,158.28	554,504.04	0.84	1,376.94	-169.82	
9,677.00	89.82	179.44	8,494.55	1,452.23 S	418.78 E	433,064.30	554,505.65	0.98	1,470.89	65.66	
9,771.00	90.20	179.29	8,494.54	1,546.22 S	419.82 E	432,970.31	554,506.69	0.43	1,564.83	-21.54	
9,866.00	89.43	177.83	8,494.84	1,641.19 S	422.21 E	432,875.34	554,509.08	1.74	1,659.80	-117.81	
9,960.00	90.83	180.45	8,494.63	1,735.17 S	423.62 E	432,781.36	554,510.49	3.16	1,753.73	61.88	
10,054.00	89.15	179.09	8,494.65	1,829.16 S	423.99 E	432,687.37	554,510.86	2.30	1,847.63	-141.01	
10,148.00	89.55	178.36	8,495.71	1,923.13 S	426.09 E	432,593.40	554,512.96	0.89	1,941.59	-61.28	
10,243.00	89.28	177.60	8,496.68	2,018.07 S	429.43 E	432,498.46	554,516.30	0.85	2,036.58	-109.56	
10,337.00	89.21	178.51	8,497.92	2,112.00 S	432.62 E	432,404.53	554,519.49	0.97	2,130.56	94.40	
10,431.00	90.16	178.84	8,498.44	2,205.98 S	434.80 E	432,310.55	554,521.67	1.07	2,224.53	19.16	
10,525.00	89.98	179.28	8,498.32	2,299.96 S	436.34 E	432,216.57	554,523.21	0.51	2,318.48	112.25	
10,620.00	90.76	179.55	8,497.71	2,394.96 S	437.31 E	432,121.57	554,524.18	0.87	2,413.40	19.09	
10,714.00	90.55	179.92	8,496.63	2,488.95 S	437.74 E	432,027.58	554,524.61	0.45	2,507.31	119.58	
10,808.00	91.50	180.71	8,494.95	2,582.93 S	437.23 E	431,933.60	554,524.10	1.31	2,601.15	39.74	
10,903.00	91.34	181.13	8,492.60	2,677.89 S	435.70 E	431,838.64	554,522.57	0.47	2,695.92	110.86	
10,997.00	91.59	180.07	8,490.20	2,771.85 S	434.72 E	431,744.68	554,521.59	1.16	2,789.73	-76.71	
11,105.00	90.93	179.37	8,487.82	2,879.82 S	435.25 E	431,636.71	554,522.12	0.89	2,897.60	-133.31	
11,199.00	91.67	178.99	8,485.69	2,973.79 S	436.59 E	431,542.74	554,523.46	0.88	2,991.51	-27.17	
11,294.00	90.06	177.18	8,484.25	3,068.72 S	439.77 E	431,447.81	554,526.64	2.55	3,086.49	-131.64	
11,388.00	90.31	178.05	8,483.95	3,162.63 S	443.68 E	431,353.90	554,530.55	0.96	3,180.48	73.97	
11,482.00	89.01	178.81	8,484.51	3,256.59 S	446.25 E	431,259.94	554,533.12	1.60	3,274.46	149.69	
11,576.00	89.44	180.78	8,485.78	3,350.58 S	446.59 E	431,165.95	554,533.46	2.14	3,368.35	77.70	
11,671.00	90.31	181.68	8,485.99	3,445.56 S	444.55 E	431,070.97	554,531.42	1.32	3,463.11	45.97	
11,765.00	89.20	180.42	8,486.39	3,539.54 S	442.83 E	430,976.99	554,529.70	1.79	3,556.90	-131.38	
11,859.00	89.01	180.01	8,487.86	3,633.52 S	442.47 E	430,883.01	554,529.34	0.48	3,650.76	-114.87	
11,953.00	89.44	180.03	8,489.13	3,727.51 S	442.44 E	430,789.02	554,529.31	0.46	3,744.63	2.66	
12,048.00	89.57	180.29	8,489.95	3,822.51 S	442.18 E	430,694.02	554,529.05	0.31	3,839.50	63.44	
12,142.00	89.44	180.51	8,490.76	3,916.50 S	441.52 E	430,600.03	554,528.39	0.27	3,933.35	120.58	
12,236.00	90.99	180.02	8,490.41	4,010.50 S	441.09 E	430,506.03	554,527.96	1.73	4,027.22	-17.54	
12,330.00	91.18	180.59	8,488.63	4,104.48 S	440.58 E	430,412.05	554,527.45	0.64	4,121.06	71.56	
12,424.00	90.99	180.30	8,486.85	4,198.46 S	439.85 E	430,318.07	554,526.72	0.37	4,214.90	-123.23	
12,519.00	91.05	180.23	8,485.16	4,293.45 S	439.42 E	430,223.08	554,526.29	0.10	4,309.75	-49.39	

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Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
12,613.00	90.93	180.42	8,483.53	4,387.43 S	438.88 E	430,129.10	554,525.75	0.24	4,403.59	122.28	
12,708.00	90.06	179.20	8,482.71	4,482.42 S	439.20 E	430,034.11	554,526.07	1.58	4,498.49	-125.49	
12,802.00	90.74	179.66	8,482.06	4,576.42 S	440.13 E	429,940.11	554,527.00	0.87	4,592.42	34.08	
12,894.00	90.80	178.73	8,480.82	4,668.40 S	441.43 E	429,848.13	554,528.30	1.01	4,684.35	-86.30	
12,987.00	90.87	178.96	8,479.46	4,761.37 S	443.30 E	429,755.16	554,530.17	0.26	4,777.30	73.07	
13,081.00	90.31	178.64	8,478.50	4,855.34 S	445.27 E	429,661.19	554,532.14	0.69	4,871.26	-150.25	
13,175.00	90.56	178.65	8,477.78	4,949.31 S	447.49 E	429,567.22	554,534.36	0.27	4,965.23	2.29	
13,231.00	89.67	178.04	8,477.67	5,005.29 S	449.11 E	429,511.24	554,535.98	1.92	5,021.22	-145.61	Sec. Crossing @ 13231'MD (0.54' FSL, 380.71' FEL of Sec. 28)
13,269.00	89.07	177.63	8,478.09	5,043.26 S	450.54 E	429,473.27	554,537.41	1.92	5,059.21	-145.61	
13,364.00	91.54	179.93	8,477.58	5,138.22 S	452.56 E	429,378.31	554,539.43	3.55	5,154.16	42.96	
13,458.00	88.95	179.71	8,477.18	5,232.21 S	452.86 E	429,284.32	554,539.73	2.77	5,248.05	-175.14	
13,552.00	90.43	180.75	8,477.69	5,326.21 S	452.48 E	429,190.32	554,539.35	1.92	5,341.92	35.10	
13,646.00	89.07	180.81	8,478.10	5,420.20 S	451.20 E	429,096.33	554,538.07	1.45	5,435.73	177.47	
13,740.00	89.94	180.48	8,478.91	5,514.18 S	450.14 E	429,002.35	554,537.01	0.99	5,529.56	-20.77	
13,834.00	90.46	179.66	8,478.58	5,608.18 S	450.03 E	428,908.35	554,536.90	1.03	5,623.44	-57.62	
13,929.00	90.18	178.84	8,478.05	5,703.17 S	451.27 E	428,813.36	554,538.14	0.91	5,718.38	-108.85	
14,023.00	91.05	179.13	8,477.04	5,797.15 S	452.94 E	428,719.38	554,539.81	0.98	5,812.33	18.43	
14,117.00	91.79	178.57	8,474.71	5,891.10 S	454.82 E	428,625.43	554,541.69	0.99	5,906.26	-37.10	
14,211.00	89.69	177.98	8,473.50	5,985.05 S	457.65 E	428,531.48	554,544.52	2.32	6,000.23	-164.30	
14,305.00	90.49	178.52	8,473.35	6,079.00 S	460.52 E	428,437.53	554,547.39	1.03	6,094.21	34.02	
14,400.00	89.63	178.78	8,473.25	6,173.97 S	462.76 E	428,342.56	554,549.63	0.95	6,189.18	163.18	
14,494.00	89.63	179.09	8,473.86	6,267.96 S	464.51 E	428,248.57	554,551.38	0.33	6,283.14	90.00	
14,589.00	89.87	179.35	8,474.27	6,362.95 S	465.80 E	428,153.58	554,552.67	0.37	6,378.08	47.29	
14,683.00	90.13	180.01	8,474.27	6,456.94 S	466.33 E	428,059.59	554,553.20	0.75	6,471.99	68.50	
14,777.00	90.00	179.47	8,474.17	6,550.94 S	466.75 E	427,965.59	554,553.62	0.59	6,565.90	-103.54	
14,872.00	89.07	179.35	8,474.94	6,645.93 S	467.73 E	427,870.60	554,554.60	0.99	6,660.82	-172.65	
14,966.00	90.13	179.88	8,475.59	6,739.93 S	468.36 E	427,776.60	554,555.23	1.26	6,754.74	26.57	
15,060.00	90.93	180.39	8,474.72	6,833.92 S	468.14 E	427,682.61	554,555.01	1.01	6,848.61	32.51	
15,154.00	90.68	179.72	8,473.40	6,927.91 S	468.05 E	427,588.62	554,554.92	0.76	6,942.48	-110.46	
15,248.00	91.98	179.53	8,471.22	7,021.88 S	468.67 E	427,494.65	554,555.54	1.40	7,036.37	-8.31	
15,342.00	91.61	179.94	8,468.28	7,115.83 S	469.10 E	427,400.70	554,555.97	0.59	7,130.23	132.07	
15,436.00	91.85	180.13	8,465.44	7,209.79 S	469.04 E	427,306.74	554,555.91	0.33	7,224.08	38.35	
15,531.00	91.18	180.83	8,462.93	7,304.75 S	468.25 E	427,211.78	554,555.12	1.02	7,318.89	133.75	
15,625.00	91.67	181.61	8,460.59	7,398.70 S	466.25 E	427,117.83	554,553.12	0.98	7,412.63	57.85	
15,720.00	89.87	180.63	8,459.31	7,493.67 S	464.39 E	427,022.86	554,551.26	2.16	7,507.39	-151.43	
15,814.00	90.99	180.09	8,458.61	7,587.66 S	463.80 E	426,928.87	554,550.67	1.32	7,601.25	-25.74	

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Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
15,909.00	90.31	179.32	8,457.53	7,682.66 S	464.29 E	426,833.87	554,551.16	1.08	7,696.15	-131.45	
16,003.00	89.69	180.14	8,457.53	7,776.65 S	464.73 E	426,739.88	554,551.60	1.09	7,790.06	127.09	
16,097.00	89.32	179.79	8,458.34	7,870.65 S	464.79 E	426,645.88	554,551.66	0.54	7,883.94	-136.59	
16,191.00	88.27	178.85	8,460.32	7,964.62 S	465.91 E	426,551.91	554,552.78	1.50	7,977.86	-138.18	
16,286.00	89.44	179.21	8,462.22	8,059.59 S	467.51 E	426,456.94	554,554.38	1.29	8,072.79	17.10	
16,380.00	89.38	180.11	8,463.19	8,153.58 S	468.07 E	426,362.95	554,554.94	0.96	8,166.70	93.82	
16,474.00	91.30	180.49	8,462.63	8,247.57 S	467.58 E	426,268.96	554,554.45	2.08	8,260.55	11.19	
16,569.00	89.82	179.69	8,461.70	8,342.56 S	467.43 E	426,173.97	554,554.30	1.77	8,355.43	-151.60	
16,663.00	89.26	179.98	8,462.45	8,436.56 S	467.70 E	426,079.97	554,554.57	0.67	8,449.32	152.62	
16,757.00	90.06	179.44	8,463.01	8,530.55 S	468.18 E	425,985.98	554,555.05	1.03	8,543.23	-34.02	
16,852.00	91.30	180.68	8,461.88	8,625.54 S	468.08 E	425,890.99	554,554.95	1.85	8,638.10	44.99	
16,946.00	91.79	180.16	8,459.35	8,719.51 S	467.39 E	425,797.02	554,554.26	0.76	8,731.92	-46.68	
17,040.00	90.49	179.00	8,457.48	8,813.48 S	468.08 E	425,703.05	554,554.95	1.85	8,825.82	-138.25	
17,135.00	89.69	178.89	8,457.33	8,908.47 S	469.83 E	425,608.06	554,556.70	0.85	8,920.77	-172.17	
17,229.00	88.15	179.28	8,459.10	9,002.43 S	471.33 E	425,514.10	554,558.20	1.69	9,014.70	165.79	
17,323.00	89.82	179.99	8,460.77	9,096.41 S	471.93 E	425,420.12	554,558.80	1.93	9,108.60	23.04	
17,417.00	88.64	179.37	8,462.03	9,190.40 S	472.45 E	425,326.13	554,559.32	1.42	9,202.50	-152.29	
17,512.00	89.13	180.01	8,463.88	9,285.38 S	472.96 E	425,231.15	554,559.83	0.85	9,297.40	52.56	
17,606.00	89.32	179.84	8,465.15	9,379.37 S	473.09 E	425,137.16	554,559.96	0.27	9,391.28	-41.82	
17,700.00	87.90	179.10	8,467.43	9,473.34 S	473.96 E	425,043.19	554,560.83	1.70	9,485.18	-152.49	
17,794.00	89.57	179.23	8,469.51	9,567.30 S	475.33 E	424,949.23	554,562.20	1.78	9,579.10	4.45	
17,888.00	90.18	179.00	8,469.71	9,661.29 S	476.78 E	424,855.24	554,563.65	0.69	9,673.04	-20.66	
17,982.00	91.23	179.24	8,468.55	9,755.27 S	478.22 E	424,761.26	554,565.09	1.15	9,766.98	12.87	
18,079.00	90.68	179.12	8,466.94	9,852.25 S	479.61 E	424,664.28	554,566.48	0.58	9,863.91	-167.69	Last MWD Survey @ 18079'MD
18,111.00	90.68	179.12	8,466.56	9,884.24 S	480.10 E	424,632.29	554,566.97	0.00	9,895.89	0.00	Proj. to TD/LTP @ 18111'MD (330.13' FSL, 380.93' FEL of Sec. 33)

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
165.00	164.97	2.88	0.04	First MWD Survey @ 165'MD
13,231.00	8,477.67	-5,005.29	449.11	Sec. Crossing @ 13231'MD (0.54' FSL, 380.71' FEL of Sec. 28)
18,079.00	8,466.94	-9,852.25	479.61	Last MWD Survey @ 18079'MD
18,111.00	8,466.56	-9,884.24	480.10	Proj. to TD/LTP @ 18111'MD (330.13' FSL, 380.93' FEL of Sec. 33)

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Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	Origin +E/-W (usft)	Start TVD (usft)
User	No Target (Freehand)	177.21	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
165.00	18,079.00	Hal MWD Surveys (Corrected)	3_MWD+IFR1+MS
18,111.00	18,111.00	Projection to TD	3_Blind

Design Targets

Target Name - hit/miss target - Shape	Dip Angle ()	Dip Dir. ()	TVD ()	+N/-S ()	+E/-W ()	Northing ()	Easting ()	Latitude	Longitude
()									

Directional Difficulty Index

Average Dogleg over Survey:	1.53 °/100usft	Maximum Dogleg over Survey:	16.15 °/100usft at 8,123.00 usft
Net Tortousity applicable to Plans:	0.19 °/100usft	Directional Difficulty Index:	6.788

Audit Info

Cimarex

HALLIBURTON

Eddy County, New Mexico (NAD83)

North Reference Sheet for Congressional 28-33 Fed Com Pad (Grid) - Congressional 28-33 Fed Com 1H - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to RKB (H&P 380) 26' + GL(3358.3') @ 3384.30usft. Northing and Easting are relative to Congressional 28-33 Fed Com 1H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33333333°, Longitude Origin:0.00000000°, Latitude Origin:0.00000000°

False Easting: 541,337.50usft, False Northing: 0.00usft, Scale Reduction: 0.99990928

Grid Coordinates of Well: 434,516.53 usft N, 554,086.87 usft E

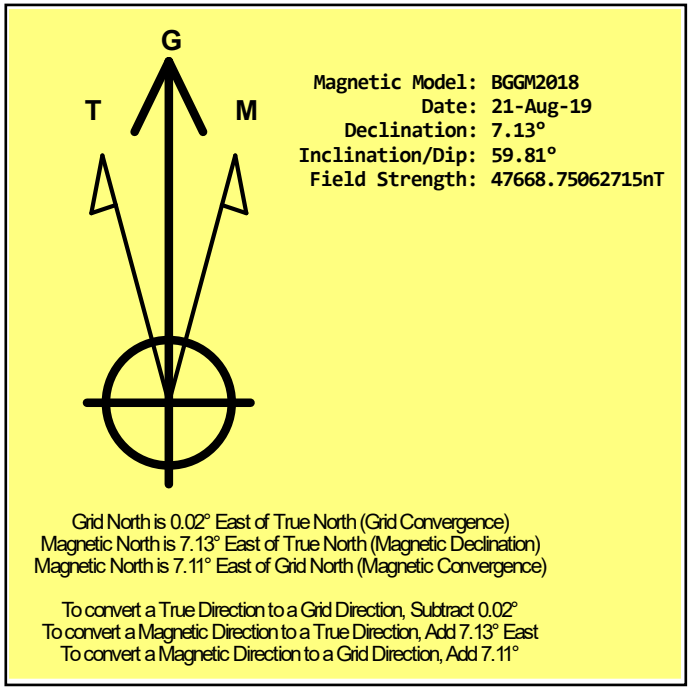
Geographical Coordinates of Well: 32.19455657, -104.29211749

Grid Convergence at Surface is: 0.02°

Based upon Minimum Curvature type calculations, at a Measured Depth of 18,111.00usft

the Bottom Hole Displacement is 9,895.89usft in the Direction of 177.22° (Grid).

Magnetic Convergence at surface is: -7.11° (21 August 2019, , BGGM2018)



Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.
NMLC065457

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
CONGRESSIONAL 28-33 FED COM 1H

2. Name of Operator
CIMAREX ENERGY COMPANY
Contact: TERRI STATHEM
E-Mail: tstathem@cimarex.com

9. API Well No.
30-015-45911

3a. Address
600 N. MARIENFELD ST, STE 600
MIDLAND, TX 79701

3b. Phone No. (include area code)
Ph: 432-620-1936

10. Field and Pool or Exploratory Area
PURPLE SAGE WOLFCAMP GAS

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 28 T24S R26E Mer 1PM NENE 390FNL 795FEL

11. County or Parish, State
EDDY COUNTY, NM

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 Drilling Operations
	☐ 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 recomplete 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 recompletion 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 determined that the site is ready for final inspection.

Completion
10-20-19 Test csg to 9762# for 30 mins. End press: 9018#. Ok.
10-21-19 RIH & tag PBTD @ 18087'.
10-24-19 to
11-22-19 Perf Wolfcamp @ 8829-18040', 980 holes, frac w/ 426050 bbls total fluid; 21848674# sand.
11-23-19 to
11-24-19 Mill out plugs and CO to PBTD. SWI.
11-29-19 RIH w/ 3-1/2" tbg, pkr, & GLV vales and set @ 6947.91'. Flowback well.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #496828 verified by the BLM Well Information System
For CIMAREX ENERGY COMPANY, sent to the Carlsbad

Name *(Printed/Typed)* TERRI STATHEM — Title MANAGER REGULATORY COMPLIANCE

Signature (Electronic Submission) — Date 12/20/2019

THIS 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)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMLC065457

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: CIMAREX ENERGY COMPANY — Contact: TERRI STATHEM — E-Mail: tstathem@cimarex.com

8. Lease Name and Well No.: Congressional 28-33 Fed Com 1H

3. Address: 600 N. MARIENFELD ST, STE 600, MIDLAND, TX 79701

3a. Phone No. (include area code): Ph: 432-620-1936

9. API Well No.: 30-015-45911

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: Sec 28 T24S R26E Mer 1PM NENE 390FNL 795FEL 32.194556 N Lat, 104.292117 W Lon
At top prod interval reported below: Sec 28 T24S R26E Mer 1PM NENE 390FNL 795FEL 32.194556 N Lat, 104.292117 W Lon
At total depth: Sec 33 T24S R26E Mer 1PM SESE 330FSL 382FEL 32.167385 N Lat, 104.290573 W Lon

10. Field and Pool, or Exploratory: PURPLE SAGE WOLFCAMP

11. Sec., T., R., M., or Block and Survey or Area: Sec 28 T24S R26E Mer 1PM

12. County or Parish: EDDY

13. State: NM

14. Date Spudded: 07/25/2019

15. Date T.D. Reached: 09/11/2019

16. Date Completed ☐ D & A ☒ Ready to Prod.: 11/24/2019

17. Elevations (DF, KB, RT, GL)*: 3358 GL

18. Total Depth: MD 18111 TVD 8467

19. Plug Back T.D.: MD 18087 TVD 8467

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	48.0	0	410		480		0	0
12.250	9.625 J55	36.0	0	1715		650		0	0
8.750	7.000 P110	29.0	0	6963		2870		0	0
8.500	5.500 P110	20.0	6963	18101					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
3.500	6948	6948						

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	8829	18040	8829 TO 18040	0.420	980	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8829 TO 18040	426050 BBLS TOTAL FLUID; 21848674# SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/04/2019	12/10/2019	24	→	1060.0	9816.0	3588.0	45.0		GAS LIFT

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
48	1921	960.0	→	1060	9816	3588	9260	PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #496853 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
DELAWARE	1769	5235	SANDSTONE; OIL WATER GAS	RUSTLER	0
BONE SPRING	5235	8360	SANDSTONE; OIL WATER GAS	DELAWARE	1769
WOLFCAMP	8360	18111	SHALE GAS OIL WATER	BONE SPRING	5235
				WOLFCAMP	8360

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #496853 Verified by the BLM Well Information System.
For CIMAREX ENERGY COMPANY, sent to the Carlsbad

Name *(please print)* TERRI STATHEM Title MANAGER REGULATORY COMPLIANCE

Signature (Electronic Submission) Date 12/21/2019

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 fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

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

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 85841
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

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

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

CONDITIONS

Action 85841

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 85841
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
llowe	None	3/29/2022