

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



4/16/2020

**Operator Notice Regarding
C-104 Denial and Request for Information**

OCD is providing notice to operators that it will deny your C-104 – *Request for Allowable and Authorization to Transport* if it fails to provide complete and accurate information, including:

Test Allowable, New Well and Recompleted Well

30-015-45911

****Amend C-104**

****Please see attached**

- ☐ C-103 (or BLM equivalent) for all casing strings
 - ☐ Spud Notice
 - ☐ Surface Casing
 - ☐ Intermediate Casing (if applicable)
 - ☐ Additional Intermediate Casing (if applicable)
 - ☐ Production Casing or Liner

☐ Applicable Order (NSL, NSP, Other _____)

☐ Deviation Survey for Vertical Wells

☒ Directional Survey

with

☒ C-102 (As-Drilled Plat for Horizontal Well)

New Well and Recompleted Well Only

☒ C-103 Completion Sundry (or BLM equivalent)

☒ C-105 Completion Report (or BLM equivalent) **-Amend**

☒ All Logs Run on Well

The sale or transport of product without an approved C-104 violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC. If OCD determines that your C-104 is incomplete or inaccurate, it will give you notice to resubmit your C-104 within 30 days. Failure to comply with this notice may result in enforcement action.

If you have any questions, please contact the local OCD District Office.

Once Amended and complete, please electronically submit through

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

RECEIVED
MAR 17 2020

Form C-104
Revised August 1, 2011

Submit to Appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. 600 N. Marienfeld St. Suite 600 Midland, TX 7901		² OGRID Number 215099
		³ Reason for Filing Code/ Effective Date NW 12/3/19
⁴ API Number 30-015-45911	⁵ Pool Name PURPLE SAGE WOLFCAMP GAS	⁶ Pool Code 98220
⁷ Property Code 325418	⁸ Property Name CONGRESSIONAL 28-33 FEDERAL COM	⁹ Well Number 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

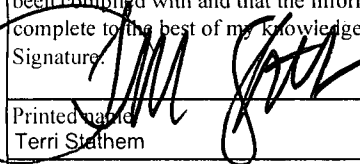
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
21778	Sunoco R&M PO Box 2039 Tulsa OK 74102	O
36785	DCP Midstream, LP 370 17th St Suite 2500 Denver CO 80202	G

IV. Well Completion Data

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

Approval Date:

"Denied"

RECEIVED

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
Santa Fe, NM 87505

MAR 17 2020

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

EMNRD-OCD ARTESIA

UNRECORDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ LAPI Number 30-015-45911	² Pool Code 98220	³ Pool Name Purple Sage Wolfcamp (Gas)
⁴ Property Code 325418	⁵ Property Name CONGRESSIONAL 28-33 FEDERAL COM	⁶ Well Number 1H
⁷ GRID No. 215099	⁸ Operator Name CIMAREX ENERGY CO.	⁹ Elevation 3358.3'

"Surface Location

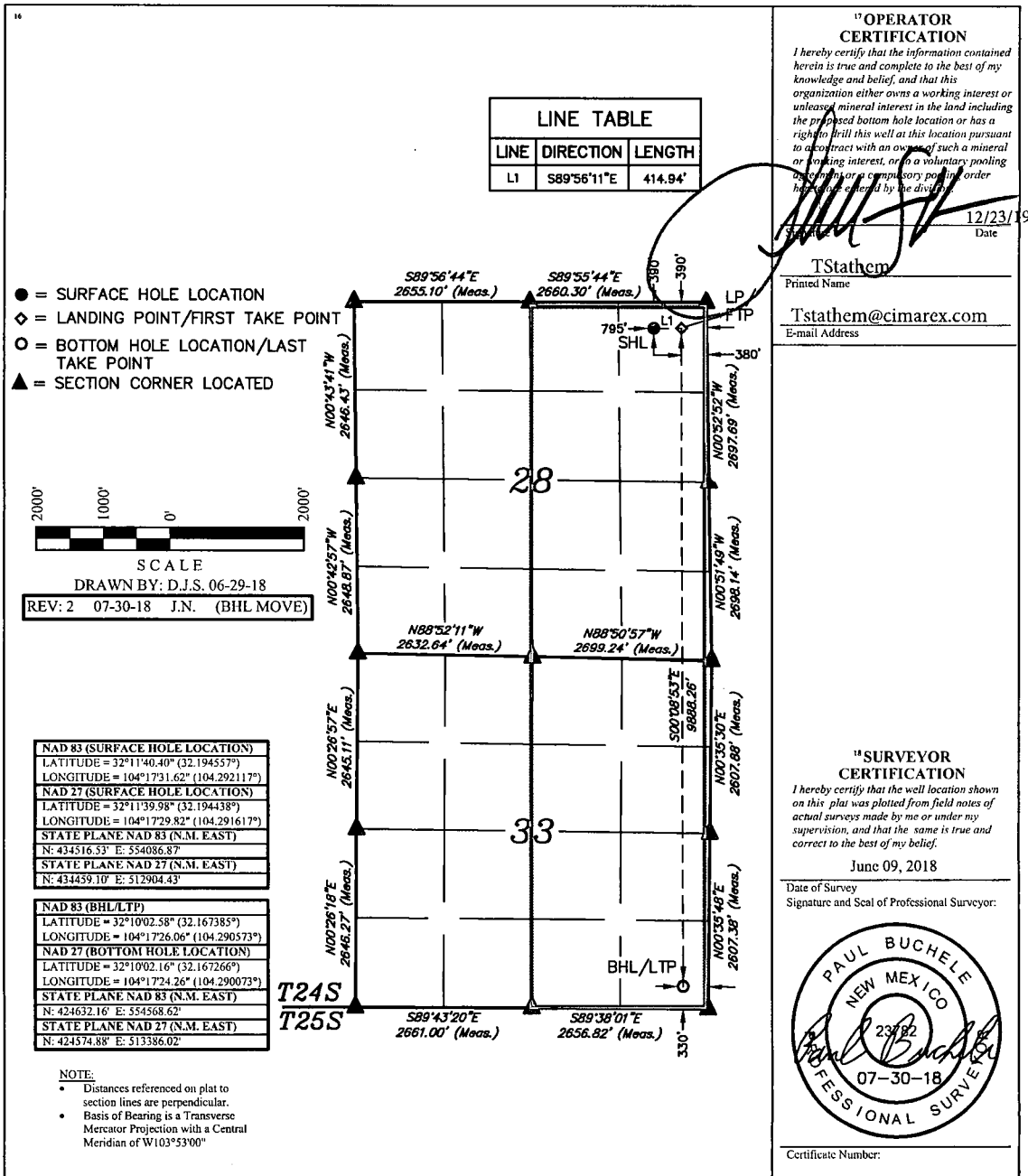
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	24S	26E		390	NORTH	795	EAST	EDDY

"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 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



"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:

PAUL BUCHELE
NEW MEXICO
23182
07-30-18
PROFESSIONAL SURVEYOR

Certificate Number:

Intent ☐ As Drilled ☒

API # 30-015-45911			
Operator Name: Cimarex Energy Co.		Property Name: Congressional 28-33 Federal Com	Well Number 1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	28	24S	26E		423	NORTH	383	EAST	Eddy
Latitude 32.19446886					Longitude -104.29078711			NAD 83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	28	24S	26E		996	NORTH	390	EAST	Eddy
Latitude 32.19289223					Longitude -104.29079646			NAD 83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
p	33	24S	26E		330	SOUTH	382	EAST	EDDY
Latitude 32.16747297					Longitude -104.29057967			NAD 83	

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

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		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
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		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
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		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
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	

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Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
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		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
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		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
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		Comment
		+N/-S (usft)	+E/-W (usft)	
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)

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

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

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 -104.3333333°, Longitude Origin:0.0000000°, Latitude Origin:0.0000000°

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

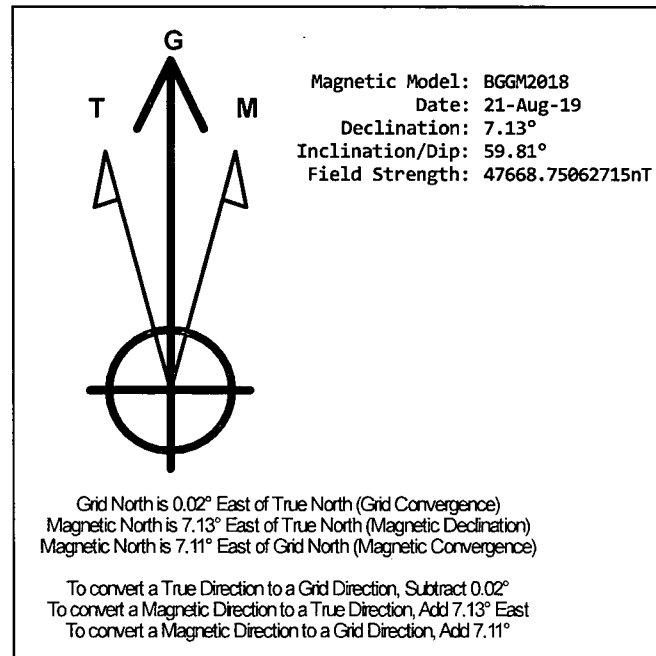
Geographical Coordinates of Well: 32.19455657, -104.29211749

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)





Project: Eddy County, New Mexico (NAD83)
 Site: Congressional 28-33 Fed Com Pad (Grid)
 Well: Congressional 28-33 Fed Com 1H
 Wellbore: Wellbore #1
 Design: Actual
 Rig:
 RKB (H&P 380) 26' + GL(3358.3') @ 3384.30usft

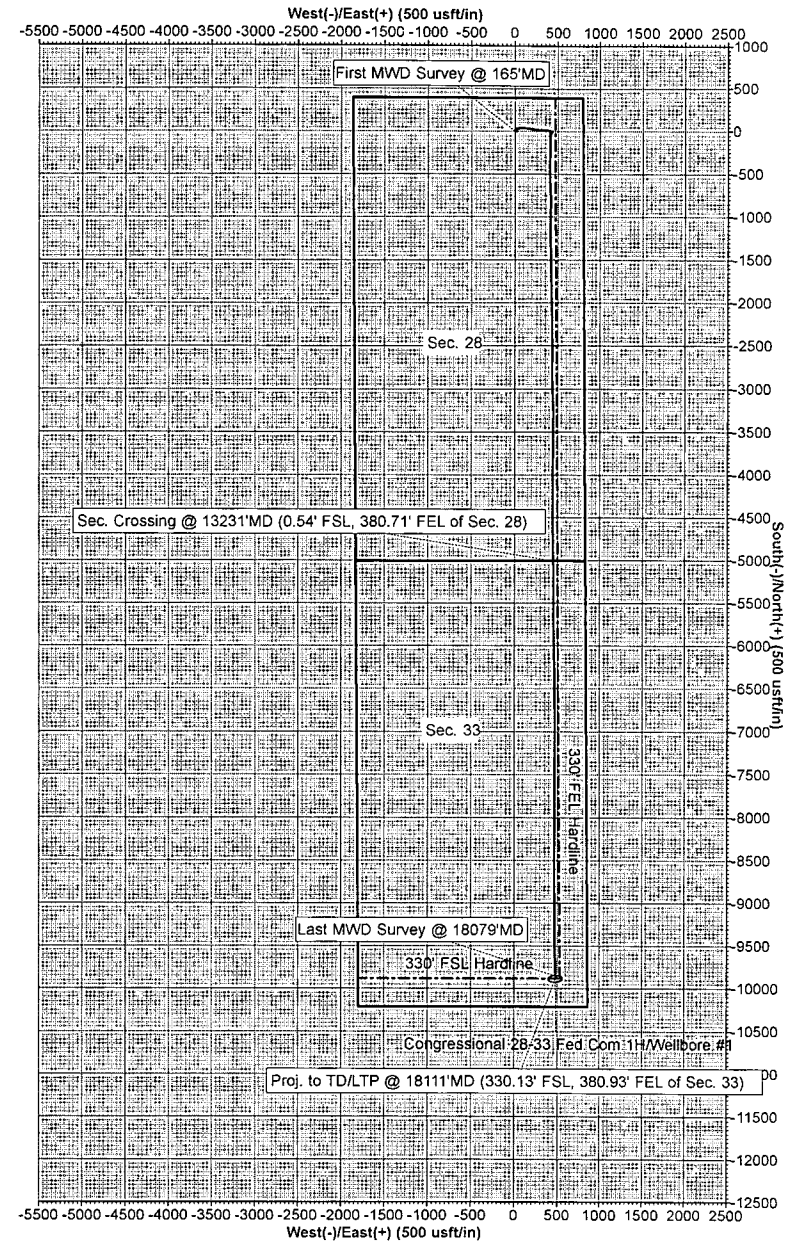
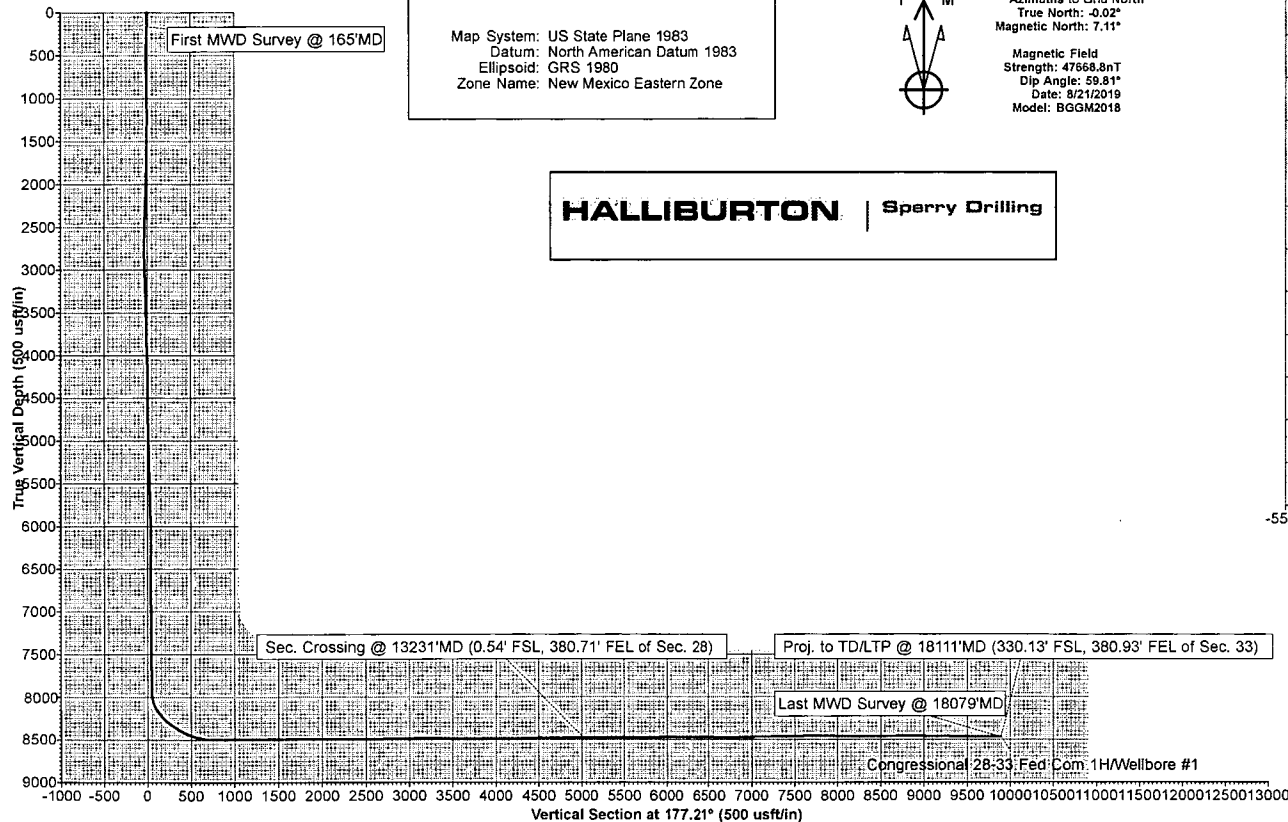
WELL DETAILS

3358.30
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 434516.53 554086.87 32.19455657 -104.29211748

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect Departure	Annotation
165.00	2.00	0.71	164.97	2.88	0.04	-2.87	2.88
13231.00	89.67	178.04	8477.67	-5005.29	449.11	5021.22	5527.64
18079.00	90.68	179.12	8466.94	-9852.25	478.61	9863.91	10375.04
18111.00	90.68	179.12	8466.56	-9884.24	480.10	9895.89	10407.03

First MWD Survey @ 165'MD
 Sec. Crossing @ 13231'MD (0.54' FSL, 380.71' FEL of Sec. 28)
 Last MWD Survey @ 18079'MD
 Proj. to TD/LTP @ 18111'MD (330.13' FSL, 380.93' FEL of Sec. 33)



RECEIVED

MAR 17 2020

Form 3160-4
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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)*

Sec 28 T24S R26E Mer 1PM
At surface NENE 390FNL 795FEL 32.194556 N Lat, 104.292117 W Lon

Sec 28 T24S R26E Mer 1PM
At top prod interval reported below NENE 390FNL 795FEL 32.194556 N Lat, 104.292117 W Lon

Sec 33 T24S R26E Mer 1PM
At total depth SESE 330FSL 382FEL 32.167385 N Lat, 104.290573 W Lon

10. Field and Pool, or Exploratory
PURPLE SAGE WOLFCAMP11. Sec., T., R., M., or Block and Survey
or Area Sec 28 T24S R26E Mer 1PM12. County or Parish
EDDY13. 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 Sk. & 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 STATHEMTitle MANAGER REGULATORY COMPLIANCESignature (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 fraudulent statements or representations as to any matter within its jurisdiction.

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