

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	
		³ Reason for Filing Code/ Effective Date	
⁴ API Number	⁵ Pool Name		⁶ Pool Code
⁷ Property Code	⁸ Property Name		⁹ Well Number

II. ¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
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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
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

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W

IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBDT	²⁵ Perforations	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
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: <i>Fatima Vasquez</i>			OIL CONSERVATION DIVISION		
Printed name:			Approved by: Kurt Simmons		
Title:			Title: NMOCD, Santa Fe		
E-mail Address:			Approval Date: 04/12/2021		
Date:		Phone:			

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) 746-3460 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 30-025-46295		² Pool Code 97903	³ Pool Name WC-025 G08 S253235G; LWR BONE SPRING	
⁴ Property Code 326032	⁵ Property Name RED HILLS 32-5 Federal Com			⁶ Well Number 156H
⁷ OGRID No. 162683	⁸ Operator Name CIMAREX ENERGY CO. of Colorado			⁹ Elevation 3409.7'

¹⁰Surface Location

UL or lot no. C	Section 32	Township 25S	Range 33E	Lot Idn	Feet from the 390	North/South line NORTH	Feet from the 2365	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. N	Section 5	Township 26S	Range 33E	Lot Idn	Feet from the 98.7	North/South line SOUTH	Feet from the 1902	East/West line WEST	County LEA
¹² Dedicated Acres 320		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.

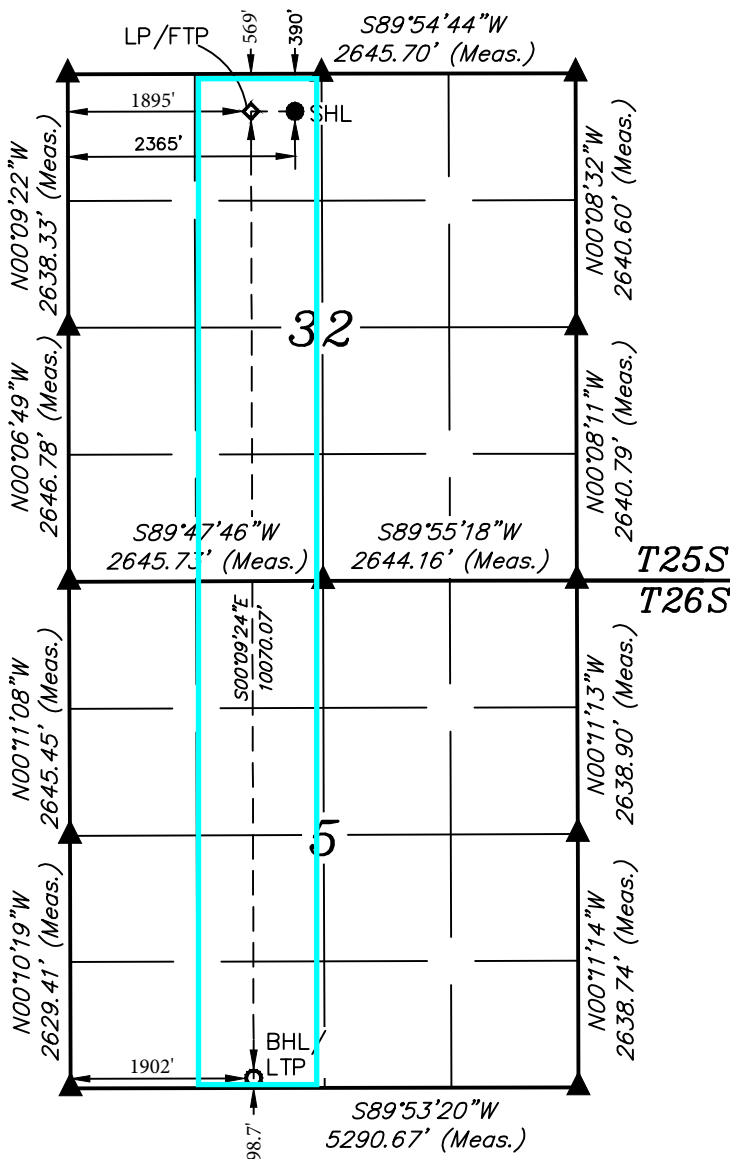
NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°05'35.68" (32.0935420°)
LONGITUDE = 103°35'42.79" (103.595220°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°05'35.23" (32.093120°)
LONGITUDE = 103°35'41.10" (103.594749°)
STATE PLANE NAD 83 (N.M. EAST)
N: 398441.47' E: 7669194.85'
STATE PLANE NAD 27 (N.M. EAST)
N: 398383.84' E: 728728.40'

NAD 83 (BHL/LTP)	
LATITUDE =	32.065567
LONGITUDE =	103.59671

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"

- = SURFACE HOLE LOCATION
 ◆ = LANDING POINT/FIRST TAKE POINT
 ⊙ = BOTTOM HOLE LOCATION
 /LAST TAKE POINT
 ▲ = SECTION CORNER LOCATED



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.

Fatima Vasquez 12/22/2020
Signature Date

Fatima Vasquez
Printed Name

fvasquez@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.

May 01, 2018

Date of Survey _____
Signature and Seal of Professional Surveyor: _____



Certificate Number:

DRAWN BY: J.N. 05-03-18

REV: 5 S.T.O. 10-07-19 (WELLBORE CHANGE)



Final Surveys - Cimarex Red Hills 32-5 Fed Com #156H MWD 0ft-20955ft (Surcon Corrected) Survey Geodetic Report (Def Survey)

Report Date: December 17, 2020 - 08:43 AM Client: Cimarex Energy Field: NM Lea County (NAD 83) Structure / Slot: Cimarex Red Hills 32-5 Fed Com #156H / New Slot Well: Cimarex Red Hills 32-5 Fed Com #156H Borehole: Red Hills 32-5 Federal Com #156H UWI / API#: Unknown / Unknown Survey Name: Final Surveys - Cimarex Red Hills 32-5 Fed Com #156H MWD 0ft-20955ft (Surcon Corrected) Survey Date: February 07, 2020 Tort / AHD / DDI / ERD Ratio: 245.842 ° / 10711.999 ft / 6.700 / 0.974 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 5' 35.68065", W 103° 35' 42.79071" Location Grid N/E Y/X: N 398441.470 ftUS, E 769914.850 ftUS CRS Grid Convergence Angle: 0.3922 ° Grid Scale Factor: 0.99996893 Version / Patch: 2.10.824.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 179.604 ° (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 3435.700 ft above MSL Seabed / Ground Elevation: 3409.700 ft above MSL Magnetic Declination: 6.557 ° Total Gravity Field Strength: 998.4285mgn (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 47675.964 nT Magnetic Dip Angle: 59.685 ° Declination Date: March 12, 2020 Magnetic Declination Model: HDGM 2020 North Reference: Grid North Grid Convergence Used: 0.3922 ° Total Corr Mag North->Grid North: 6.1650 ° Local Coord Referenced To: Well Head	
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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' FNL, 2365' FWL]	0.00	0.00	181.62	0.00	0.00	0.00	0.00	N/A	398441.47	769914.85	N 32 5 35.68	W 103 35 42.79	0.00	0.00
	195.00	0.66	170.16	195.00	1.11	-1.11	0.19	0.34	398440.36	769915.04	N 32 5 35.67	W 103 35 42.79	170.16	1.12
	295.00	0.66	165.57	294.99	2.23	-2.23	0.43	0.05	398439.24	769915.28	N 32 5 35.66	W 103 35 42.79	169.00	2.27
	385.00	0.63	170.10	384.98	3.23	-3.22	0.65	0.07	398438.25	769915.50	N 32 5 35.65	W 103 35 42.78	168.62	3.29
	476.00	0.60	185.89	475.98	4.19	-4.19	0.69	0.19	398437.28	769915.54	N 32 5 35.64	W 103 35 42.78	170.71	4.24
	566.00	0.55	195.53	565.97	5.08	-5.07	0.52	0.12	398436.40	769915.37	N 32 5 35.63	W 103 35 42.79	174.13	5.10
	746.00	0.45	224.42	745.97	6.41	-6.41	-0.20	0.15	398435.06	769914.65	N 32 5 35.62	W 103 35 42.79	181.83	6.41
	837.00	0.58	233.44	836.96	6.93	-6.94	-0.82	0.17	398434.53	769914.03	N 32 5 35.61	W 103 35 42.80	186.78	6.99
	929.00	0.71	231.01	928.96	7.56	-7.58	-1.64	0.14	398433.89	769913.21	N 32 5 35.61	W 103 35 42.81	192.23	7.75
	978.00	0.75	246.88	977.95	7.88	-7.89	-2.17	0.42	398433.58	769912.68	N 32 5 35.60	W 103 35 42.82	195.39	8.19
	1120.00	0.67	259.86	1119.94	8.38	-8.40	-3.84	0.13	398433.07	769911.01	N 32 5 35.60	W 103 35 42.84	204.58	9.24
	1215.00	0.54	60.92	1214.94	8.26	-8.28	-4.00	1.26	398433.19	769910.85	N 32 5 35.60	W 103 35 42.84	205.78	9.20
	1309.00	0.29	62.15	1308.94	7.93	-7.96	-3.40	0.27	398433.51	769911.45	N 32 5 35.60	W 103 35 42.83	203.15	8.65
	1403.00	1.19	59.21	1402.93	7.33	-7.35	-2.35	0.96	398434.12	769912.50	N 32 5 35.61	W 103 35 42.82	197.77	7.71
	1497.00	0.86	61.99	1496.91	6.51	-6.52	-0.89	0.35	398434.95	769913.96	N 32 5 35.62	W 103 35 42.80	187.80	6.58
	1592.00	0.91	60.54	1591.90	5.81	-5.81	0.39	0.06	398435.66	769915.24	N 32 5 35.62	W 103 35 42.79	176.12	5.82
	1686.00	1.03	64.97	1685.89	5.10	-5.09	1.81	0.15	398436.38	769916.66	N 32 5 35.63	W 103 35 42.77	160.42	5.40
	1780.00	0.24	56.57	1779.88	4.64	-4.62	2.74	0.84	398436.85	769917.59	N 32 5 35.63	W 103 35 42.76	149.34	5.37
	1875.00	0.16	215.89	1874.88	4.64	-4.62	2.83	0.41	398436.85	769917.68	N 32 5 35.63	W 103 35 42.76	148.52	5.41
	1969.00	0.83	282.48	1968.88	4.59	-4.58	2.09	0.83	398436.89	769916.94	N 32 5 35.64	W 103 35 42.77	155.50	5.03
	2063.00	2.47	274.63	2062.84	4.26	-4.27	-0.60	1.76	398437.20	769914.25	N 32 5 35.64	W 103 35 42.80	187.99	4.31
	2158.00	3.85	280.90	2157.69	3.46	-3.50	-5.77	1.50	398437.97	769909.08	N 32 5 35.65	W 103 35 42.86	238.78	6.75
	2252.00	5.33	282.20	2251.39	1.89	-1.98	-13.14	1.58	398439.49	769901.71	N 32 5 35.66	W 103 35 42.94	261.44	13.29
	2347.00	6.22	282.75	2345.90	-0.25	0.09	-22.47	0.94	398441.56	769892.38	N 32 5 35.68	W 103 35 43.05	270.23	22.47
	2441.00	7.00	284.55	2439.28	-2.88	2.65	-32.98	0.86	398444.12	769881.87	N 32 5 35.71	W 103 35 43.17	274.60	33.09
	2536.00	6.83	283.92	2533.59	-5.77	5.47	-44.07	0.20	398446.94	769870.78	N 32 5 35.74	W 103 35 43.30	277.07	44.40
	2630.00	7.08	286.17	2626.90	-8.80	8.42	-55.06	0.39	398449.89	769859.80	N 32 5 35.77	W 103 35 43.43	278.70	55.70
	2724.00	7.30	279.60	2720.16	-11.49	11.03	-66.51	0.91	398452.50	769848.34	N 32 5 35.79	W 103 35 43.56	279.42	67.42
	2819.00	7.48	278.28	2814.37	-13.47	12.93	-78.58	0.26	398454.40	769836.27	N 32 5 35.81	W 103 35 43.70	279.34	79.64
	2913.00	7.42	277.69	2907.58	-15.25	14.62	-90.65	0.10	398456.09	769824.20	N 32 5 35.83	W 103 35 43.84	279.16	91.82
	3008.00	7.16	280.11	3001.81	-17.19	16.48	-102.56	0.42	398457.95	769812.30	N 32 5 35.85	W 103 35 43.98	279.13	103.87

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)
	3102.00	7.35	281.69	3095.05	-19.52	18.73	-114.21	0.29	398460.20	769800.64	N 32 5 35.87	W 103 35 44.12	279.31	115.74
	3197.00	7.25	283.15	3189.28	-22.20	21.33	-126.00	0.22	398462.79	769788.85	N 32 5 35.90	W 103 35 44.25	279.61	127.79
	3292.00	7.19	281.14	3283.53	-24.79	23.84	-137.67	0.27	398465.31	769777.18	N 32 5 35.93	W 103 35 44.39	279.82	139.72
	3387.00	7.12	281.26	3377.79	-27.17	26.14	-149.28	0.08	398467.61	769765.58	N 32 5 35.95	W 103 35 44.52	279.93	151.55
	3481.00	7.30	281.06	3471.05	-29.53	28.42	-160.85	0.19	398469.89	769754.00	N 32 5 35.97	W 103 35 44.66	280.02	163.34
	3576.00	7.15	278.18	3565.29	-31.61	30.42	-172.63	0.41	398471.89	769742.23	N 32 5 35.99	W 103 35 44.79	279.99	175.29
	3670.00	6.67	282.90	3658.61	-33.74	32.47	-183.74	0.79	398473.94	769731.12	N 32 5 36.01	W 103 35 44.92	280.02	186.59
	3765.00	6.67	284.48	3752.97	-36.42	35.08	-194.46	0.19	398476.55	769720.40	N 32 5 36.04	W 103 35 45.05	280.23	197.60
	3859.00	6.34	285.82	3846.36	-39.27	37.86	-204.74	0.39	398479.33	769710.12	N 32 5 36.07	W 103 35 45.17	280.48	208.21
	3954.00	6.14	285.68	3940.80	-42.15	40.66	-214.68	0.21	398482.13	769700.18	N 32 5 36.10	W 103 35 45.28	280.73	218.49
	4048.00	6.73	279.47	4034.21	-44.48	42.93	-224.95	0.97	398484.40	769689.91	N 32 5 36.12	W 103 35 45.40	280.80	229.01
	4143.00	7.31	278.98	4128.50	-46.42	44.79	-236.41	0.61	398486.26	769678.45	N 32 5 36.14	W 103 35 45.54	280.73	240.61
	4237.00	6.94	277.21	4221.77	-48.15	46.43	-247.95	0.46	398487.90	769666.91	N 32 5 36.16	W 103 35 45.67	280.61	252.26
	4331.00	6.47	275.36	4315.13	-49.43	47.64	-258.86	0.55	398489.11	769656.00	N 32 5 36.17	W 103 35 45.80	280.43	263.21
	4426.00	7.29	276.42	4409.44	-50.68	48.82	-270.18	0.87	398490.28	769644.68	N 32 5 36.18	W 103 35 45.93	280.24	274.55
	4520.00	7.78	276.05	4502.63	-52.10	50.15	-282.43	0.52	398491.62	769632.43	N 32 5 36.20	W 103 35 46.07	280.07	286.85
	4615.00	7.21	274.24	4596.82	-53.31	51.27	-294.77	0.65	398492.74	769620.09	N 32 5 36.21	W 103 35 46.21	279.87	299.20
	4709.00	6.69	271.21	4690.13	-53.94	51.82	-306.13	0.68	398493.29	769608.73	N 32 5 36.21	W 103 35 46.34	279.61	310.48
	4803.00	6.48	271.72	4783.51	-54.29	52.10	-316.90	0.23	398493.57	769597.96	N 32 5 36.22	W 103 35 46.47	279.34	321.16
	4827.00	6.35	269.13	4807.36	-54.33	52.12	-319.58	1.32	398493.59	769595.28	N 32 5 36.22	W 103 35 46.50	279.26	323.81
	5002.00	6.39	274.03	4981.28	-55.00	52.66	-338.97	0.31	398494.12	769575.89	N 32 5 36.22	W 103 35 46.73	278.83	343.04
	5096.00	7.26	282.87	5074.61	-56.76	54.35	-349.98	1.45	398495.81	769564.88	N 32 5 36.24	W 103 35 46.85	278.83	354.18
	5191.00	7.52	282.22	5168.83	-59.50	57.00	-361.91	0.29	398498.47	769552.95	N 32 5 36.27	W 103 35 46.99	278.95	366.37
	5285.00	7.62	281.83	5262.01	-62.16	59.58	-374.02	0.12	398501.05	769540.84	N 32 5 36.30	W 103 35 47.13	279.05	378.74
	5380.00	7.81	281.50	5356.15	-64.83	62.16	-386.51	0.21	398503.63	769528.35	N 32 5 36.32	W 103 35 47.28	279.14	391.48
	5474.00	7.87	282.00	5449.27	-67.53	64.77	-399.07	0.10	398506.24	769515.80	N 32 5 36.35	W 103 35 47.42	279.22	404.29
	5568.00	7.95	280.94	5542.37	-70.18	67.34	-411.74	0.18	398508.81	769503.12	N 32 5 36.37	W 103 35 47.57	279.29	417.21
	5663.00	8.05	279.54	5636.45	-72.62	69.69	-424.75	0.23	398511.16	769490.11	N 32 5 36.40	W 103 35 47.72	279.32	430.43
	5757.00	6.97	273.11	5729.64	-74.11	71.09	-436.94	1.45	398512.56	769477.93	N 32 5 36.41	W 103 35 47.86	279.24	442.68
	5851.00	5.89	260.14	5823.06	-73.66	70.57	-447.39	1.92	398512.04	769467.48	N 32 5 36.41	W 103 35 47.99	278.96	452.92
	5946.00	4.66	241.49	5917.66	-71.04	67.90	-455.58	2.20	398509.36	769459.28	N 32 5 36.38	W 103 35 48.08	278.48	460.61
	6040.00	3.61	222.95	6011.42	-67.09	63.91	-460.95	1.79	398505.38	769453.91	N 32 5 36.34	W 103 35 48.14	277.89	465.36
	6134.00	2.11	193.17	6105.30	-63.26	60.06	-463.36	2.20	398501.52	769451.50	N 32 5 36.31	W 103 35 48.17	277.38	467.24
	6229.00	1.55	166.86	6200.25	-60.30	57.10	-463.47	1.05	398498.57	769451.39	N 32 5 36.28	W 103 35 48.17	277.02	466.98
	6323.00	0.79	131.23	6294.23	-58.63	55.44	-462.69	1.08	398496.90	769452.17	N 32 5 36.26	W 103 35 48.16	276.83	466.00
	6417.00	1.15	87.26	6388.22	-58.24	55.05	-461.26	0.85	398496.52	769453.60	N 32 5 36.26	W 103 35 48.15	276.81	464.54
	6511.00	1.08	82.07	6482.20	-58.40	55.22	-459.45	0.13	398496.69	769455.42	N 32 5 36.26	W 103 35 48.13	276.85	462.75
	6606.00	1.17	94.21	6577.19	-58.44	55.27	-457.59	0.27	398496.74	769457.27	N 32 5 36.26	W 103 35 48.11	276.89	460.92
	6700.00	1.12	70.75	6671.17	-58.66	55.51	-455.77	0.50	398496.97	769459.10	N 32 5 36.26	W 103 35 48.08	276.94	459.13
	6794.00	1.10	69.29	6765.15	-59.27	56.13	-454.06	0.04	398497.60	769460.81	N 32 5 36.27	W 103 35 48.06	277.05	457.51
	6889.00	1.05	65.97	6860.13	-59.93	56.81	-452.41	0.08	398498.27	769462.46	N 32 5 36.27	W 103 35 48.04	277.16	455.96
	6983.00	0.89	73.14	6954.12	-60.48	57.37	-450.92	0.21	398498.84	769463.94	N 32 5 36.28	W 103 35 48.03	277.25	454.56
	7077.00	0.93	78.10	7048.11	-60.84	57.74	-449.48	0.09	398499.21	769465.39	N 32 5 36.28	W 103 35 48.01	277.32	453.17
	7172.00	0.97	78.37	7143.10	-61.15	58.06	-447.94	0.04	398499.53	769466.93	N 32 5 36.29	W 103 35 47.99	277.39	451.68
	7266.00	0.96	79.93	7237.08	-61.44	58.36	-446.38	0.03	398499.82	769468.48	N 32 5 36.29	W 103 35 47.97	277.45	450.18
	7360.00	0.90	72.20	7331.07	-61.79	58.72	-444.90	0.15	398500.19	769469.96	N 32 5 36.29	W 103 35 47.96	277.52	448.76
	7455.00	1.01	71.57	7426.06	-62.28	59.21	-443.40	0.12	398500.68	769471.47	N 32 5 36.30	W 103 35 47.94	277.61	447.33
	7549.00	1.09	66.64	7520.04	-62.88	59.83	-441.79	0.13	398501.30	769473.07	N 32 5 36.30	W 103 35 47.92	277.71	445.82
	7644.00	0.85	338.09	7615.03	-63.89	60.84	-441.22	1.44	398502.31	769473.64	N 32 5 36.31	W 103 35 47.91	277.85	445.40
	7738.00	1.80	309.63	7709.01	-65.49	62.43	-442.62	1.20	398503.90	769472.24	N 32 5 36.33	W 103 35 47.93	278.03	447.00
	7832.00	1.61	307.41	7802.96	-67.25	64.17	-444.81	0.21	398505.64	769470.06	N 32 5 36.35	W 103 35 47.96	278.21	449.41
	7926.00	1.50	302.76	7896.93	-68.73	65.64	-446.89	0.18	398507.11	769467.97	N 32 5 36.36	W 103 35 47.98	278.36	451.69
	8021.00	1.31	303.19	7991.90	-70.01	66.91	-448.85	0.20	398508.38	769466.02	N 32 5 36.37	W 103 35 48.00	278.48	453.80
	8115.00	1.06	300.35	8085.88	-71.05	67.94	-450.49	0.27	398509.40	769464.37	N 32 5 36.38	W 103 35 48.02	278.58	455.59
	8209.00	0.71	300.37	8179.87	-71.79	68.67	-451.75	0.37	398510.14	769463.12	N 32 5 36.39	W 103 35 48.04	278.64	456.94
	8303.00	0.65	277.69	8273.86	-72.16	69.04	-452.78	0.29	398510.50	769462.09	N 32 5 36.39	W 103 35 48.05	278.67	458.01
	8398.00	0.48	271.38	8368.86	-72.25	69.12	-453.71	0.19	398510.59	769461.15	N 32 5 36.40	W 103 35 48.06	278.66	458.94
	8492.00	0.46	262.94	8462.86	-72.22	69.08	-454.48	0.08	398510.55	769460.39	N 32 5 36.39	W 103 35 48.07	278.64	459.70
	8587.00	0.64	237.75	8557.85	-71.90	68.75	-455.31	0.31	398510.22	769459.56	N 32 5 36.39	W 103 35 48.08	278.59	460.47
	8681.00	0.68	225.19	8651.85	-71.23	68.08	-456.15	0.16	398509.55	769458.72	N 32 5 36.39	W 103 35 48.09	278.49	461.20
	8776.00	0.86	216.33	8746.84	-70.26	67.11	-456.97	0.23	398508.57	769457.90	N 32 5 36.38	W 103 35 48.10	278.35	461.87
	8870.00	0.93	207.97	8840.83	-69.03	65.86	-457.74	0.16	398507.33	769457.12	N 32 5 36.36	W 103 35 48.11	278.19	462.46

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)
	8964.00	0.98	204.25	8934.81	-67.62	64.46	-458.43	0.08	398505.92	769456.43	N 32 5 36.35	W 103 35 48.11	278.00	462.94
	9059.00	0.85	205.26	9029.80	-66.25	63.08	-459.07	0.14	398504.55	769455.80	N 32 5 36.34	W 103 35 48.12	277.82	463.38
	9153.00	1.13	206.79	9123.79	-64.80	61.62	-459.78	0.30	398503.09	769455.08	N 32 5 36.32	W 103 35 48.13	277.63	463.89
	9248.00	1.20	194.90	9218.77	-63.00	59.82	-460.46	0.26	398501.29	769454.41	N 32 5 36.30	W 103 35 48.14	277.40	464.33
	9342.00	1.29	193.78	9312.74	-61.03	57.84	-460.96	0.10	398499.31	769453.90	N 32 5 36.28	W 103 35 48.14	277.15	464.58
	9436.00	0.67	180.38	9406.73	-59.45	56.27	-461.22	0.70	398497.74	769453.65	N 32 5 36.27	W 103 35 48.15	276.96	464.64
	9531.00	0.53	142.66	9501.73	-58.55	55.36	-460.96	0.43	398496.83	769453.91	N 32 5 36.26	W 103 35 48.14	276.85	464.27
	9625.00	0.49	194.11	9595.72	-57.81	54.63	-460.79	0.47	398496.10	769454.07	N 32 5 36.25	W 103 35 48.14	276.76	464.02
	9720.00	0.63	243.84	9690.72	-57.19	54.00	-461.36	0.51	398495.47	769453.51	N 32 5 36.25	W 103 35 48.15	276.68	464.51
	9908.00	1.35	285.50	9878.69	-57.35	54.14	-464.42	0.52	398495.61	769450.44	N 32 5 36.25	W 103 35 48.18	276.65	467.57
	10003.00	1.32	303.22	9973.67	-58.26	55.04	-466.41	0.43	398496.51	769448.45	N 32 5 36.26	W 103 35 48.21	276.73	469.65
	10097.00	1.38	307.63	10067.64	-59.56	56.32	-468.22	0.13	398497.79	769446.65	N 32 5 36.27	W 103 35 48.23	276.86	471.59
	10192.00	1.21	302.16	10162.61	-60.80	57.55	-469.97	0.22	398499.02	769444.89	N 32 5 36.28	W 103 35 48.25	276.98	473.48
	10286.00	1.03	312.68	10256.60	-61.91	58.66	-471.43	0.29	398500.12	769443.43	N 32 5 36.29	W 103 35 48.27	277.09	475.07
	10381.00	1.39	303.08	10351.58	-63.13	59.86	-473.03	0.43	398501.33	769441.84	N 32 5 36.31	W 103 35 48.28	277.21	476.80
	10456.00	1.44	298.03	10426.55	-64.08	60.80	-474.62	0.18	398502.27	769440.25	N 32 5 36.31	W 103 35 48.30	277.30	478.50
KOP [327' FNL, 1889' FWL] First SLB Survey	10534.00	2.33	192.79	10504.53	-63.00	59.72	-475.84	3.90	398501.18	769439.03	N 32 5 36.30	W 103 35 48.32	277.15	479.57
	10566.00	6.23	185.98	10536.43	-60.64	57.35	-476.16	12.27	398498.82	769438.70	N 32 5 36.28	W 103 35 48.32	276.87	479.60
	10597.00	10.81	178.98	10567.08	-56.06	52.77	-476.29	15.12	398494.24	769438.58	N 32 5 36.24	W 103 35 48.32	276.32	479.20
	10629.00	13.38	180.75	10598.37	-49.36	46.07	-476.28	8.11	398487.54	769438.59	N 32 5 36.17	W 103 35 48.32	275.52	478.50
	10692.00	18.33	183.59	10658.95	-32.18	28.88	-477.00	7.95	398470.35	769437.87	N 32 5 36.00	W 103 35 48.33	273.46	477.87
	10723.00	20.11	180.20	10688.23	-21.99	18.69	-477.32	6.77	398460.16	769437.55	N 32 5 35.90	W 103 35 48.34	272.24	477.69
	10762.00	22.64	182.13	10724.54	-7.78	4.48	-477.62	6.73	398445.95	769437.24	N 32 5 35.76	W 103 35 48.34	270.54	477.64
	10817.00	28.14	180.15	10774.21	15.78	-19.09	-478.05	10.12	398422.38	769436.81	N 32 5 35.52	W 103 35 48.35	267.71	478.43
	10837.00	29.87	172.56	10791.71	25.45	-28.75	-477.42	20.32	398412.72	769437.45	N 32 5 35.43	W 103 35 48.34	266.55	478.28
	10894.00	37.93	172.29	10838.98	56.96	-60.23	-473.22	14.14	398381.24	769441.64	N 32 5 35.12	W 103 35 48.30	262.75	477.04
	10912.00	40.79	173.56	10852.90	68.30	-71.56	-471.82	16.51	398369.91	769443.04	N 32 5 35.00	W 103 35 48.28	261.38	477.22
	10958.00	48.66	177.12	10885.56	100.55	-103.79	-469.26	17.95	398337.68	769445.60	N 32 5 34.69	W 103 35 48.25	257.53	480.61
	11006.00	56.46	179.72	10914.72	138.62	-141.86	-468.26	16.81	398299.62	769446.61	N 32 5 34.31	W 103 35 48.24	253.15	489.27
First Take Point [569' FNL, 1895' FWL]	11053.00	61.82	181.57	10938.82	178.94	-182.18	-468.73	11.89	398259.29	769446.13	N 32 5 33.91	W 103 35 48.25	248.76	502.89
	11101.00	69.07	181.70	10958.75	222.54	-225.80	-469.98	15.11	398215.68	769444.89	N 32 5 33.48	W 103 35 48.27	244.34	521.40
	11147.00	77.80	181.04	10971.86	266.57	-269.83	-471.02	19.03	398171.65	769443.84	N 32 5 33.04	W 103 35 48.29	240.19	542.84
	11195.00	82.82	181.79	10979.93	313.85	-317.12	-472.19	10.57	398124.36	769442.67	N 32 5 32.57	W 103 35 48.30	236.12	568.80
	11242.00	85.19	181.90	10984.84	360.55	-363.83	-473.70	5.05	398077.65	769441.17	N 32 5 32.11	W 103 35 48.33	232.47	597.30
	11290.00	87.38	178.81	10987.95	408.44	-411.72	-473.99	7.88	398029.76	769440.87	N 32 5 31.64	W 103 35 48.33	229.02	627.84
	11320.00	88.11	176.14	10989.13	438.39	-441.67	-472.67	9.22	397999.82	769442.19	N 32 5 31.34	W 103 35 48.32	226.94	646.91
	11443.00	88.52	177.81	10992.75	561.20	-564.44	-466.19	1.40	397877.05	769448.68	N 32 5 30.13	W 103 35 48.25	219.55	732.06
	11537.00	88.89	179.93	10994.87	655.16	-658.39	-464.33	2.29	397783.10	769450.53	N 32 5 29.20	W 103 35 48.24	215.19	805.66
	11631.00	88.58	179.77	10996.95	749.14	-752.37	-464.09	0.37	397689.13	769450.78	N 32 5 28.27	W 103 35 48.24	211.67	883.99
	11726.00	88.91	179.67	10999.03	844.12	-847.34	-463.62	0.36	397594.16	769451.24	N 32 5 27.33	W 103 35 48.25	208.69	965.89
	11820.00	89.83	180.17	11000.06	938.11	-941.33	-463.49	1.11	397500.17	769451.37	N 32 5 26.40	W 103 35 48.25	206.21	1049.25
	11914.00	89.77	180.48	11000.39	1032.10	-1035.33	-464.03	0.34	397406.17	769450.84	N 32 5 25.47	W 103 35 48.27	204.14	1134.56
	12008.00	89.88	180.94	11000.68	1126.08	-1129.32	-465.19	0.50	397312.18	769449.68	N 32 5 24.54	W 103 35 48.29	202.39	1221.38
	12103.00	89.83	181.44	11000.92	1221.05	-1224.30	-467.16	0.53	397217.21	769447.70	N 32 5 23.60	W 103 35 48.32	200.89	1310.40
	12197.00	90.24	179.79	11000.86	1315.03	-1318.29	-468.17	1.81	397123.22	769446.69	N 32 5 22.67	W 103 35 48.34	199.55	1398.96
	12291.00	89.76	179.41	11000.86	1409.03	-1412.29	-467.52	0.65	397029.23	769447.35	N 32 5 21.74	W 103 35 48.34	198.32	1487.66
	12385.00	89.77	179.10	11001.25	1503.02	-1506.28	-466.29	0.33	396935.24	769448.57	N 32 5 20.81	W 103 35 48.33	197.20	1576.81
	12480.00	89.82	179.08	11001.59	1598.02	-1601.27	-464.78	0.06	396840.25	769450.08	N 32 5 19.87	W 103 35 48.32	196.19	1667.36
	12574.00	89.81	178.60	11001.89	1692.01	-1695.25	-462.88	0.51	396746.28	769451.98	N 32 5 18.94	W 103 35 48.31	195.27	1757.31
	12669.00	90.42	178.77	11001.70	1787.00	-1790.22	-460.70	0.67	396651.30	769454.16	N 32 5 18.00	W 103 35 48.29	194.43	1848.55
	12763.00	90.65	180.18	11000.82	1880.99	-1884.21	-459.84	1.52	396557.32	769455.02	N 32 5 17.07	W 103 35 48.29	193.71	1939.51
	12858.00	90.80	178.82	10999.62	1975.98	-1979.20	-459.01	1.44	396462.33	769455.85	N 32 5 16.13	W 103 35 48.28	193.06	2031.73
	12952.00	90.88	179.04	10998.24	2069.96	-2073.17	-457.26	0.25	396368.36	769457.61	N 32 5 15.20	W 103 35 48.27	192.44	2123.00
	13046.00	90.82	178.80	10996.85	2163.95	-2167.15	-455.48	0.26	396274.39	769459.38	N 32 5 14.27	W 103 35 48.26	191.87	2214.50
	13141.00	91.04	178.12	10995.31	2258.92	-2262.10	-452.93	0.75	396179.45	769461.93	N 32 5 13.33	W 103 35 48.24	191.32	2307.00
	13235.00	90.87	178.77	10993.74	2352.88	-2356.05	-450.38	0.71	396085.50	769464.48	N 32 5 12.40	W 103 35 48.21	190.82	2398.71
	13329.00	90.83	178.98	10992.34	2446.86	-2450.02	-448.54	0.23	395991.53	769466.33	N 32 5 11.47	W 103 35 48.20	190.37	2490.74

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)
	13424.00	90.83	179.11	10990.97	2541.85	-2545.00	-446.95	0.14	395896.55	769467.91	N 32 5 10.53	W 103 35 48.19	189.96	2583.95
	13518.00	90.83	179.25	10989.61	2635.84	-2638.98	-445.61	0.15	395802.58	769469.26	N 32 5 9.60	W 103 35 48.18	189.58	2676.34
	13612.00	90.63	179.57	10988.41	2729.83	-2732.97	-444.64	0.40	395708.59	769470.22	N 32 5 8.67	W 103 35 48.18	189.24	2768.90
	13706.00	91.00	178.48	10987.07	2823.81	-2826.94	-443.04	1.22	395614.62	769471.82	N 32 5 7.74	W 103 35 48.16	188.91	2861.45
	13801.00	90.77	179.45	10985.60	2918.79	-2921.91	-441.32	1.05	395519.65	769473.54	N 32 5 6.80	W 103 35 48.15	188.59	2955.06
	13895.00	90.74	179.77	10984.37	3012.79	-3015.90	-440.69	0.34	395425.67	769474.18	N 32 5 5.87	W 103 35 48.15	188.31	3047.93
	13990.00	90.93	178.79	10982.98	3107.77	-3110.89	-439.49	1.05	395330.69	769475.37	N 32 5 4.93	W 103 35 48.15	188.04	3141.78
	14084.00	90.85	178.92	10981.52	3201.75	-3204.86	-437.61	0.16	395236.72	769477.25	N 32 5 4.00	W 103 35 48.13	187.78	3234.59
	14178.00	90.81	178.82	10980.16	3295.74	-3298.83	-435.76	0.11	395142.75	769479.10	N 32 5 3.07	W 103 35 48.12	187.52	3327.48
	14273.00	90.82	178.58	10978.81	3390.71	-3393.79	-433.60	0.25	395047.79	769481.26	N 32 5 2.13	W 103 35 48.10	187.28	3421.38
	14367.00	90.70	179.17	10977.56	3484.70	-3487.77	-431.76	0.64	394953.82	769483.10	N 32 5 1.20	W 103 35 48.09	187.06	3514.39
	14462.00	90.77	178.51	10976.34	3579.68	-3582.74	-429.84	0.70	394858.85	769485.03	N 32 5 0.26	W 103 35 48.07	186.84	3608.43
	14556.00	90.41	178.57	10975.37	3673.66	-3676.70	-427.44	0.39	394764.89	769487.42	N 32 4 59.33	W 103 35 48.05	186.63	3701.47
	14650.00	90.62	177.36	10974.53	3767.62	-3770.64	-424.10	1.31	394670.96	769490.76	N 32 4 58.40	W 103 35 48.02	186.42	3794.41
	14745.00	90.29	177.96	10973.78	3862.56	-3865.55	-420.23	0.72	394576.04	769494.64	N 32 4 57.46	W 103 35 47.98	186.20	3888.33
	14839.00	90.25	177.55	10973.33	3956.51	-3959.48	-416.54	0.44	394482.12	769498.32	N 32 4 56.53	W 103 35 47.95	186.01	3981.33
	14934.00	90.31	178.14	10972.87	4051.46	-4054.41	-412.97	0.62	394387.19	769501.89	N 32 4 55.59	W 103 35 47.91	185.82	4075.39
	15028.00	89.86	180.11	10972.73	4145.45	-4148.40	-411.54	2.15	394293.21	769503.33	N 32 4 54.66	W 103 35 47.90	185.67	4168.76
	15123.00	90.25	181.02	10972.64	4240.44	-4243.39	-412.47	1.04	394198.22	769502.39	N 32 4 53.72	W 103 35 47.92	185.55	4263.39
	15218.00	90.22	181.52	10972.25	4335.40	-4338.37	-414.58	0.53	394103.25	769500.29	N 32 4 52.78	W 103 35 47.95	185.46	4358.13
	15312.00	90.32	181.23	10971.80	4429.35	-4432.34	-416.83	0.33	394009.28	769498.03	N 32 4 51.85	W 103 35 47.99	185.37	4451.90
	15406.00	90.37	181.16	10971.24	4523.31	-4526.32	-418.79	0.09	393915.30	769496.07	N 32 4 50.92	W 103 35 48.02	185.29	4545.65
	15501.00	90.26	180.97	10970.72	4618.28	-4621.30	-420.56	0.23	393820.32	769494.30	N 32 4 49.98	W 103 35 48.05	185.20	4640.40
	15595.00	90.37	180.95	10970.20	4712.25	-4715.28	-422.13	0.12	393726.34	769492.73	N 32 4 49.05	W 103 35 48.07	185.12	4734.14
	15689.00	90.31	181.11	10969.64	4806.22	-4809.27	-423.82	0.18	393632.36	769491.04	N 32 4 48.12	W 103 35 48.10	185.04	4827.91
Private Leaseline Crossing [1908' FWL]	15773.90	90.36	180.86	10969.14	4891.10	-4894.15	-425.28	0.30	393547.48	769489.58	N 32 4 47.28	W 103 35 48.12	184.97	4912.60
	15783.00	90.37	180.83	10969.08	4900.19	-4903.25	-425.42	0.30	393538.38	769489.45	N 32 4 47.19	W 103 35 48.12	184.96	4921.67
	15878.00	90.28	179.34	10968.55	4995.19	-4998.25	-425.56	1.57	393443.39	769489.31	N 32 4 46.25	W 103 35 48.13	184.87	5016.33
	15973.00	90.31	179.71	10968.06	5090.19	-5093.24	-424.77	0.39	393348.40	769490.10	N 32 4 45.31	W 103 35 48.13	184.77	5110.92
	16067.00	90.35	179.63	10967.51	5184.18	-5187.24	-424.23	0.10	393254.40	769490.64	N 32 4 44.38	W 103 35 48.13	184.68	5204.56
	16162.00	90.24	179.73	10967.03	5279.18	-5282.24	-423.70	0.16	393159.41	769491.17	N 32 4 43.44	W 103 35 48.14	184.59	5299.20
	16256.00	90.21	181.40	10966.66	5373.16	-5376.23	-424.62	1.78	393065.42	769490.24	N 32 4 42.51	W 103 35 48.15	184.52	5392.97
	16351.00	90.36	181.75	10966.18	5468.11	-5471.19	-427.23	0.40	392970.46	769487.63	N 32 4 41.57	W 103 35 48.19	184.47	5487.85
	16445.00	90.28	181.31	10965.66	5562.05	-5565.16	-429.74	0.48	392876.50	769485.12	N 32 4 40.64	W 103 35 48.23	184.42	5581.72
	16539.00	90.39	181.56	10965.11	5656.00	-5659.12	-432.10	0.29	392782.53	769482.77	N 32 4 39.71	W 103 35 48.26	184.37	5675.60
	16634.00	90.35	181.91	10964.50	5750.93	-5754.08	-434.97	0.37	392687.58	769479.89	N 32 4 38.77	W 103 35 48.30	184.32	5770.50
	16728.00	90.50	179.37	10963.80	5844.91	-5848.06	-436.02	2.71	392593.60	769478.84	N 32 4 37.84	W 103 35 48.32	184.26	5864.29
	16822.00	90.11	179.75	10963.30	5938.91	-5942.06	-435.30	0.58	392499.61	769479.56	N 32 4 36.91	W 103 35 48.32	184.19	5957.98
	16916.00	90.16	180.36	10963.08	6032.90	-6036.06	-435.39	0.65	392405.61	769479.47	N 32 4 35.98	W 103 35 48.33	184.13	6051.74
	17011.00	90.75	178.92	10962.32	6127.90	-6131.05	-434.80	1.64	392310.62	769480.07	N 32 4 35.04	W 103 35 48.33	184.06	6146.45
Private - NMNM1060404 Crossing [1889' FWL]	17096.60	90.47	179.69	10961.41	6213.49	-6216.64	-433.76	0.96	392225.04	769481.10	N 32 4 34.20	W 103 35 48.33	183.99	6231.75
	17105.00	90.44	179.77	10961.35	6221.89	-6225.04	-433.72	0.96	392216.64	769481.14	N 32 4 34.11	W 103 35 48.33	183.99	6240.13
	17200.00	90.26	180.62	10960.77	6316.88	-6320.03	-434.04	0.91	392121.64	769480.82	N 32 4 33.17	W 103 35 48.34	183.93	6334.92
	17294.00	90.27	178.90	10960.33	6410.88	-6414.03	-433.65	1.83	392027.65	769481.21	N 32 4 32.24	W 103 35 48.34	183.87	6428.67
	17388.00	90.33	178.55	10959.84	6504.87	-6508.00	-431.56	0.38	391933.68	769483.30	N 32 4 31.31	W 103 35 48.32	183.79	6522.30
	17482.00	90.50	178.85	10959.16	6598.85	-6601.98	-429.43	0.37	391839.71	769485.44	N 32 4 30.38	W 103 35 48.31	183.72	6615.93
	17577.00	90.41	179.54	10958.40	6693.85	-6696.96	-428.09	0.73	391744.73	769486.77	N 32 4 29.44	W 103 35 48.30	183.66	6710.63
	17671.00	90.18	178.92	10957.92	6787.84	-6790.95	-426.83	0.70	391650.74	769488.04	N 32 4 28.51	W 103 35 48.29	183.60	6804.35
	17766.00	90.25	179.91	10957.56	6882.84	-6885.95	-425.86	1.04	391555.75	769489.00	N 32 4 27.57	W 103 35 48.29	183.54	6899.10
	17955.00	90.77	179.71	10955.88	7071.83	-7074.94	-425.23	0.29	391366.77	769489.63	N 32 4 25.70	W 103 35 48.30	183.44	7087.71
	18049.00	90.32	179.39	10954.99	7165.83	-7168.93	-424.49	0.59	391272.78	769490.37	N 32 4 24.77	W 103 35 48.29	183.39	7181.49
	18144.00	90.28	178.10	10954.49	7260.81	-7263.90	-422.41	1.36	391177.81	769492.45	N 32 4 23.83	W 103 35 48.28	183.33	7276.18
	18238.00	90.17	179.59	10954.12	7354.80	-7357.88	-420.52	1.59	391083.83	769494.35	N 32 4 22.90	W 103 35 48.26	183.27	7369.89
	18332.00	90.49	178.51	10953.58	7448.79	-7451.87	-418.96	1.20	390989.85	769495.90	N 32 4 21.97	W 103 35 48.25	183.22	7463.63

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)
NMNM01060404														
-														
NMNM0160973 Crossing [1897' FWL]	18419.10	90.24	178.55	10953.02	7535.88	-7538.94	-416.72	0.29	390902.78	769498.14	N 32 4 21.11	W 103 35 48.23	183.16	7550.44
	18427.00	90.22	178.55	10952.99	7543.77	-7546.83	-416.52	0.29	390894.89	769498.34	N 32 4 21.03	W 103 35 48.23	183.16	7558.32
	18521.00	90.57	180.11	10952.34	7637.77	-7640.82	-415.42	1.70	390800.90	769499.44	N 32 4 20.10	W 103 35 48.23	183.11	7652.11
	18615.00	90.13	179.53	10951.77	7731.76	-7734.82	-415.13	0.77	390706.91	769499.73	N 32 4 19.17	W 103 35 48.23	183.07	7745.95
	18710.00	89.68	178.61	10951.93	7826.76	-7829.80	-413.59	1.08	390611.92	769501.28	N 32 4 18.23	W 103 35 48.22	183.02	7840.72
	18804.00	89.74	178.37	10952.40	7920.74	-7923.77	-411.11	0.26	390517.96	769503.75	N 32 4 17.30	W 103 35 48.20	182.97	7934.43
	18898.00	89.66	180.64	10952.89	8014.73	-8017.76	-410.30	2.42	390423.98	769504.57	N 32 4 16.37	W 103 35 48.20	182.93	8028.25
	18992.00	89.70	179.93	10953.42	8108.72	-8111.76	-410.77	0.76	390329.98	769504.10	N 32 4 15.44	W 103 35 48.21	182.90	8122.15
	19086.00	89.82	178.63	10953.81	8202.72	-8205.75	-409.58	1.39	390236.00	769505.28	N 32 4 14.51	W 103 35 48.20	182.86	8215.96
	19181.00	89.72	179.39	10954.19	8297.71	-8300.73	-407.94	0.81	390141.01	769506.92	N 32 4 13.57	W 103 35 48.19	182.81	8310.75
	19275.00	89.84	180.37	10954.55	8391.71	-8394.73	-407.75	1.05	390047.02	769507.12	N 32 4 12.64	W 103 35 48.20	182.78	8404.62
	19370.00	90.47	178.97	10954.30	8486.71	-8489.72	-407.20	1.62	389952.03	769507.66	N 32 4 11.70	W 103 35 48.20	182.75	8499.48
	19464.00	89.55	178.93	10954.28	8580.70	-8583.71	-405.48	0.98	389858.05	769509.39	N 32 4 10.77	W 103 35 48.19	182.70	8593.28
	19558.00	89.85	178.12	10954.77	8674.68	-8677.67	-403.06	0.92	389764.08	769511.81	N 32 4 9.84	W 103 35 48.16	182.66	8687.03
	19653.00	89.74	180.17	10955.11	8769.67	-8772.66	-401.64	2.16	389669.10	769513.22	N 32 4 8.90	W 103 35 48.16	182.62	8781.85
	19747.00	89.92	180.97	10955.39	8863.66	-8866.65	-402.57	0.87	389575.11	769512.29	N 32 4 7.97	W 103 35 48.17	182.60	8875.79
	19841.00	89.56	179.52	10955.82	8957.65	-8960.65	-402.98	1.59	389481.12	769511.89	N 32 4 7.04	W 103 35 48.19	182.57	8969.70
	19936.00	90.29	179.44	10955.94	9052.65	-9055.64	-402.11	0.77	389386.13	769512.75	N 32 4 6.10	W 103 35 48.18	182.54	9064.57
	20022.00	89.80	180.21	10955.88	9138.64	-9141.64	-401.85	1.06	389300.13	769513.01	N 32 4 5.25	W 103 35 48.19	182.52	9150.47
	20112.00	90.15	177.68	10955.91	9228.63	-9231.62	-400.19	2.84	389210.16	769514.67	N 32 4 4.36	W 103 35 48.18	182.48	9240.29
	20204.00	89.60	175.48	10956.12	9320.50	-9323.45	-394.71	2.46	389118.33	769520.16	N 32 4 3.45	W 103 35 48.12	182.42	9331.80
	20294.00	89.56	176.41	10956.77	9410.31	-9413.22	-388.34	1.03	389028.56	769526.52	N 32 4 2.56	W 103 35 48.05	182.36	9421.23
	20384.00	89.41	178.43	10957.58	9500.24	-9503.12	-384.29	2.25	388938.66	769530.57	N 32 4 1.67	W 103 35 48.01	182.32	9510.89
	20474.00	89.08	181.87	10958.77	9590.21	-9593.10	-384.53	3.84	388848.69	769530.34	N 32 4 0.78	W 103 35 48.02	182.30	9600.80
	20565.00	88.92	185.04	10960.36	9680.98	-9683.91	-390.01	3.49	388757.88	769524.85	N 32 3 59.88	W 103 35 48.09	182.31	9691.76
	20657.00	90.72	184.65	10960.65	9772.59	-9775.57	-397.78	2.00	388666.22	769517.08	N 32 3 58.98	W 103 35 48.19	182.33	9783.66
	20748.00	93.46	181.40	10957.33	9863.35	-9866.37	-402.58	4.67	388575.43	769512.28	N 32 3 58.08	W 103 35 48.25	182.34	9874.58
	20840.00	93.98	178.07	10951.36	9955.14	-9958.16	-402.16	3.66	388483.64	769512.71	N 32 3 57.17	W 103 35 48.26	182.31	9966.27
Last Take Point [185' FSL, 1895' FWL]	20868.00	93.71	176.75	10949.48	9983.06	-9986.07	-400.89	4.81	388455.73	769513.97	N 32 3 56.89	W 103 35 48.24	182.30	9994.11
Final Survey TD, PTB [98.7' FSL, 1902' FWL]]	20927.00	93.12	173.97	10945.97	10041.78	-10044.76	-396.13	4.81	388397.04	769518.73	N 32 3 56.31	W 103 35 48.19	182.26	10052.57
	20955.00	93.12	173.97	10944.44	10069.61	-10072.57	-393.19	0.00	388369.24	769521.67	N 32 3 56.04	W 103 35 48.16	182.24	10080.24

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	26.000	1/98.425	17.500	13.375	NAL_MWD_IFR1+MS-Depth Only	Red Hills 32-5 Federal Com #156H / Final Surveys - Cimarex Red Hills 32-5 Fed Com #156H MWD Off-
	1	26.000	26.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS-Depth Only	Red Hills 32-5 Federal Com #156H / Final Surveys - Cimarex Red Hills 32-5 Fed Com #156H MWD Off-
	1	26.000	1050.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS	Red Hills 32-5 Federal Com #156H / Final Surveys - Cimarex Red Hills
	1	1050.000	4893.000	Act Stns	12.250	9.625	NAL_MWD_IFR1+MS	Red Hills 32-5 Federal Com #156H / Final Surveys - Cimarex Red Hills

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)
		1	4893.000	11377.000	Act Stns	8.750	7.000	NAL_MWD_IFR1+MS			Red Hills 32-5 Federal Com #156H / Final Surveys - Cimarex Red Hills			
		1	11377.000	20955.000	Act Stns	8.500	7.000	NAL_MWD_IFR1+MS			Red Hills 32-5 Federal Com #156H / Final Surveys - Cimarex Red Hills			





Grid North
Tot Corr (M->G 6.165°)
Mag Dec (6.557°)
Grid Conv (0.392°)

CONTROLLED													
Plan ref Drawing ref Copy number Date	Final Surveys - Cimarosa Red Hills 32 & Fed Com #156H MWD 01-20955ft (Surcon Corrected) of 3 17-Dec-2020												
<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 5%;">1</td><td style="width: 75%;">Client</td><td style="width: 20%;"></td></tr> <tr><td>2</td><td>Client</td><td></td></tr> <tr><td>3</td><td>Office</td><td></td></tr> <tr><td>4</td><td>Office</td><td></td></tr> </table>	1	Client		2	Client		3	Office		4	Office		Copy number for
1	Client												
2	Client												
3	Office												
4	Office												



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

Well Name: RED HILLS 32-5 FEDERAL COM	Well Location: T25S / R33E / SEC 32 / NENW / 32.093245 / -103.59522	County or Parish/State: LEA / NM
Well Number: 156H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0106040A	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254629500X1	Well Status: Approved Application for Permit to Drill	Operator: CIMAREX ENERGY COMPANY OF COLORADO

Subsequent Report

Type of Submission: Subsequent Report	Type of Action: Hydraulic Fracturing
Date Sundry Submitted: 02/01/2021	Time Sundry Submitted: 06:44
Date Operation Actually Began: 02/06/2021	

Actual Procedure: Cimarex completed this well as follows: 09/09/2020 Run logs, TOC @ 4300'. Test csg to 9500 psi for 30 min. Good test. 10/06/2020 to 10/24/2020 Perf Bone Spring @ 11,053'-20,868', 1900 holes, .42". Frac w/ 502,299 bbls total fluid & 25,109,684# sand. 11/20/2020 DO plugs. 11/22/2020 Finish DO plugs & CO to PBTD @ 20,894'. SI well. 11/30/2020 Turn to production.

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: VASQUEZ	Signed on: FEB 01, 2021 06:34 PM
Name: CIMAREX ENERGY COMPANY OF COLORADO	
Title: Regulatory Analyst	
Street Address: 600 N MARIENFELD STREET SUITE 600	
City: MIDLAND	State: TX
Phone: (432) 571-7800	
Email address: TSTATHEM@CIMAREX.COM	

Field Representative

Representative Name: Fatima Vasquez		
Street Address: 600 N Marienfeld Street, Suite 600		
City: Midland	State: TX	Zip: 79701
Phone: (432)620-1933		
Email address: fvasquez@cimarex.com		

Received by OCD: 3/11/2021 6:34:15 PM

Page 12 of 15

Well Name: RED HILLS 32-5 FEDERAL COM	Well Location: T25S / R33E / SEC 32 / NENW / 32.093245 / -103.59522	County or Parish/State: LEA / NM
Well Number: 156H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0106040A	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254629500X1	Well Status: Approved Application for Permit to Drill	Operator: CIMAREX ENERGY COMPANY OF COLORADO

BLM Point of Contact

BLM POC Name: Jonathon W Shepard

BLM POC Phone: 5752345972

Disposition: Accepted

Signature: Jonathon Shepard

BLM POC Title: Petroleum Engineer

BLM POC Email Address: jshepard@blm.gov

Disposition Date: 02/05/2021

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)								1. WELL API NO.		
								2. Type of Lease ☐ STATE ☐ FEE ☐ FED/INDIAN 3. State Oil & Gas Lease No.		
5. Lease Name or Unit Agreement Name								6. Well Number:		
7. Type of Completion: ☐ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator						9. OGRID				
10. Address of Operator						11. Pool name or Wildcat				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:										
BH:										
13. Date Spudded	14. Date T.D. Reached		15. Date Rig Released			16. Date Completed (Ready to Produce)		17. Elevations (DF and RKB, RT, GR, etc.)		
18. Total Measured Depth of Well			19. Plug Back Measured Depth			20. Was Directional Survey Made?		21. Type Electric and Other Logs Run		
22. Producing Interval(s), of this completion - Top, Bottom, Name										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET	
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
28. PRODUCTION										
Date First Production		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>)					Well Status (<i>Prod. or Shut-in</i>)			
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>)				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>)								30. Test Witnessed By		
31. List Attachments										
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>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</i>										
Signature <i>Fatima Vasquez</i>			Printed Name			Title			Date	
E-mail Address										

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

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

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

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

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

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 20610

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
CIMAREX ENERGY CO. OF COLORADO Suite 600 Midland, TX79701	162683	20610	C-104C
600 N. Marienfeld Street			
OCD Reviewer	Condition		
ksimmons	None		