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
	[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. [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

[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] PBTD	[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: Fatima Vasquez

Printed name:

Title:

E-mail Address:

Date: Phone:

OIL CONSERVATION DIVISION

Approved by: Kurt Simmons

Title: NMOCD, Santa Fe

Approval Date: 04/12/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-46294	98158	WC-025 G09 S253236A; UPR WOLFCAMP

[4] Property Code	[5] Property Name	[6] Well Number
326032	RED HILLS 32-5 Federal Com	155H

[7] OGRID No.	[8] Operator Name	[9] Elevation
162683	CIMAREX ENERGY CO. of Colorado	3409.8'

[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
C	32	25S	33E		390	NORTH	2385	WEST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	5	26S	33E		101	SOUTH	1993	WEST	LEA

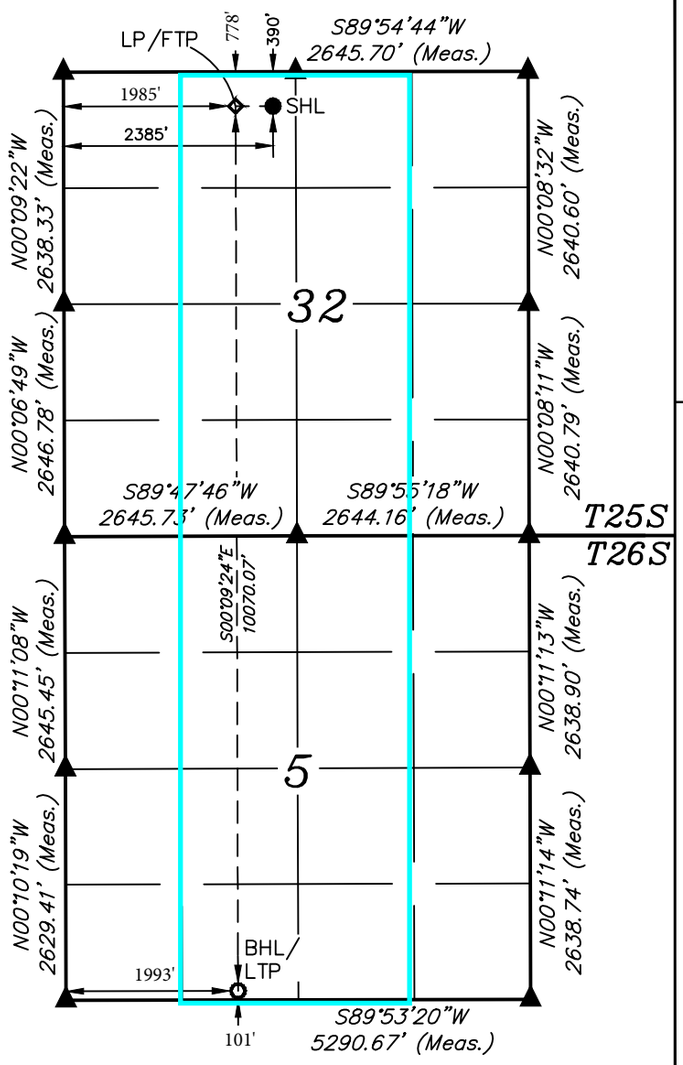
[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640			

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]

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°05'35.68" (32.093245°)
LONGITUDE = 103°35'42.56" (103.595155°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°05'35.23" (32.093120°)
LONGITUDE = 103°35'40.86" (103.594684°)
STATE PLANE NAD 83 (N.M. EAST)
N: 398441.60' E: 769934.84'
STATE PLANE NAD 27 (N.M. EAST)
N: 398383.96' E: 728748.40'

NAD 83 (BHL/LTP)
LATITUDE = 32.065572
LONGITUDE = 103.596419



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

2000' 1000' 0' 2000'

SCALE

DRAWN BY: J.N. 05-03-18
REV: 6 J.A. 11-12-19
(BHL CHANGE)

[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 02/04/2020
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:

PAUL BUCHELE
NEW MEXICO
23782
11-12-19
PROFESSIONAL SURVEYOR

Certificate Number:

Schlumberger

Final Surveys - Cimarex Red Hills 32-5 Fed Com #155H MWD 0ft-22115ft (Surcon Corrected) Survey Geodetic Report

(Def Survey)

CIMAREX

Report Date:	December 17, 2020 - 08:32 AM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	Cimarex Energy	**Vertical Section Azimuth:**	179.604 ° (Grid North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Red Hills 32-5 Fed Com #155H / New Slot	**TVD Reference Datum:**	RKB
Well:	Red Hills 32-5 Fed Com #155H	**TVD Reference Elevation:**	3435.800 ft above MSL
Borehole:	Red Hills 32-5 Fed Com #155H	**Seabed / Ground Elevation:**	3409.800 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.551 °
Survey Name:	Final Surveys - Cimarex Red Hills 32-5 Fed Com #155H MWD 0ft-22115ft (Surcon Corrected)	**Total Gravity Field Strength:**	998.4285mgn (9.80665 Based)
Survey Date:	February 03, 2020	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	330.760 ° / 10706.088 ft / 6.804 / 0.870	**Total Magnetic Field Strength:**	47669.889 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.684 °
Location Lat / Long:	N 32° 5' 35.68059", W 103° 35' 42.55834"	**Declination Date:**	April 02, 2020
Location Grid N/E Y/X:	N 398441.600 ftUS, E 769934.840 ftUS	**Magnetic Declination Model:**	HDGM 2020
CRS Grid Convergence Angle:	0.3922 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99996894	**Grid Convergence Used:**	0.3922 °
Version / Patch:	2.10.824.0	**Total Corr Mag North->Grid North:**	6.1586 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure Azimuth (°)	Closure (ft)
SHL [390' FNL, 2385' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	398441.60	769934.84	N 32 5 35.68	W 103 35 42.56	0.00	0.00
	194.00	1.19	192.13	193.99	1.97	-1.97	-0.42	0.61	398439.63	769934.42	N 32 5 35.66	W 103 35 42.56	192.13	2.01
	294.00	1.05	192.74	293.97	3.87	-3.88	-0.84	0.14	398437.72	769934.00	N 32 5 35.64	W 103 35 42.57	192.27	3.97
	384.00	1.10	195.47	383.95	5.51	-5.52	-1.26	0.08	398436.08	769933.58	N 32 5 35.63	W 103 35 42.57	192.83	5.66
	475.00	1.01	201.53	474.94	7.09	-7.10	-1.78	0.16	398434.50	769933.06	N 32 5 35.61	W 103 35 42.58	194.09	7.32
	565.00	1.14	177.63	564.92	8.72	-8.74	-2.04	0.51	398432.86	769932.80	N 32 5 35.59	W 103 35 42.58	193.13	8.97
	655.00	1.36	139.48	654.90	10.43	-10.44	-1.31	0.94	398431.16	769933.53	N 32 5 35.58	W 103 35 42.57	187.13	10.52
	746.00	1.14	140.10	745.88	11.96	-11.96	-0.02	0.24	398429.64	769934.82	N 32 5 35.56	W 103 35 42.56	180.11	11.96
	836.00	1.23	146.25	835.86	13.45	-13.45	1.09	0.17	398428.15	769935.93	N 32 5 35.55	W 103 35 42.55	175.38	13.49
	928.00	1.05	157.24	927.84	15.06	-15.05	1.96	0.31	398426.55	769936.80	N 32 5 35.53	W 103 35 42.54	172.57	15.17
	981.00	1.05	159.78	980.83	15.97	-15.95	2.32	0.09	398425.65	769937.16	N 32 5 35.52	W 103 35 42.53	171.73	16.12
	1131.00	1.32	172.98	1130.80	18.97	-18.95	3.00	0.25	398422.65	769937.84	N 32 5 35.49	W 103 35 42.52	171.00	19.19
	1222.00	1.23	188.01	1221.78	20.98	-20.96	3.00	0.38	398420.64	769937.84	N 32 5 35.47	W 103 35 42.53	171.87	21.17
	1316.00	1.43	192.36	1315.75	23.12	-23.11	2.60	0.24	398418.49	769937.44	N 32 5 35.45	W 103 35 42.53	173.57	23.25
	1410.00	0.67	330.90	1409.74	23.79	-23.77	2.09	2.11	398417.83	769936.93	N 32 5 35.45	W 103 35 42.54	174.99	23.86
	1505.00	1.36	55.17	1504.73	22.66	-22.64	2.74	1.53	398418.96	769937.58	N 32 5 35.46	W 103 35 42.53	173.10	22.81
	1693.00	0.76	174.76	1692.71	22.64	-22.61	4.69	0.99	398418.99	769939.53	N 32 5 35.46	W 103 35 42.51	168.29	23.09
	1787.00	1.38	67.02	1786.70	22.83	-22.79	5.79	1.88	398418.81	769940.63	N 32 5 35.45	W 103 35 42.49	165.76	23.51
	1976.00	1.63	70.73	1975.64	21.08	-21.01	10.42	0.14	398420.59	769945.26	N 32 5 35.47	W 103 35 42.44	153.63	23.45
	2165.00	1.80	75.33	2164.55	19.48	-19.37	15.83	0.12	398422.23	769950.67	N 32 5 35.49	W 103 35 42.38	140.75	25.02
	2259.00	1.88	78.10	2258.51	18.81	-18.68	18.76	0.13	398422.92	769953.60	N 32 5 35.49	W 103 35 42.34	134.88	26.48
	2353.00	2.33	75.82	2352.44	18.05	-17.90	22.13	0.49	398423.70	769956.96	N 32 5 35.50	W 103 35 42.30	128.97	28.46
	2447.00	1.97	46.47	2446.38	16.49	-16.32	25.15	1.22	398425.29	769959.99	N 32 5 35.52	W 103 35 42.27	122.97	29.98
	2542.00	1.78	3.97	2541.33	13.90	-13.72	26.44	1.44	398427.88	769961.27	N 32 5 35.54	W 103 35 42.25	117.43	29.78
	2636.00	2.23	0.12	2635.27	10.62	-10.43	26.54	0.50	398431.17	769961.38	N 32 5 35.58	W 103 35 42.25	111.46	28.52
	2731.00	2.71	7.22	2730.19	6.54	-6.36	26.83	0.60	398435.24	769961.67	N 32 5 35.62	W 103 35 42.25	103.33	27.57
	2825.00	2.00	17.52	2824.11	2.78	-2.59	27.60	0.88	398439.01	769962.44	N 32 5 35.65	W 103 35 42.24	95.36	27.72
	2920.00	1.05	0.81	2919.07	0.33	-0.14	28.11	1.09	398441.46	769962.95	N 32 5 35.68	W 103 35 42.23	90.28	28.11
	3014.00	1.18	352.75	3013.05	-1.49	1.68	28.00	0.22	398443.28	769962.84	N 32 5 35.70	W 103 35 42.23	86.56	28.05
	3109.00	1.23	355.93	3108.03	-3.48	3.67	27.81	0.09	398445.27	769962.64	N 32 5 35.72	W 103 35 42.23	82.48	28.05
	3203.00	1.68	326.80	3202.00	-5.64	5.83	26.98	0.91	398447.43	769961.82	N 32 5 35.74	W 103 35 42.24	77.80	27.60

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)
	3298.00	2.11	317.18	3296.95	-8.11	8.28	25.03	0.56	398449.88	769959.87	N 32 5 35.76	W 103 35 42.27	71.70	26.36
	3392.00	3.83	296.01	3390.82	-10.78	10.93	21.03	2.14	398452.52	769955.87	N 32 5 35.79	W 103 35 42.31	62.55	23.70
	3487.00	6.68	287.13	3485.42	-13.86	13.94	12.90	3.11	398455.54	769947.74	N 32 5 35.82	W 103 35 42.41	42.76	18.99
	3582.00	8.34	278.94	3579.60	-16.64	16.64	0.81	2.07	398458.24	769935.65	N 32 5 35.85	W 103 35 42.55	2.78	16.66
	3676.00	7.72	281.39	3672.68	-19.03	18.95	-12.12	0.75	398460.55	769922.73	N 32 5 35.87	W 103 35 42.70	327.41	22.49
	3771.00	7.20	273.26	3766.88	-20.72	20.55	-24.31	1.24	398462.15	769910.53	N 32 5 35.89	W 103 35 42.84	310.20	31.83
	3865.00	5.59	272.81	3860.29	-21.35	21.11	-34.77	1.71	398462.71	769900.07	N 32 5 35.89	W 103 35 42.96	301.26	40.67
	3960.00	5.75	269.32	3954.83	-21.58	21.28	-44.15	0.40	398462.88	769890.69	N 32 5 35.89	W 103 35 43.07	295.73	49.01
	4055.00	6.13	264.94	4049.32	-21.15	20.77	-53.96	0.62	398462.37	769880.88	N 32 5 35.89	W 103 35 43.18	291.06	57.82
	4149.00	5.28	268.14	4142.85	-20.63	20.19	-63.28	0.97	398461.79	769871.56	N 32 5 35.88	W 103 35 43.29	287.70	66.43
	4244.00	4.74	259.26	4237.49	-19.81	19.32	-71.51	0.99	398460.92	769863.33	N 32 5 35.88	W 103 35 43.39	285.12	74.07
	4432.00	4.75	260.12	4424.84	-17.13	16.53	-86.81	0.04	398458.13	769848.03	N 32 5 35.85	W 103 35 43.57	280.78	88.37
	4527.00	4.46	258.19	4519.54	-15.76	15.10	-94.30	0.35	398456.70	769840.54	N 32 5 35.84	W 103 35 43.65	279.10	95.50
	4621.00	5.26	261.17	4613.20	-14.40	13.69	-102.13	0.89	398455.29	769832.71	N 32 5 35.82	W 103 35 43.74	277.64	103.05
	4715.00	6.00	274.96	4706.75	-14.23	13.46	-111.29	1.63	398455.06	769823.56	N 32 5 35.82	W 103 35 43.85	276.90	112.10
	4810.00	7.33	278.07	4801.10	-15.58	14.74	-122.23	1.45	398456.34	769812.61	N 32 5 35.83	W 103 35 43.98	276.87	123.12
	4904.00	7.74	279.88	4894.29	-17.59	16.67	-134.41	0.50	398458.27	769800.44	N 32 5 35.85	W 103 35 44.12	277.07	135.44
	4999.00	6.85	272.01	4988.53	-18.97	17.96	-146.37	1.41	398459.56	769788.47	N 32 5 35.87	W 103 35 44.26	277.00	147.47
	5093.00	7.06	268.75	5081.83	-19.12	18.03	-157.75	0.48	398459.63	769777.10	N 32 5 35.87	W 103 35 44.39	276.52	158.78
	5187.00	7.07	266.64	5175.12	-18.74	17.57	-169.30	0.28	398459.17	769765.55	N 32 5 35.87	W 103 35 44.52	275.92	170.21
	5282.00	7.20	268.77	5269.38	-18.35	17.10	-181.09	0.31	398458.70	769753.76	N 32 5 35.86	W 103 35 44.66	275.39	181.89
	5377.00	7.19	269.15	5363.64	-18.21	16.88	-192.98	0.05	398458.48	769741.86	N 32 5 35.86	W 103 35 44.80	275.00	193.72
	5471.00	6.80	272.46	5456.94	-18.45	17.03	-204.43	0.60	398458.63	769730.42	N 32 5 35.86	W 103 35 44.93	274.76	205.13
	5565.00	6.45	272.18	5550.31	-18.96	17.47	-215.26	0.37	398459.07	769719.59	N 32 5 35.87	W 103 35 45.06	274.64	215.97
	5660.00	5.99	270.44	5644.75	-19.27	17.71	-225.55	0.52	398459.31	769709.30	N 32 5 35.87	W 103 35 45.18	274.49	226.25
	5754.00	5.76	270.04	5738.26	-19.38	17.75	-235.17	0.25	398459.35	769699.68	N 32 5 35.87	W 103 35 45.29	274.32	235.84
	5848.00	5.79	268.71	5831.78	-19.34	17.65	-244.63	0.15	398459.25	769690.22	N 32 5 35.87	W 103 35 45.40	274.13	245.27
	5943.00	5.35	271.60	5926.33	-19.42	17.67	-253.85	0.55	398459.27	769681.00	N 32 5 35.87	W 103 35 45.51	273.98	254.46
	6037.00	5.56	271.63	6019.91	-19.73	17.92	-262.78	0.22	398459.52	769672.07	N 32 5 35.88	W 103 35 45.61	273.90	263.39
	6131.00	6.25	268.63	6113.41	-19.81	17.93	-272.45	0.80	398459.53	769662.40	N 32 5 35.88	W 103 35 45.72	273.76	273.04
	6225.00	6.55	266.77	6206.82	-19.46	17.50	-282.92	0.39	398459.10	769651.93	N 32 5 35.87	W 103 35 45.85	273.54	283.46
	6320.00	6.39	266.28	6301.22	-18.88	16.85	-293.60	0.18	398458.45	769641.25	N 32 5 35.87	W 103 35 45.97	273.29	294.08
	6414.00	6.56	264.62	6394.62	-18.11	16.01	-304.17	0.27	398457.61	769630.68	N 32 5 35.86	W 103 35 46.09	273.01	304.59
	6508.00	6.59	263.78	6488.00	-17.10	14.92	-314.87	0.11	398456.52	769619.98	N 32 5 35.85	W 103 35 46.22	272.71	315.23
	6602.00	6.46	264.73	6581.39	-16.10	13.85	-325.50	0.18	398455.45	769609.35	N 32 5 35.84	W 103 35 46.34	272.44	325.80
	6697.00	6.21	262.10	6675.81	-14.98	12.66	-335.91	0.40	398454.25	769598.94	N 32 5 35.83	W 103 35 46.46	272.16	336.15
	6791.00	5.08	265.31	6769.35	-14.00	11.62	-345.10	1.25	398453.22	769589.75	N 32 5 35.82	W 103 35 46.57	271.93	345.29
	6886.00	3.85	266.66	6864.06	-13.52	11.09	-352.47	1.30	398452.69	769582.38	N 32 5 35.81	W 103 35 46.65	271.80	352.65
	6980.00	3.19	258.68	6957.88	-12.86	10.39	-358.19	0.87	398451.99	769576.66	N 32 5 35.81	W 103 35 46.72	271.66	358.34
	7074.00	2.82	257.88	7051.75	-11.90	9.39	-363.01	0.40	398450.99	769571.84	N 32 5 35.80	W 103 35 46.78	271.48	363.14
	7168.00	2.64	259.87	7145.65	-11.06	8.52	-367.41	0.22	398450.12	769567.45	N 32 5 35.79	W 103 35 46.83	271.33	367.50
	7263.00	2.11	258.61	7240.57	-10.36	7.79	-371.27	0.56	398449.39	769563.58	N 32 5 35.78	W 103 35 46.87	271.20	371.36
	7357.00	1.65	254.21	7334.51	-9.67	7.08	-374.27	0.51	398448.68	769560.58	N 32 5 35.78	W 103 35 46.91	271.08	374.34
	7451.00	1.63	248.23	7428.48	-8.82	6.22	-376.82	0.18	398447.82	769558.04	N 32 5 35.77	W 103 35 46.94	270.95	376.87
	7546.00	1.51	249.63	7523.44	-7.90	5.28	-379.24	0.13	398446.88	769555.61	N 32 5 35.76	W 103 35 46.97	270.80	379.28
	7640.00	1.71	239.29	7617.40	-6.77	4.14	-381.61	0.37	398445.74	769553.24	N 32 5 35.75	W 103 35 46.99	270.62	381.63
	7735.00	1.79	232.49	7712.36	-5.16	2.51	-384.01	0.23	398444.11	769550.85	N 32 5 35.73	W 103 35 47.02	270.37	384.02
	7829.00	1.95	234.62	7806.31	-3.36	0.69	-386.48	0.19	398442.29	769548.38	N 32 5 35.71	W 103 35 47.05	270.10	386.48
	7923.00	1.91	232.22	7900.26	-1.49	-1.20	-389.02	0.10	398440.40	769545.84	N 32 5 35.70	W 103 35 47.08	269.82	389.02
	8017.00	1.67	228.58	7994.21	0.36	-3.06	-391.28	0.28	398438.54	769543.57	N 32 5 35.68	W 103 35 47.11	269.55	391.29
	8112.00	1.73	222.45	8089.17	2.32	-5.04	-393.29	0.20	398436.56	769541.56	N 32 5 35.66	W 103 35 47.13	269.27	393.32
	8206.00	1.38	214.02	8183.13	4.29	-7.02	-394.88	0.44	398434.58	769539.97	N 32 5 35.64	W 103 35 47.15	268.98	394.94
	8300.00	1.39	211.13	8277.11	6.20	-8.94	-396.10	0.08	398432.66	769538.75	N 32 5 35.62	W 103 35 47.16	268.71	396.20
	8395.00	1.57	209.84	8372.07	8.30	-11.05	-397.35	0.19	398430.55	769537.51	N 32 5 35.60	W 103 35 47.18	268.41	397.50
	8489.00	1.65	203.04	8466.04	10.66	-13.41	-398.52	0.22	398428.19	769536.34	N 32 5 35.57	W 103 35 47.19	268.07	398.74
	8584.00	1.70	199.76	8561.00	13.24	-16.00	-399.53	0.11	398425.60	769535.33	N 32 5 35.55	W 103 35 47.20	267.71	399.85
	8678.00	1.92	206.98	8654.95	15.94	-18.71	-400.71	0.34	398422.89	769534.14	N 32 5 35.52	W 103 35 47.22	267.33	401.15
	8867.00	1.80	203.07	8843.85	21.48	-24.27	-403.31	0.09	398417.33	769531.54	N 32 5 35.47	W 103 35 47.25	266.56	404.04
	8961.00	1.83	202.04	8937.80	24.22	-27.02	-404.45	0.05	398414.58	769530.40	N 32 5 35.44	W 103 35 47.26	266.18	405.36
	9056.00	1.45	215.87	9032.76	26.59	-29.40	-405.73	0.57	398412.20	769529.13	N 32 5 35.42	W 103 35 47.28	265.86	406.79
	9149.00	1.32	214.68	9125.74	28.42	-31.23	-407.03	0.14	398410.37	769527.83	N 32 5 35.40	W 103 35 47.29	265.61	408.22
	9243.00	1.71	222.37	9219.70	30.33	-33.16	-408.59	0.47	398408.44	769526.27	N 32 5 35.38	W 103 35 47.31	265.36	409.93

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)
	9338.00	1.82	201.67	9314.66	32.77	-35.61	-410.10	0.68	398405.99	769524.75	N 32 5 35.36	W 103 35 47.33	265.04	411.64
	9432.00	0.94	212.93	9408.63	34.80	-37.64	-411.07	0.98	398403.96	769523.78	N 32 5 35.34	W 103 35 47.34	264.77	412.79
	9526.00	1.00	265.51	9502.62	35.50	-38.35	-412.31	0.92	398403.25	769522.55	N 32 5 35.33	W 103 35 47.35	264.69	414.09
	9621.00	1.33	248.99	9597.60	35.95	-38.81	-414.16	0.49	398402.79	769520.69	N 32 5 35.32	W 103 35 47.38	264.65	415.98
	9715.00	4.87	193.24	9691.46	40.21	-43.09	-416.10	4.54	398398.51	769518.76	N 32 5 35.28	W 103 35 47.40	264.09	418.32
	9810.00	4.95	196.67	9786.11	48.05	-50.94	-418.20	0.32	398390.66	769516.66	N 32 5 35.20	W 103 35 47.42	263.05	421.29
	9841.00	4.19	201.56	9817.02	50.38	-53.28	-419.00	2.75	398388.33	769515.86	N 32 5 35.18	W 103 35 47.43	262.75	422.37
	9872.00	3.83	198.20	9847.94	52.41	-55.31	-419.74	1.39	398386.29	769515.12	N 32 5 35.16	W 103 35 47.44	262.49	423.36
	9904.00	3.23	198.57	9879.88	54.28	-57.18	-420.36	1.88	398384.42	769514.50	N 32 5 35.14	W 103 35 47.45	262.25	424.23
	9935.00	2.59	190.25	9910.84	55.79	-58.70	-420.76	2.47	398382.90	769514.09	N 32 5 35.13	W 103 35 47.45	262.06	424.83
	9967.00	2.25	184.11	9942.81	57.13	-60.04	-420.93	1.33	398381.56	769513.92	N 32 5 35.11	W 103 35 47.46	261.88	425.19
	9998.00	1.95	180.83	9973.79	58.26	-61.17	-420.98	1.04	398380.43	769513.87	N 32 5 35.10	W 103 35 47.46	261.73	425.41
	10030.00	1.74	172.25	10005.77	59.29	-62.20	-420.93	1.08	398379.40	769513.93	N 32 5 35.09	W 103 35 47.46	261.59	425.50
	10061.00	1.57	180.31	10036.76	60.18	-63.09	-420.87	0.93	398378.51	769513.99	N 32 5 35.08	W 103 35 47.46	261.47	425.57
	10093.00	1.38	174.00	10068.75	61.00	-63.91	-420.83	0.78	398377.69	769514.03	N 32 5 35.08	W 103 35 47.46	261.36	425.65
	10124.00	1.38	166.14	10099.74	61.73	-64.64	-420.70	0.61	398376.96	769514.16	N 32 5 35.07	W 103 35 47.45	261.26	425.64
	10156.00	1.07	161.04	10131.73	62.39	-65.30	-420.51	1.03	398376.30	769514.34	N 32 5 35.06	W 103 35 47.45	261.17	425.55
	10187.00	0.87	161.11	10162.73	62.89	-65.80	-420.34	0.65	398375.81	769514.51	N 32 5 35.06	W 103 35 47.45	261.10	425.46
	10282.00	0.64	138.47	10257.72	63.97	-66.88	-419.75	0.39	398374.73	769515.10	N 32 5 35.05	W 103 35 47.44	260.95	425.05
	10379.00	1.24	179.28	10354.71	65.43	-68.33	-419.38	0.89	398373.27	769515.47	N 32 5 35.03	W 103 35 47.44	260.75	424.91
	10473.00	1.28	174.56	10448.69	67.49	-70.39	-419.27	0.12	398371.21	769515.58	N 32 5 35.01	W 103 35 47.44	260.47	425.14
	10567.00	2.13	134.69	10542.65	69.78	-72.67	-417.93	1.50	398368.93	769516.93	N 32 5 34.99	W 103 35 47.42	260.14	424.20
	10661.00	1.49	136.20	10636.60	71.90	-74.78	-415.84	0.68	398366.82	769519.01	N 32 5 34.97	W 103 35 47.40	259.81	422.51
	10756.00	0.91	95.46	10731.58	72.88	-75.74	-414.23	1.05	398365.86	769520.62	N 32 5 34.96	W 103 35 47.38	259.64	421.10
	10850.00	0.99	161.03	10825.57	73.72	-76.58	-413.23	1.10	398365.02	769521.63	N 32 5 34.95	W 103 35 47.37	259.50	420.26
	10945.00	1.88	355.54	10920.56	72.95	-75.80	-413.08	3.00	398365.80	769521.77	N 32 5 34.96	W 103 35 47.37	259.60	419.98
	11039.00	3.56	2.24	11014.45	68.49	-71.35	-413.09	1.82	398370.25	769521.77	N 32 5 35.00	W 103 35 47.37	260.20	419.20
	11133.00	3.36	355.64	11108.28	62.83	-65.69	-413.18	0.47	398375.92	769521.67	N 32 5 35.06	W 103 35 47.37	260.97	418.37
	11228.00	3.70	336.22	11203.10	57.24	-60.11	-414.63	1.30	398381.50	769520.22	N 32 5 35.11	W 103 35 47.38	261.75	418.96
	11322.00	4.09	333.88	11296.88	51.43	-54.32	-417.33	0.45	398387.28	769517.52	N 32 5 35.17	W 103 35 47.41	262.58	420.85
	11511.00	4.00	329.80	11485.41	39.64	-42.57	-423.61	0.16	398399.03	769511.24	N 32 5 35.29	W 103 35 47.49	264.26	425.75
	11605.00	5.25	336.03	11579.10	32.85	-35.81	-427.01	1.43	398405.79	769507.85	N 32 5 35.36	W 103 35 47.52	265.21	428.51
	11672.00	6.54	336.57	11645.75	26.53	-29.50	-429.77	1.93	398412.10	769505.08	N 32 5 35.42	W 103 35 47.56	266.07	430.78
KOP [411' FNL, 1952' FWL]	*11749.00*	*3.26*	*345.88*	*11722.46*	*20.37*	*-23.36*	*-432.05*	*4.37*	*398418.25*	*769502.80*	*N 32 5 35.48*	*W 103 35 47.58*	*266.91*	*432.68*
First SLB Survey	11759.00	2.85	348.64	11732.44	19.85	-22.84	-432.17	4.37	398418.76	769502.69	N 32 5 35.48	W 103 35 47.58	266.98	432.77
	11790.00	2.97	102.87	11763.42	19.28	-22.26	-431.54	15.77	398419.34	769503.32	N 32 5 35.49	W 103 35 47.58	267.05	432.11
	11822.00	6.35	140.11	11795.32	20.83	-23.80	-429.59	13.66	398417.80	769505.26	N 32 5 35.47	W 103 35 47.55	266.83	430.25
	11853.00	10.84	145.83	11825.96	24.58	-27.53	-426.85	14.73	398414.07	769508.00	N 32 5 35.44	W 103 35 47.52	266.31	427.74
	11885.00	15.15	148.78	11857.13	30.68	-33.60	-423.00	13.62	398408.00	769511.86	N 32 5 35.38	W 103 35 47.48	265.46	424.33
	11916.00	19.68	151.36	11886.71	38.76	-41.65	-418.39	14.82	398399.95	769516.46	N 32 5 35.30	W 103 35 47.42	264.32	420.46
	11948.00	23.39	155.74	11916.47	49.32	-52.17	-413.20	12.63	398389.43	769521.66	N 32 5 35.19	W 103 35 47.37	262.80	416.48
	11979.00	27.31	161.38	11944.48	61.71	-64.53	-408.40	14.84	398377.07	769526.46	N 32 5 35.07	W 103 35 47.31	261.02	413.46
	12011.00	29.73	170.30	11972.61	76.52	-79.32	-404.71	15.29	398362.29	769530.14	N 32 5 34.92	W 103 35 47.27	258.91	412.41
	12042.00	33.45	177.81	11999.02	92.65	-95.44	-403.09	17.45	398346.16	769531.76	N 32 5 34.76	W 103 35 47.25	256.68	414.23
	12089.00	37.99	178.99	12037.17	120.08	-122.86	-402.34	9.77	398318.74	769532.51	N 32 5 34.49	W 103 35 47.24	253.02	420.68
	12136.00	43.16	175.34	12072.86	150.60	-153.37	-400.78	12.10	398288.23	769534.08	N 32 5 34.19	W 103 35 47.23	249.06	429.12
	12183.00	49.71	175.38	12105.24	184.54	-187.30	-398.02	13.94	398254.31	769536.83	N 32 5 33.85	W 103 35 47.20	244.80	439.89
	12231.00	54.39	176.77	12134.75	222.31	-225.05	-395.45	10.01	398216.56	769539.40	N 32 5 33.48	W 103 35 47.17	240.36	455.00
	12278.00	57.65	176.95	12161.01	261.24	-263.96	-393.32	6.94	398177.65	769541.54	N 32 5 33.10	W 103 35 47.15	236.13	473.68
	12325.00	61.14	181.41	12184.95	301.67	-304.39	-392.77	11.04	398137.22	769542.09	N 32 5 32.70	W 103 35 47.15	232.22	496.91
	12357.00	64.58	182.55	12199.54	330.11	-332.84	-393.75	11.21	398108.77	769541.10	N 32 5 32.41	W 103 35 47.16	229.79	515.58
	12388.00	66.35	183.05	12212.42	358.27	-361.01	-395.13	5.90	398080.60	769539.72	N 32 5 32.14	W 103 35 47.18	227.58	535.22
First Take Point [1985' FWL, 778' FNL]	12420.00	68.71	182.39	12224.65	387.79	-390.54	-396.53	7.62	398051.07	769538.32	N 32 5 31.84	W 103 35 47.20	225.44	556.56
	12451.00	71.50	181.28	12235.19	416.92	-419.67	-397.46	9.61	398021.94	769537.39	N 32 5 31.55	W 103 35 47.21	223.44	578.02
	12537.00	74.70	180.51	12260.19	499.17	-501.94	-398.74	3.82	397939.68	769536.11	N 32 5 30.74	W 103 35 47.23	218.46	641.05
	12568.00	74.47	180.75	12268.43	529.05	-531.82	-399.07	1.05	397909.80	769535.78	N 32 5 30.45	W 103 35 47.24	216.88	664.90
	12606.00	76.51	180.19	12277.95	565.83	-568.61	-399.37	5.55	397873.01	769535.48	N 32 5 30.08	W 103 35 47.25	215.08	694.85
	12631.00	78.23	181.01	12283.42	590.22	-593.00	-399.63	7.59	397848.62	769535.22	N 32 5 29.84	W 103 35 47.25	213.98	715.09

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)
	12726.00	86.76	185.17	12295.82	684.12	-686.94	-404.73	9.97	397754.68	769530.12	N 32 5 28.91	W 103 35 47.32	210.51	797.30
	12820.00	87.64	187.03	12300.41	777.40	-780.29	-414.71	2.19	397661.34	769520.14	N 32 5 27.99	W 103 35 47.44	207.99	883.65
	12915.00	91.39	185.83	12301.22	871.71	-874.67	-425.35	4.14	397566.96	769509.51	N 32 5 27.05	W 103 35 47.57	205.93	972.61
	12946.00	93.73	183.31	12299.83	902.56	-905.54	-427.82	11.09	397536.09	769507.04	N 32 5 26.75	W 103 35 47.60	205.29	1001.51
	12978.00	95.13	180.73	12297.36	934.43	-937.42	-428.94	9.15	397504.21	769505.91	N 32 5 26.43	W 103 35 47.62	204.59	1030.89
	13009.00	94.87	178.53	12294.66	965.31	-968.30	-428.74	7.12	397473.34	769506.11	N 32 5 26.13	W 103 35 47.62	203.88	1058.97
	13041.00	92.61	176.48	12292.57	997.22	-1000.19	-427.35	9.53	397441.44	769507.50	N 32 5 25.81	W 103 35 47.61	203.14	1087.67
	13103.00	89.58	174.57	12291.38	1059.04	-1061.98	-422.51	5.78	397379.65	769512.34	N 32 5 25.20	W 103 35 47.55	201.70	1142.95
	13198.00	89.35	176.09	12292.27	1153.77	-1156.66	-414.78	1.62	397284.98	769520.07	N 32 5 24.26	W 103 35 47.47	199.73	1228.78
	13293.00	89.08	180.01	12293.57	1248.70	-1251.58	-411.55	4.14	397190.06	769523.30	N 32 5 23.32	W 103 35 47.44	198.20	1317.51
	13387.00	89.79	181.63	12294.50	1342.67	-1345.56	-412.89	1.88	397096.08	769521.96	N 32 5 22.39	W 103 35 47.46	197.06	1407.49
	13481.00	89.05	181.67	12295.45	1436.61	-1439.52	-415.60	0.79	397002.13	769519.25	N 32 5 21.46	W 103 35 47.50	196.10	1498.31
	13576.00	90.13	182.95	12296.13	1531.50	-1534.43	-419.43	1.76	396907.22	769515.42	N 32 5 20.53	W 103 35 47.56	195.29	1590.72
	13670.00	90.04	181.93	12295.99	1625.38	-1628.35	-423.43	1.09	396813.31	769511.42	N 32 5 19.60	W 103 35 47.61	194.58	1682.50
	13765.00	89.68	179.62	12296.23	1720.35	-1723.33	-424.72	2.46	396718.33	769510.14	N 32 5 18.66	W 103 35 47.63	193.84	1774.90
	13860.00	90.36	179.74	12296.19	1815.35	-1818.33	-424.19	0.73	396623.33	769510.67	N 32 5 17.72	W 103 35 47.63	193.13	1867.15
	13955.00	90.00	179.02	12295.89	1910.35	-1913.32	-423.16	0.85	396528.34	769511.70	N 32 5 16.78	W 103 35 47.63	192.47	1959.56
	14050.00	90.52	180.70	12295.46	2005.35	-2008.32	-422.93	1.85	396433.35	769511.93	N 32 5 15.84	W 103 35 47.63	191.89	2052.37
	14144.00	90.05	179.86	12294.99	2099.34	-2102.31	-423.38	1.02	396339.36	769511.47	N 32 5 14.91	W 103 35 47.65	191.39	2144.52
	14238.00	89.62	180.20	12295.27	2193.33	-2196.31	-423.43	0.58	396245.36	769511.42	N 32 5 13.98	W 103 35 47.65	190.91	2236.76
	14332.00	90.23	180.38	12295.39	2287.33	-2290.31	-423.91	0.68	396151.36	769510.94	N 32 5 13.05	W 103 35 47.67	190.49	2329.21
	14427.00	90.05	179.83	12295.16	2382.32	-2385.31	-424.08	0.61	396056.37	769510.77	N 32 5 12.11	W 103 35 47.68	190.08	2422.72
	14521.00	90.04	180.32	12295.08	2476.32	-2479.31	-424.21	0.52	395962.37	769510.65	N 32 5 11.18	W 103 35 47.69	189.71	2515.34
	14615.00	90.47	177.58	12294.66	2570.30	-2573.28	-422.48	2.95	395868.40	769512.37	N 32 5 10.25	W 103 35 47.67	189.32	2607.74
	14709.00	90.65	177.34	12293.75	2664.23	-2667.19	-418.32	0.32	395774.50	769516.54	N 32 5 9.32	W 103 35 47.63	188.91	2699.79
	14804.00	90.65	178.71	12292.67	2759.19	-2762.12	-415.05	1.44	395679.57	769519.81	N 32 5 8.38	W 103 35 47.60	188.55	2793.13
	14898.00	90.60	176.70	12291.64	2853.13	-2856.04	-411.28	2.14	395585.66	769523.57	N 32 5 7.45	W 103 35 47.57	188.19	2885.50
	14992.00	90.35	177.97	12290.86	2947.05	-2949.93	-406.91	1.38	395491.77	769527.94	N 32 5 6.52	W 103 35 47.52	187.85	2977.86
	15086.00	90.75	177.55	12289.96	3040.99	-3043.85	-403.24	0.62	395397.85	769531.62	N 32 5 5.59	W 103 35 47.49	187.55	3070.45
	15181.00	91.14	177.72	12288.39	3135.92	-3138.76	-399.32	0.45	395302.94	769535.54	N 32 5 4.65	W 103 35 47.45	187.25	3164.06
	15275.00	90.81	178.71	12286.79	3229.88	-3232.70	-396.39	1.11	395209.01	769538.46	N 32 5 3.72	W 103 35 47.42	186.99	3256.91
	15370.00	91.14	177.84	12285.18	3324.84	-3327.64	-393.53	0.98	395114.07	769541.32	N 32 5 2.78	W 103 35 47.40	186.74	3350.83
	15464.00	91.01	178.71	12283.41	3418.80	-3421.58	-390.70	0.94	395020.13	769544.15	N 32 5 1.85	W 103 35 47.37	186.51	3443.81
	15558.00	90.65	177.80	12282.05	3512.76	-3515.53	-387.84	1.04	394926.19	769547.01	N 32 5 0.92	W 103 35 47.35	186.30	3536.85
	15653.00	90.21	179.14	12281.34	3607.74	-3610.49	-385.30	1.48	394831.23	769549.55	N 32 4 59.98	W 103 35 47.32	186.09	3630.99
	15747.00	90.85	179.61	12280.47	3701.73	-3704.48	-384.28	0.84	394737.25	769550.57	N 32 4 59.05	W 103 35 47.32	185.92	3724.35
	15841.00	90.89	179.49	12279.04	3795.72	-3798.46	-383.54	0.13	394643.26	769551.31	N 32 4 58.12	W 103 35 47.32	185.77	3817.78
	15935.00	90.73	179.91	12277.71	3889.71	-3892.45	-383.05	0.48	394549.28	769551.81	N 32 4 57.19	W 103 35 47.32	185.62	3911.25
	16029.00	90.79	179.51	12276.47	3983.70	-3986.44	-382.57	0.43	394455.29	769552.28	N 32 4 56.26	W 103 35 47.32	185.48	4004.76
	16123.00	90.75	180.31	12275.20	4077.69	-4080.43	-382.42	0.85	394361.30	769552.43	N 32 4 55.33	W 103 35 47.33	185.35	4098.31
	16312.00	91.33	183.14	12271.77	4266.51	-4269.30	-388.11	1.53	394172.44	769546.74	N 32 4 53.46	W 103 35 47.41	185.19	4286.90
	16406.00	90.77	180.15	12270.05	4360.43	-4363.23	-390.81	3.24	394078.51	769544.04	N 32 4 52.53	W 103 35 47.45	185.12	4380.70
	16500.00	90.82	180.17	12268.75	4454.41	-4457.22	-391.07	0.06	393984.53	769543.78	N 32 4 51.60	W 103 35 47.46	185.01	4474.34
	16594.00	90.47	182.76	12267.69	4548.35	-4551.18	-393.47	2.78	393890.57	769541.38	N 32 4 50.67	W 103 35 47.49	184.94	4568.15
	16688.00	90.75	181.11	12266.69	4642.26	-4645.11	-396.65	1.78	393796.64	769538.21	N 32 4 49.74	W 103 35 47.54	184.88	4662.02
	16783.00	90.73	180.89	12265.46	4737.23	-4740.09	-398.31	0.23	393701.67	769536.55	N 32 4 48.80	W 103 35 47.56	184.80	4756.80
	16877.00	90.68	179.68	12264.30	4831.21	-4834.08	-398.77	1.29	393607.68	769536.08	N 32 4 47.87	W 103 35 47.58	184.72	4850.50
Private Leaseline Crossing [1954' FWL]	*16936.80*	*90.77*	*180.06*	*12263.54*	*4891.00*	*-4893.88*	*-398.64*	*0.65*	*393547.89*	*769536.22*	*N 32 4 47.28*	*W 103 35 47.58*	*184.66*	*4910.09*
	16972.00	90.83	180.28	12263.05	4926.20	-4929.07	-398.74	0.65	393512.69	769536.11	N 32 4 46.93	W 103 35 47.58	184.62	4945.17
	17066.00	90.79	179.58	12261.72	5020.19	-5023.06	-398.63	0.75	393418.70	769536.23	N 32 4 46.00	W 103 35 47.59	184.54	5038.86
	17160.00	90.32	179.33	12260.81	5114.18	-5117.05	-397.73	0.57	393324.72	769537.12	N 32 4 45.07	W 103 35 47.59	184.44	5132.49
	17255.00	90.75	180.01	12259.92	5209.18	-5212.05	-397.18	0.85	393229.72	769537.67	N 32 4 44.13	W 103 35 47.59	184.36	5227.16
	17443.00	90.28	179.70	12258.23	5397.17	-5400.04	-396.71	0.30	393041.74	769538.14	N 32 4 42.27	W 103 35 47.60	184.20	5414.59
	17538.00	90.73	180.09	12257.40	5492.16	-5495.03	-396.53	0.63	392946.75	769538.32	N 32 4 41.33	W 103 35 47.60	184.13	5509.32
	17632.00	90.10	180.11	12256.72	5586.16	-5589.03	-396.70	0.67	392852.75	769538.15	N 32 4 40.40	W 103 35 47.61	184.06	5603.09
	17726.00	89.95	179.58	12256.68	5680.15	-5683.03	-396.44	0.59	392758.76	769538.41	N 32 4 39.47	W 103 35 47.62	183.99	5696.84
	17821.00	89.52	179.25	12257.11	5775.15	-5778.02	-395.47	0.57	392663.77	769539.38	N 32 4 38.53	W 103 35 47.61	183.92	5791.54
	17915.00	88.68	179.97	12258.59	5869.14	-5872.01	-394.83	1.18	392569.79	769540.02	N 32 4 37.60	W 103 35 47.61	183.85	5885.27
	18009.00	89.35	179.82	12260.21	5963.12	-5965.99	-394.66	0.73	392475.80	769540.19	N 32 4 36.67	W 103 35 47.62	183.78	5979.03

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)
	18103.00	89.62	180.58	12261.05	6057.11	-6059.99	-394.99	0.86	392381.81	769539.86	N 32 4 35.74	W 103 35 47.63	183.73	6072.85
Private - NMNM01060404 Crossing [1947' FWL]	*18259.40*	*91.13*	*180.56*	*12260.02*	*6213.48*	*-6216.37*	*-396.54*	*0.97*	*392225.43*	*769538.31*	*N 32 4 34.20*	*W 103 35 47.66*	*183.65*	*6229.01*
	18291.00	91.44	180.55	12259.31	6245.07	-6247.96	-396.84	0.97	392193.84	769538.01	N 32 4 33.88	W 103 35 47.67	183.63	6260.55
	18386.00	90.47	180.10	12257.73	6340.05	-6342.95	-397.38	1.13	392098.86	769537.47	N 32 4 32.94	W 103 35 47.68	183.58	6355.38
	18480.00	89.57	177.82	12257.70	6434.04	-6436.93	-395.68	2.61	392004.89	769539.18	N 32 4 32.01	W 103 35 47.67	183.52	6449.07
	18575.00	89.03	178.61	12258.86	6529.00	-6531.87	-392.72	1.01	391909.95	769542.14	N 32 4 31.07	W 103 35 47.64	183.44	6543.67
	18669.00	91.71	180.29	12258.25	6622.99	-6625.85	-391.82	3.36	391815.97	769543.04	N 32 4 30.14	W 103 35 47.64	183.38	6637.43
	18764.00	89.71	179.02	12257.07	6717.97	-6720.84	-391.24	2.49	391720.99	769543.61	N 32 4 29.20	W 103 35 47.64	183.33	6732.22
	18858.00	91.15	179.51	12256.37	6811.97	-6814.82	-390.04	1.62	391627.00	769544.82	N 32 4 28.27	W 103 35 47.63	183.28	6825.98
	18952.00	91.29	179.70	12254.37	6905.94	-6908.80	-389.39	0.25	391533.03	769545.46	N 32 4 27.34	W 103 35 47.63	183.23	6919.76
	19141.00	91.20	179.51	12250.26	7094.90	-7097.75	-388.09	0.11	391344.08	769546.77	N 32 4 25.47	W 103 35 47.63	183.13	7108.35
	19236.00	90.61	179.65	12248.76	7189.89	-7192.74	-387.39	0.64	391249.10	769547.46	N 32 4 24.53	W 103 35 47.63	183.08	7203.16
	19330.00	89.95	178.79	12248.30	7283.88	-7286.72	-386.11	1.15	391155.12	769548.74	N 32 4 23.60	W 103 35 47.62	183.03	7296.95
	19425.00	90.55	179.75	12247.89	7378.88	-7381.71	-384.90	1.19	391060.13	769549.95	N 32 4 22.66	W 103 35 47.62	182.98	7391.74
NMNM01060404 - NMNM0160973 Crossing [1949' FWL]	*19582.00*	*90.53*	*179.73*	*12246.40*	*7535.87*	*-7538.71*	*-384.19*	*0.02*	*390903.14*	*769550.66*	*N 32 4 21.11*	*W 103 35 47.62*	*182.92*	*7548.49*
	19613.00	90.53	179.73	12246.11	7566.87	-7569.70	-384.05	0.02	390872.15	769550.81	N 32 4 20.80	W 103 35 47.62	182.90	7579.44
	19707.00	90.15	180.19	12245.56	7660.87	-7663.70	-383.98	0.63	390778.15	769550.87	N 32 4 19.87	W 103 35 47.63	182.87	7673.32
	19801.00	90.18	179.51	12245.29	7754.86	-7757.70	-383.74	0.72	390684.16	769551.12	N 32 4 18.94	W 103 35 47.63	182.83	7767.19
	19896.00	90.09	180.58	12245.06	7849.86	-7852.70	-383.81	1.13	390589.16	769551.04	N 32 4 18.00	W 103 35 47.64	182.80	7862.07
	20085.00	89.53	179.61	12245.69	8038.85	-8041.69	-384.12	0.59	390400.17	769550.73	N 32 4 16.13	W 103 35 47.66	182.73	8050.86
	20179.00	90.14	180.34	12245.96	8132.84	-8135.69	-384.08	1.01	390306.18	769550.77	N 32 4 15.20	W 103 35 47.67	182.70	8144.75
	20274.00	89.88	179.99	12245.94	8227.84	-8230.69	-384.36	0.46	390211.18	769550.50	N 32 4 14.26	W 103 35 47.68	182.67	8239.66
	20368.00	89.67	179.78	12246.31	8321.84	-8324.69	-384.17	0.32	390117.18	769550.69	N 32 4 13.33	W 103 35 47.68	182.64	8333.55
	20556.00	90.65	180.54	12245.79	8509.82	-8512.69	-384.69	0.66	389929.19	769550.16	N 32 4 11.47	W 103 35 47.71	182.59	8521.37
	20650.00	90.11	177.38	12245.16	8603.80	-8606.66	-382.99	3.41	389835.23	769551.87	N 32 4 10.54	W 103 35 47.69	182.55	8615.17
	20744.00	89.33	176.56	12245.62	8697.70	-8700.52	-378.02	1.20	389741.36	769556.83	N 32 4 9.61	W 103 35 47.64	182.49	8708.73
	20838.00	89.60	177.30	12246.50	8791.60	-8794.38	-372.98	0.84	389647.51	769561.87	N 32 4 8.68	W 103 35 47.59	182.43	8802.29
	20933.00	89.35	178.52	12247.37	8886.55	-8889.31	-369.52	1.31	389552.58	769565.33	N 32 4 7.74	W 103 35 47.56	182.38	8896.99
	21027.00	91.26	179.19	12246.87	8980.53	-8983.29	-367.64	2.15	389458.61	769567.21	N 32 4 6.81	W 103 35 47.54	182.34	8990.81
	21121.00	86.97	176.57	12248.32	9074.45	-9077.18	-364.17	5.35	389364.72	769570.69	N 32 4 5.89	W 103 35 47.51	182.30	9084.49
	21215.00	91.18	179.43	12249.84	9168.37	-9171.08	-360.89	5.41	389270.82	769573.96	N 32 4 4.96	W 103 35 47.48	182.25	9178.18
	21309.00	89.26	178.45	12249.48	9262.36	-9265.06	-359.15	2.29	389176.85	769575.70	N 32 4 4.03	W 103 35 47.47	182.22	9272.02
	21404.00	89.22	177.07	12250.74	9357.30	-9359.98	-355.44	1.45	389081.93	769579.41	N 32 4 3.09	W 103 35 47.43	182.17	9366.72
	21499.00	90.23	179.51	12251.19	9452.26	-9454.93	-352.60	2.78	388986.99	769582.25	N 32 4 2.15	W 103 35 47.41	182.14	9461.50
	21593.00	87.98	178.55	12252.66	9546.24	-9548.89	-351.01	2.60	388893.02	769583.84	N 32 4 1.22	W 103 35 47.40	182.11	9555.34
	21688.00	89.45	181.01	12254.79	9641.21	-9643.86	-350.65	3.02	388798.06	769584.20	N 32 4 0.28	W 103 35 47.40	182.08	9650.23
	21782.00	89.79	178.49	12255.42	9735.20	-9737.85	-350.24	2.71	388704.07	769584.61	N 32 3 59.35	W 103 35 47.40	182.06	9744.14
	21872.00	91.11	176.38	12254.71	9825.12	-9827.75	-346.21	2.77	388614.18	769588.64	N 32 3 58.46	W 103 35 47.36	182.02	9833.84
	21963.00	88.81	173.28	12254.77	9915.79	-9918.36	-338.01	4.24	388523.57	769596.84	N 32 3 57.56	W 103 35 47.27	181.95	9924.12
Last Take Point [241' FSL, 1979' FWL]	*21975.00*	*89.18*	*173.59*	*12254.98*	*9927.72*	*-9930.28*	*-336.64*	*3.99*	*388511.65*	*769598.21*	*N 32 3 57.44*	*W 103 35 47.26*	*181.94*	*9935.99*
	22053.00	91.57	175.58	12254.48	10005.41	-10007.92	-329.28	3.99	388434.01	769605.57	N 32 3 56.67	W 103 35 47.18	181.88	10013.34
Final Survey	22087.00	89.19	173.16	12254.25	10039.26	-10041.75	-325.94	9.98	388400.18	769608.91	N 32 3 56.34	W 103 35 47.14	181.86	10047.04
TD, PTB [101' FSL, 1993' FWL]	22115.00	89.19	173.16	12254.65	10067.08	-10069.55	-322.61	0.00	388372.38	769612.24	N 32 3 56.06	W 103 35 47.11	181.84	10074.72

Survey Type: Def Survey

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

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)

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 Fed Com #155H / Final Surveys - Cimarex Red Hills 32-5 Fed Com #155H MWD 0ft-
	1	26.000	26.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS-Depth Only	Red Hills 32-5 Fed Com #155H / Final Surveys - Cimarex Red Hills 32-5 Fed Com #155H MWD 0ft-
	1	26.000	145.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS	Red Hills 32-5 Fed Com #155H / Final Surveys - Cimarex Red Hills
	1	145.000	1052.000	Act Stns	14.750	10.750	NAL_MWD_IFR1+MS	Red Hills 32-5 Fed Com #155H / Final Surveys - Cimarex Red Hills
	1	1052.000	11740.000	Act Stns	9.875	7.625	NAL_MWD_IFR1+MS	Red Hills 32-5 Fed Com #155H / Final Surveys - Cimarex Red Hills
	1	11740.000	12520.000	Act Stns	8.750	7.625	NAL_MWD_IFR1+MS	Red Hills 32-5 Fed Com #155H / Final Surveys - Cimarex Red Hills
	1	12520.000	22115.000	Act Stns	6.750	5.000	NAL_MWD_IFR1+MS	Red Hills 32-5 Fed Com #155H / Final Surveys - Cimarex Red Hills

Schlumberger

Cimarex Energy

Final PvA

CIMAREX

Borehole:	Well:	Field:	Structure:
Red Hills 32-5 Fed Com #155H	Red Hills 32-5 Fed Com #155H	NM Lea County (NAD 83)	Cimarex Red Hills 32-5 Fed Com #155H

Gravity & Magnetic Parameters						Surface Location						Miscellaneous			
Model:	HDGM 2020	Dip:	59.684°	Date:	02-Apr-2020	NAD83 New Mexico State Plane, Eastern Zone, US Feet						Slot:	New Slot	TVD Ref:	RKB(3435.8ft above MSL)
MagDec:	6.551°	FS:	47669.889nT	Gravity FS:	998.429mgn (9.80665 Based)	Lat:	N 32 5 35.68	Northing:	398441.6ftUS	Grid Conv:	0.3922°	Lon:	W 103 35 42.56	Easting:	769934.84ftUS	Scale Fact:	0.99996894	Plan:	Final Surveys - Cimarex Red Hills 32-5 Fed Com #155H MWD 0ft-22115ft (Surcon Corrected)		

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [390' FNL, 2385' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
KOP [411' FNL, 1952' FWL]	11749.00	3.26	345.88	11722.46	20.37	-23.36	-432.05	4.37
First SLB Survey	11759.00	2.85	348.64	11732.44	19.85	-22.84	-432.17	4.37
First Take Point [1985' FWL, 778' FNL]	12420.00	68.71	182.39	12224.65	387.79	-390.54	-396.53	7.62
Private Leaseline Crossing [1954' FWL]	16936.80	90.77	180.06	12263.54	4891.00	-4893.88	-398.64	0.65
Private - NMNM01060404 Crossing [1947' FWL]	18259.40	91.13	180.56	12260.02	6213.48	-6216.37	-396.54	0.97
NMNM01060404 - NMNM0160973 Crossing [1949' FWL]	19582.00	90.53	179.73	12246.40	7535.87	-7538.71	-384.19	0.02
Last Take Point [241' FSL, 1979' FWL]	21975.00	89.18	173.59	12254.98	9927.72	-9930.28	-336.64	3.99
Final Survey	22087.00	89.19	173.16	12254.25	10039.26	-10041.75	-325.94	9.98
TD, PTB [101' FSL, 1993' FWL]	22115.00	89.19	173.16	12254.65	10067.08	-10069.55	-322.61	0.00

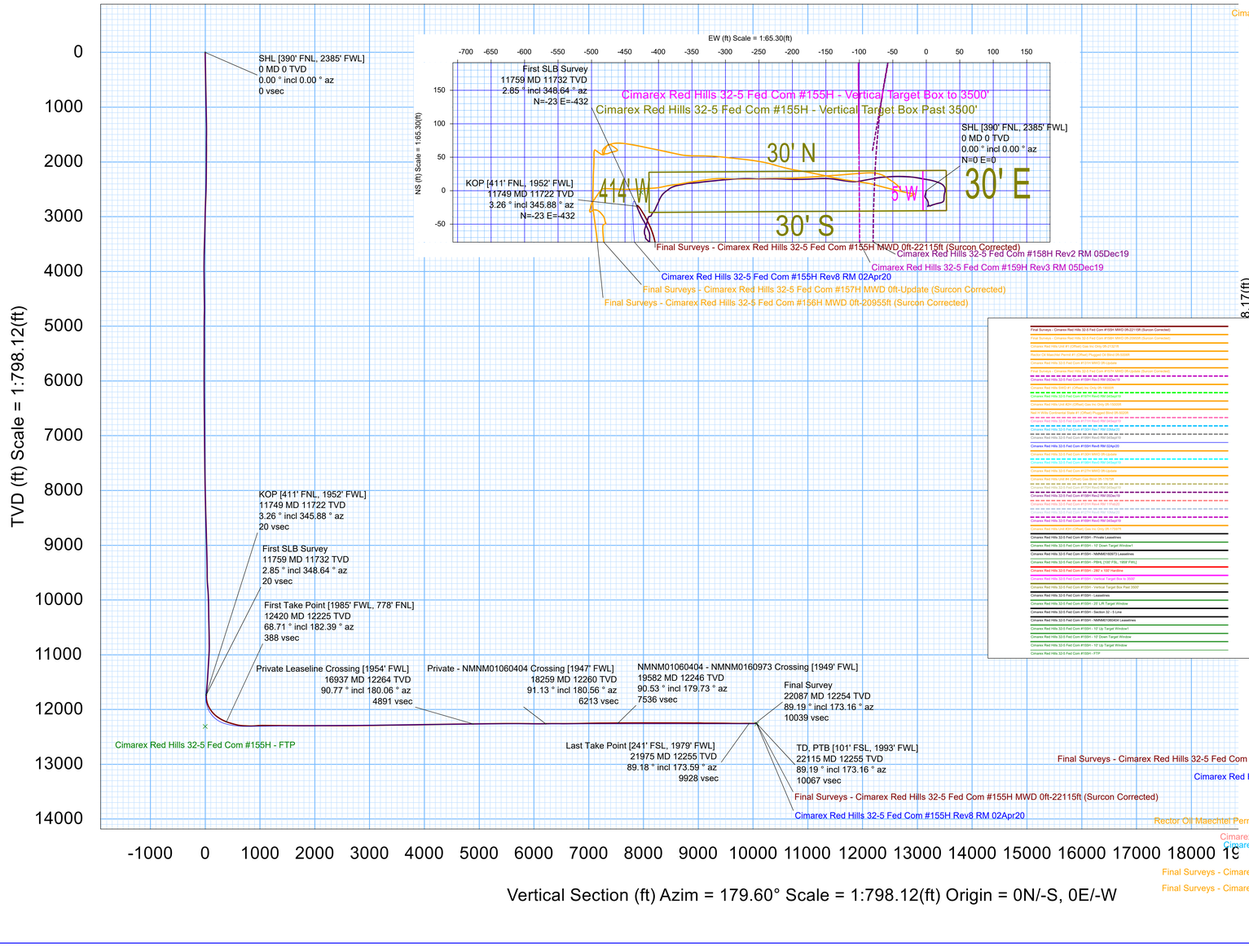
D
E
C

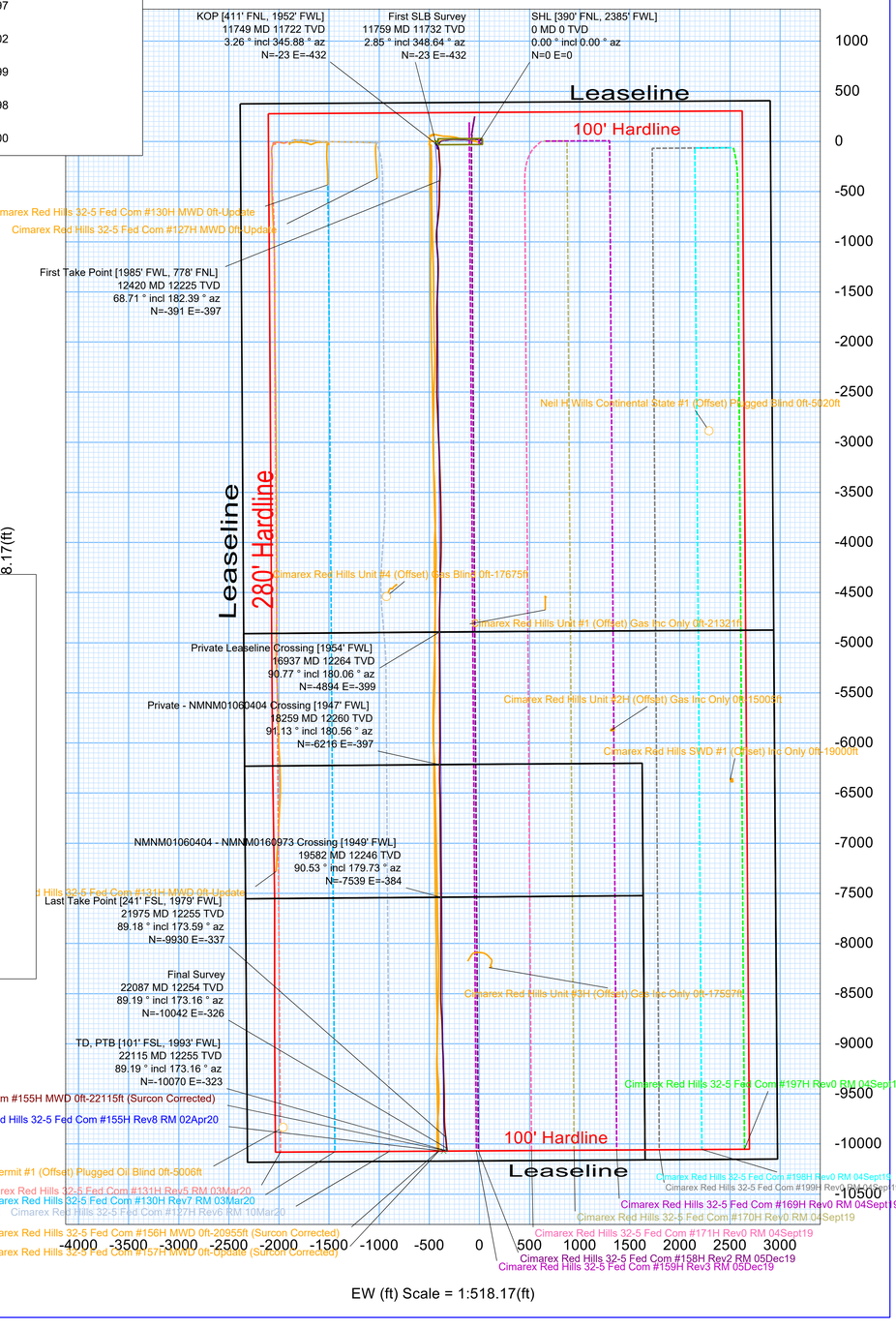
CONTROLLED

Plan ref	Final Surveys - Cimarex Red Hills 32-5 Fed Com #155H MWD 0ft-22115ft (Surcon Corrected)
Drawing ref	
Copy number	of 3
Date	17-Dec-2020

1	Client	
2	Client	
3	Office	
4	Office	

Copy number for





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

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

02/03/2021

Well Name: RED HILLS 32-5 FEDERAL COM	**Well Location:** T25S / R33E / SEC 32 / NENW / 32.093245 / -103.595155	**County or Parish/State:** LEA / NM
Well Number: 155H	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMNM0106040A	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 300254629400X1	**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: 01/29/2021

Time Sundry Submitted: 09:01

Date Operation Actually Began: 10/06/2020

Actual Procedure: Cimarex completed this well as follows: 09/09/2020 Run logs, TOC @ 11,625'. 09/09/2020 Test csg to 12,800 psi for 30 min. Good test. 10/06/2020 to 10/24/2020 Perf Wolfcamp @ 12,420'-21,975', 1283 holes, .42". Frac w/ 456,137 bbls total fluid & 23,021,496# sand. 11/18/2020 DO plugs. 11/20/2020 Finish DO plugs & CO to PBTD @ 22,061'. SI well. 12/04/2020 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: JAN 29, 2021 09:01 AM

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

City: Midland **State:** TX **Zip:** 79701

Phone: (432)620-1933

Email address: fvasquez@cimarex.com

Well Name: RED HILLS 32-5 FEDERAL COM

Well Location: T25S / R33E / SEC 32 / NENW / 32.093245 / -103.595155

County or Parish/State: LEA / NM

Well Number: 155H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM0106040A

Unit or CA Name:

Unit or CA Number:

US Well Number: 300254629400X1

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 Title: Petroleum Engineer

BLM POC Phone: 5752345972

BLM POC Email Address: jshepard@blm.gov

Disposition: Accepted

Disposition Date: 02/03/2021

Signature: Jonathon Shepard

Submit To Appropriate District Office
Two Copies
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 and Natural Resources

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

Form C-105
Revised April 3, 2017

1. WELL API NO.

2. Type of Lease
☐ STATE ☐ FEE ☐ FED/INDIAN

3. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:

☐ **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

☐ **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name

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

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

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 *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*

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 - *(Corr.)*

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

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 hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Fatima Vasquez Printed Name Title Date

E-mail Address

INSTRUCTIONS

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.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

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_____	

OIL OR GAS SANDS OR ZONES

No. 1, from……..…..….to……. No. 3, from……to…….……

No. 2, from……to…… No. 4, from……to……..

IMPORTANT WATER SANDS

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……

LITHOLOGY RECORD (Attach additional sheet if necessary)

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 20609

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Suite 600 Midland, TX79701	162683	20609	C-104C

OCD Reviewer	Condition
ksimmons	None