

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: <i>PATRICIA MARTINEZ</i>		
Title:			Title: <i>PETROLEUM SPECIALIST</i>		
E-mail Address:			Approval Date: <i>4/6/2022</i>		
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) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-43373		² Pool Code 98220		³ Pool Name Purple Sage; Wolfcamp (Gas)	
⁴ Property Code 315262		⁵ Property Name BLACK RIVER 25 FEDERAL COM			⁶ Well Number 1H
⁷ OGRID No. 215099		⁸ Operator Name CIMAREX ENERGY CO.			⁹ Elevation 3312.9'

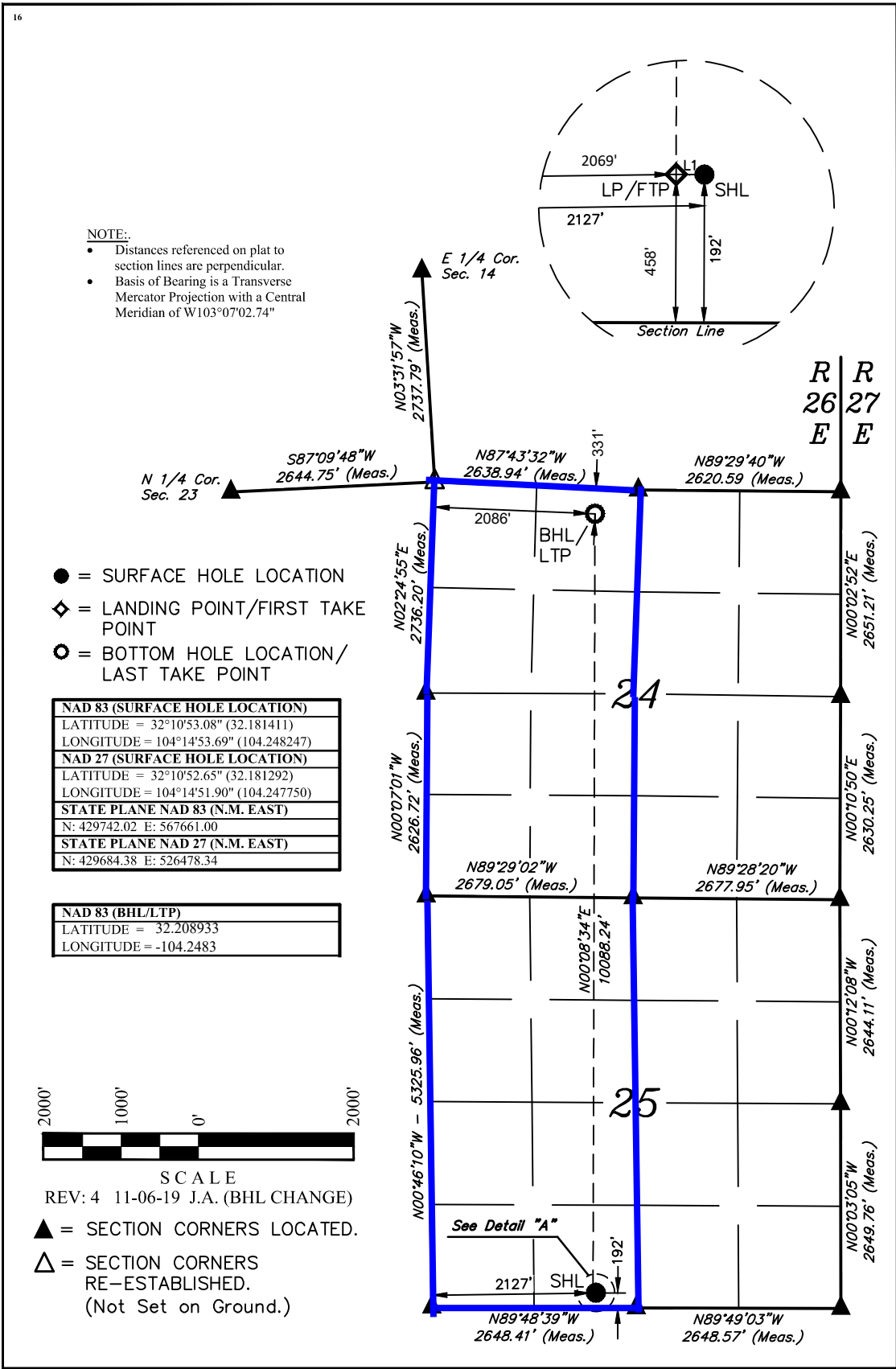
¹⁰ Surface Location

UL or lot no. N	Section 25	Township 24 S	Range 26 E	Lot Idn	Feet from the 192	North/South line SOUTH	Feet from the 2127	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. C	Section 24	Township 24 S	Range 26 E	Lot Idn	Feet from the 331	North/South line NORTH	Feet from the 2086	East/West line WEST	County EDDY
¹² Dedicated Acres 640		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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 10/21/2020
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.

August 22, 2014
Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number:



Final Surveys - Cimarex Black River 25 Federal Com 1H MWD 0ft-18678ft (Surcon Corrected) Survey Geodetic Report (Def Survey)



Report Date:	October 15, 2020 - 02:51 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	0.163 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Black River 25 Federal Com 1H / Cimarex Black River 25 Federal Com 1H	TVD Reference Datum:	RKB
Well:	Cimarex Black River 25 Federal Com 1H	TVD Reference Elevation:	3335.900 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3312.900 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.207 °
Survey Name:	Final Surveys - Cimarex Black River 25 Federal Com 1H MWD 0ft-18678ft (Surcon Corrected)	Total Gravity Field Strength:	998.4399mgn (9.80665 Based)
Survey Date:	August 08, 2019	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	198.479 ° / 10251.702 ft / 6.630 / 1.150	Total Magnetic Field Strength:	47735.037 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.802 °
Location Lat / Long:	N 32° 10' 53.07568", W 104° 14' 53.69139"	Declination Date:	February 25, 2020
Location Grid N/E Y/X:	N 429742.020 ftUS, E 567661.000 ftUS	Magnetic Declination Model:	HDGM 2019
CRS Grid Convergence Angle:	0.0453 °	North Reference:	Grid North
Grid Scale Factor:	0.99990988	Grid Convergence Used:	0.0453 °
Version / Patch:	2.10.821.3	Total Corr Mag North->Grid North:	7.1621 °
		Local Coord Referenced To:	Structure Reference Point

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 [192, FSL, 2127' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	429742.02	567661.00	N 32 10 53.08	W 104 14 53.69	0.00	0.00
	200.00	1.00	285.00	199.99	0.45	0.45	-1.69	0.50	429742.47	567659.31	N 32 10 53.08	W 104 14 53.71	285.00	1.75
	323.00	0.90	272.00	322.97	0.75	0.76	-3.69	0.19	429742.78	567657.31	N 32 10 53.08	W 104 14 53.73	281.69	3.77
	410.00	1.10	305.00	409.96	1.25	1.27	-5.05	0.69	429743.29	567655.95	N 32 10 53.09	W 104 14 53.75	284.06	5.21
	484.00	1.19	301.72	483.95	2.06	2.08	-6.29	0.15	429744.10	567654.71	N 32 10 53.10	W 104 14 53.76	288.28	6.62
	577.00	1.34	294.39	576.92	3.01	3.03	-8.10	0.24	429745.05	567652.90	N 32 10 53.11	W 104 14 53.79	290.53	8.65
	668.00	1.46	299.45	667.90	4.01	4.04	-10.08	0.19	429746.06	567650.92	N 32 10 53.12	W 104 14 53.81	291.86	10.86
	759.00	1.43	306.10	758.87	5.25	5.28	-12.01	0.19	429747.30	567648.99	N 32 10 53.13	W 104 14 53.83	293.75	13.12
	849.00	1.51	314.94	848.84	6.74	6.78	-13.75	0.27	429748.80	567647.25	N 32 10 53.14	W 104 14 53.85	296.25	15.34
	941.00	1.45	321.14	940.81	8.50	8.54	-15.34	0.19	429750.56	567645.66	N 32 10 53.16	W 104 14 53.87	299.11	17.56
	1035.00	1.30	331.34	1034.78	10.36	10.41	-16.60	0.30	429752.43	567644.40	N 32 10 53.18	W 104 14 53.88	302.08	19.59
	1129.00	1.14	337.74	1128.76	12.16	12.21	-17.47	0.22	429754.23	567643.54	N 32 10 53.20	W 104 14 53.89	304.95	21.31
	1224.00	1.77	275.52	1223.73	13.17	13.22	-19.28	1.68	429755.24	567641.72	N 32 10 53.21	W 104 14 53.92	304.44	23.38
	1318.00	1.67	255.99	1317.69	12.97	13.03	-22.06	0.63	429755.05	567638.94	N 32 10 53.20	W 104 14 53.95	300.57	25.62
	1412.00	0.76	238.76	1411.67	12.31	12.38	-23.92	1.03	429754.40	567637.08	N 32 10 53.20	W 104 14 53.97	297.36	26.93
	1507.00	0.75	229.01	1506.66	11.57	11.64	-24.93	0.14	429753.66	567636.07	N 32 10 53.19	W 104 14 53.98	295.03	27.51
	1601.00	0.59	179.35	1600.66	10.68	10.75	-25.39	0.62	429752.77	567635.61	N 32 10 53.18	W 104 14 53.99	292.96	27.57
	1694.00	1.30	125.31	1693.64	9.60	9.67	-24.52	1.15	429751.68	567636.48	N 32 10 53.17	W 104 14 53.98	291.51	26.36
	1788.00	2.15	104.09	1787.60	8.56	8.62	-21.94	1.12	429750.64	567639.06	N 32 10 53.16	W 104 14 53.95	291.45	23.57
	1882.00	2.39	98.45	1881.53	7.85	7.90	-18.29	0.35	429749.92	567642.71	N 32 10 53.15	W 104 14 53.90	293.37	19.93
	1937.00	2.25	93.46	1936.48	7.62	7.67	-16.08	0.45	429749.69	567644.92	N 32 10 53.15	W 104 14 53.88	295.50	17.82
	2072.00	2.39	86.46	2071.37	7.65	7.68	-10.63	0.23	429749.70	567650.38	N 32 10 53.15	W 104 14 53.81	305.87	13.11
	2260.00	2.39	84.36	2259.21	8.30	8.31	-2.81	0.05	429750.33	567658.19	N 32 10 53.16	W 104 14 53.72	341.31	8.77
	2354.00	0.85	60.50	2353.17	8.85	8.85	-0.25	1.75	429750.87	567660.75	N 32 10 53.16	W 104 14 53.69	358.35	8.85
	2447.00	1.18	292.21	2446.16	9.55	9.55	-0.54	1.97	429751.57	567660.46	N 32 10 53.17	W 104 14 53.70	356.76	9.56
	2541.00	1.41	279.42	2540.14	10.10	10.10	-2.58	0.39	429752.12	567658.42	N 32 10 53.18	W 104 14 53.72	345.69	10.43
	2636.00	1.41	275.54	2635.11	10.39	10.41	-4.89	0.10	429752.43	567656.11	N 32 10 53.18	W 104 14 53.75	334.82	11.50
	2730.00	1.41	277.75	2729.08	10.65	10.67	-7.19	0.06	429752.69	567653.81	N 32 10 53.18	W 104 14 53.77	326.03	12.87
	2824.00	1.29	278.52	2823.05	10.96	10.99	-9.38	0.13	429753.01	567651.62	N 32 10 53.18	W 104 14 53.80	319.50	14.45

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)
	2918.00	1.25	279.02	2917.03	11.27	11.31	-11.44	0.04	429753.32	567649.56	N 32 10 53.19	W 104 14 53.82	314.65	16.09
	3012.00	1.23	277.30	3011.01	11.56	11.59	-13.46	0.04	429753.61	567647.55	N 32 10 53.19	W 104 14 53.85	310.75	17.76
	3106.00	1.29	278.74	3104.99	11.84	11.88	-15.50	0.07	429753.90	567645.50	N 32 10 53.19	W 104 14 53.87	307.47	19.53
	3200.00	1.30	279.42	3198.96	12.17	12.22	-17.60	0.02	429754.24	567643.40	N 32 10 53.20	W 104 14 53.90	304.77	21.43
	3294.00	1.32	277.29	3292.94	12.47	12.53	-19.73	0.06	429754.55	567641.28	N 32 10 53.20	W 104 14 53.92	302.42	23.37
	3389.00	1.30	275.73	3387.91	12.71	12.78	-21.88	0.04	429754.80	567639.12	N 32 10 53.20	W 104 14 53.95	300.28	25.34
	3483.00	1.23	275.56	3481.89	12.91	12.98	-23.95	0.07	429755.00	567637.05	N 32 10 53.20	W 104 14 53.97	298.46	27.24
	3577.00	1.10	274.13	3575.87	13.07	13.14	-25.85	0.14	429755.16	567635.15	N 32 10 53.21	W 104 14 53.99	296.95	29.00
	3671.00	1.24	273.05	3669.85	13.18	13.26	-27.77	0.15	429755.28	567633.23	N 32 10 53.21	W 104 14 54.01	295.53	30.77
	3765.00	1.29	269.98	3763.83	13.23	13.32	-29.84	0.09	429755.34	567631.16	N 32 10 53.21	W 104 14 54.04	294.05	32.68
	3859.00	1.36	269.31	3857.80	13.21	13.30	-32.02	0.08	429755.32	567628.99	N 32 10 53.21	W 104 14 54.06	292.56	34.67
	3953.00	1.32	266.55	3951.78	13.13	13.22	-34.21	0.08	429755.24	567626.79	N 32 10 53.21	W 104 14 54.09	291.13	36.68
	4046.00	1.25	263.68	4044.75	12.94	13.05	-36.29	0.10	429755.07	567624.71	N 32 10 53.21	W 104 14 54.11	289.78	38.56
	4140.00	1.21	264.86	4138.73	12.74	12.85	-38.30	0.05	429754.86	567622.71	N 32 10 53.20	W 104 14 54.14	288.54	40.39
	4235.00	1.22	262.33	4233.71	12.51	12.62	-40.30	0.06	429754.64	567620.71	N 32 10 53.20	W 104 14 54.16	287.39	42.23
	4330.00	1.21	262.23	4328.69	12.23	12.35	-42.29	0.01	429754.37	567618.71	N 32 10 53.20	W 104 14 54.18	286.28	44.06
	4424.00	1.12	259.54	4422.67	11.92	12.05	-44.18	0.11	429754.07	567616.82	N 32 10 53.20	W 104 14 54.21	285.26	45.79
	4518.00	1.03	259.89	4516.65	11.60	11.73	-45.92	0.10	429753.75	567615.09	N 32 10 53.19	W 104 14 54.23	284.34	47.39
	4612.00	0.99	259.95	4610.64	11.31	11.44	-47.55	0.04	429753.46	567613.46	N 32 10 53.19	W 104 14 54.24	283.53	48.91
	4707.00	0.93	259.96	4705.63	11.03	11.17	-49.11	0.06	429753.19	567611.89	N 32 10 53.19	W 104 14 54.26	282.81	50.37
	4801.00	0.80	249.57	4799.62	10.66	10.80	-50.48	0.22	429752.82	567610.52	N 32 10 53.18	W 104 14 54.28	282.08	51.62
	4895.00	0.70	255.31	4893.61	10.28	10.43	-51.65	0.13	429752.45	567609.35	N 32 10 53.18	W 104 14 54.29	281.42	52.69
	4989.00	0.72	249.46	4987.60	9.93	10.08	-52.76	0.08	429752.10	567608.25	N 32 10 53.18	W 104 14 54.31	280.81	53.71
	5084.00	0.71	242.62	5082.59	9.44	9.60	-53.84	0.09	429751.62	567607.16	N 32 10 53.17	W 104 14 54.32	280.11	54.69
	5178.00	0.80	230.12	5176.58	8.75	8.91	-54.86	0.20	429750.93	567606.14	N 32 10 53.16	W 104 14 54.33	279.22	55.58
	5272.00	0.82	225.00	5270.58	7.85	8.01	-55.84	0.08	429750.03	567605.16	N 32 10 53.16	W 104 14 54.34	278.17	56.41
	5367.00	0.90	222.52	5365.56	6.82	6.98	-56.83	0.09	429749.00	567604.18	N 32 10 53.15	W 104 14 54.35	277.00	57.25
	5461.00	0.89	214.31	5459.55	5.67	5.83	-57.74	0.14	429747.85	567603.27	N 32 10 53.13	W 104 14 54.36	275.77	58.03
	5555.00	0.98	216.78	5553.54	4.42	4.59	-58.63	0.10	429746.61	567602.38	N 32 10 53.12	W 104 14 54.37	274.47	58.81
	5649.00	0.99	224.83	5647.53	3.20	3.37	-59.68	0.15	429745.39	567601.32	N 32 10 53.11	W 104 14 54.39	273.23	59.78
	5743.00	0.89	221.44	5741.51	2.07	2.24	-60.74	0.12	429744.26	567600.27	N 32 10 53.10	W 104 14 54.40	272.12	60.78
	5838.00	0.78	216.43	5836.50	1.00	1.17	-61.61	0.14	429743.19	567599.39	N 32 10 53.09	W 104 14 54.41	271.09	61.62
	5933.00	0.95	228.45	5931.49	-0.05	0.13	-62.58	0.26	429742.15	567598.42	N 32 10 53.08	W 104 14 54.42	270.12	62.58
	6027.00	0.89	264.25	6025.48	-0.64	-0.46	-63.89	0.60	429741.56	567597.11	N 32 10 53.07	W 104 14 54.43	269.59	63.90
	6121.00	1.21	269.06	6119.47	-0.74	-0.55	-65.61	0.35	429741.47	567595.39	N 32 10 53.07	W 104 14 54.45	269.52	65.62
	6216.00	0.43	163.39	6214.46	-1.10	-0.91	-66.51	1.46	429741.11	567594.49	N 32 10 53.07	W 104 14 54.47	269.22	66.52
	6310.00	0.80	142.21	6308.45	-1.95	-1.77	-66.01	0.46	429740.25	567594.99	N 32 10 53.06	W 104 14 54.46	268.47	66.03
	6404.00	0.92	173.77	6402.44	-3.22	-3.03	-65.53	0.51	429738.99	567595.48	N 32 10 53.05	W 104 14 54.45	267.35	65.60
	6499.00	0.94	207.52	6497.43	-4.67	-4.48	-65.80	0.57	429737.54	567595.20	N 32 10 53.03	W 104 14 54.46	266.10	65.96
	6594.00	0.69	174.28	6592.42	-5.93	-5.74	-66.11	0.55	429736.28	567594.90	N 32 10 53.02	W 104 14 54.46	265.03	66.36
	6688.00	0.68	178.39	6686.42	-7.05	-6.86	-66.04	0.05	429735.16	567594.97	N 32 10 53.01	W 104 14 54.46	264.07	66.39
	6782.00	1.04	219.24	6780.41	-8.27	-8.08	-66.56	0.73	429733.94	567594.45	N 32 10 53.00	W 104 14 54.47	263.08	67.05
	6876.00	1.09	229.54	6874.39	-9.52	-9.32	-67.78	0.21	429732.70	567593.23	N 32 10 52.98	W 104 14 54.48	262.17	68.42
	6970.00	0.39	344.27	6968.38	-9.79	-9.60	-68.55	1.39	429732.43	567592.46	N 32 10 52.98	W 104 14 54.49	262.03	69.21
	7065.00	0.73	348.31	7063.38	-8.89	-8.69	-68.76	0.36	429733.33	567592.25	N 32 10 52.99	W 104 14 54.49	262.80	69.30
	7160.00	0.63	321.82	7158.37	-7.89	-7.69	-69.20	0.34	429734.33	567591.80	N 32 10 53.00	W 104 14 54.50	263.66	69.63
	7347.00	0.67	288.82	7345.36	-6.73	-6.53	-70.87	0.20	429735.49	567590.13	N 32 10 53.01	W 104 14 54.52	264.74	71.17
	7441.00	0.87	297.10	7439.35	-6.23	-6.03	-72.03	0.24	429736.00	567588.98	N 32 10 53.02	W 104 14 54.53	265.22	72.28
	7535.00	1.29	280.12	7533.34	-5.72	-5.51	-73.70	0.56	429736.51	567587.30	N 32 10 53.02	W 104 14 54.55	265.72	73.91
	7630.00	0.65	207.65	7628.32	-6.02	-5.80	-75.01	1.32	429736.22	567586.00	N 32 10 53.02	W 104 14 54.56	265.58	75.23
	7724.00	1.23	94.75	7722.32	-6.57	-6.36	-74.25	1.70	429735.66	567586.76	N 32 10 53.01	W 104 14 54.56	265.10	74.52
	7818.00	1.61	97.85	7816.29	-6.83	-6.62	-71.94	0.41	429735.40	567589.07	N 32 10 53.01	W 104 14 54.53	264.74	72.24
	7912.00	0.50	122.88	7910.27	-7.23	-7.03	-70.28	1.25	429734.99	567590.72	N 32 10 53.01	W 104 14 54.51	264.29	70.63
	8007.00	0.99	276.86	8005.27	-7.36	-7.15	-70.75	1.53	429734.87	567590.26	N 32 10 53.01	W 104 14 54.51	264.23	71.11
	8101.00	0.37	274.76	8099.26	-7.24	-7.03	-71.86	0.66	429734.99	567589.15	N 32 10 53.01	W 104 14 54.53	264.41	72.20
	8195.00	0.20	149.25	8193.26	-7.35	-7.15	-72.08	0.55	429734.87	567588.93	N 32 10 53.01	W 104 14 54.53	264.34	72.43
First SLB Survey	8232.00	0.13	212.57	8230.26	-7.44	-7.24	-72.07	0.50	429734.78	567588.94	N 32 10 53.00	W 104 14 54.53	264.26	72.43
KOP	8295.00	0.27	44.43	8293.26	-7.40	-7.19	-72.00	0.63	429734.83	567589.01	N 32 10 53.01	W 104 14 54.53	264.30	72.36
	8326.00	2.34	11.57	8324.25	-6.72	-6.52	-71.82	6.83	429735.50	567589.18	N 32 10 53.01	W 104 14 54.53	264.81	72.12
	8357.00	6.81	3.33	8355.14	-4.27	-4.06	-71.59	14.54	429737.96	567589.42	N 32 10 53.04	W 104 14 54.52	266.75	71.70
	8388.00	10.88	2.16	8385.77	0.49	0.70	-71.37	13.14	429742.72	567589.63	N 32 10 53.08	W 104 14 54.52	270.56	71.38

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)
First Legal Take Point [458' FSL, 2069' FWL]	8420.00	14.71	1.09	8416.97	7.58	7.78	-71.18	11.99	429749.80	567589.83	N 32 10 53.15	W 104 14 54.52	276.24	71.61
	8467.00	20.60	2.84	8461.73	21.81	22.02	-70.66	12.58	429764.03	567590.35	N 32 10 53.29	W 104 14 54.51	287.31	74.01
	8513.00	26.87	5.57	8503.82	40.27	40.46	-69.25	13.83	429782.48	567591.76	N 32 10 53.48	W 104 14 54.50	300.30	80.20
	8560.00	32.52	5.90	8544.64	63.43	63.62	-66.91	12.03	429805.63	567594.09	N 32 10 53.71	W 104 14 54.47	313.55	92.33
	8608.00	37.20	3.78	8584.01	90.76	90.95	-64.63	10.07	429832.96	567596.38	N 32 10 53.98	W 104 14 54.44	324.60	111.57
	8655.00	41.47	0.47	8620.36	120.52	120.70	-63.57	10.12	429862.71	567597.44	N 32 10 54.27	W 104 14 54.43	332.23	136.42
	8702.00	46.58	359.33	8654.14	153.17	153.36	-63.64	11.00	429895.36	567597.37	N 32 10 54.59	W 104 14 54.43	337.46	166.04
	8749.00	51.59	0.36	8684.92	188.68	188.86	-63.72	10.79	429930.86	567597.28	N 32 10 54.95	W 104 14 54.43	341.36	199.32
	8796.00	56.03	2.04	8712.66	226.59	226.77	-62.91	9.88	429968.77	567598.09	N 32 10 55.32	W 104 14 54.42	344.49	235.34
	8843.00	60.97	3.77	8737.21	266.61	266.78	-60.87	10.97	430008.78	567600.14	N 32 10 55.72	W 104 14 54.40	347.15	273.64
	8891.00	64.95	4.36	8759.03	309.25	309.42	-57.83	8.36	430051.41	567603.17	N 32 10 56.14	W 104 14 54.36	349.41	314.77
	8938.00	69.22	4.54	8777.33	352.41	352.57	-54.47	9.09	430094.55	567606.53	N 32 10 56.56	W 104 14 54.32	351.22	356.75
	8985.00	74.74	3.67	8791.86	396.98	397.13	-51.28	11.88	430139.11	567609.73	N 32 10 57.01	W 104 14 54.28	352.64	400.43
	9033.00	79.59	1.55	8802.52	443.72	443.86	-49.16	10.98	430185.84	567611.85	N 32 10 57.47	W 104 14 54.26	353.68	446.58
	9081.00	84.05	0.16	8809.35	491.22	491.36	-48.45	9.72	430233.33	567612.55	N 32 10 57.94	W 104 14 54.25	354.37	493.74
	9176.00	89.43	359.38	8814.75	586.03	586.17	-48.83	5.72	430328.13	567612.17	N 32 10 58.88	W 104 14 54.25	355.24	588.20
	9242.00	90.35	359.58	8814.88	652.02	652.16	-49.43	1.43	430394.12	567611.57	N 32 10 59.53	W 104 14 54.26	355.67	654.04
	9336.00	89.14	358.21	8815.30	745.99	746.14	-51.25	1.94	430488.09	567609.76	N 32 11 0.46	W 104 14 54.28	356.07	747.90
	9430.00	89.41	358.41	8816.49	839.94	840.09	-54.02	0.36	430582.04	567606.99	N 32 11 1.39	W 104 14 54.31	356.32	841.83
	9525.00	89.35	359.23	8817.51	934.90	935.07	-55.97	0.87	430677.00	567605.03	N 32 11 2.33	W 104 14 54.33	356.57	936.74
	9619.00	89.97	0.15	8818.07	1028.90	1029.06	-56.48	1.18	430770.99	567604.52	N 32 11 3.26	W 104 14 54.34	356.86	1030.61
	9714.00	90.00	0.66	8818.10	1123.90	1124.06	-55.81	0.54	430865.98	567605.19	N 32 11 4.20	W 104 14 54.33	357.16	1125.44
	9809.00	89.56	1.03	8818.46	1218.89	1219.05	-54.41	0.61	430960.96	567606.59	N 32 11 5.14	W 104 14 54.31	357.44	1220.26
	9903.00	89.69	1.22	8819.08	1312.87	1313.03	-52.56	0.24	431054.93	567608.44	N 32 11 6.07	W 104 14 54.29	357.71	1314.08
	9997.00	89.14	0.71	8820.04	1406.86	1407.01	-50.98	0.80	431148.90	567610.02	N 32 11 7.00	W 104 14 54.27	357.92	1407.93
	10091.00	89.56	1.12	8821.10	1500.84	1500.99	-49.48	0.62	431242.87	567611.52	N 32 11 7.93	W 104 14 54.25	358.11	1501.81
	10185.00	88.55	0.68	8822.65	1594.82	1594.96	-48.00	1.17	431336.84	567613.00	N 32 11 8.86	W 104 14 54.24	358.28	1595.69
	10280.00	89.99	1.41	8823.86	1689.80	1689.94	-46.27	1.70	431431.80	567614.73	N 32 11 9.80	W 104 14 54.21	358.43	1690.57
	10375.00	89.94	1.20	8823.92	1784.78	1784.91	-44.11	0.23	431526.77	567616.90	N 32 11 10.74	W 104 14 54.19	358.58	1785.46
	10469.00	90.74	0.87	8823.36	1878.77	1878.90	-42.41	0.92	431620.74	567618.59	N 32 11 11.67	W 104 14 54.17	358.71	1879.37
	10563.00	90.66	1.20	8822.21	1972.75	1972.87	-40.71	0.36	431714.71	567620.29	N 32 11 12.60	W 104 14 54.15	358.82	1973.29
	10658.00	90.88	1.23	8820.94	2067.72	2067.84	-38.70	0.23	431809.67	567622.31	N 32 11 13.54	W 104 14 54.12	358.93	2068.21
	10847.00	89.56	1.24	8820.21	2256.69	2256.79	-34.62	0.70	431998.61	567626.38	N 32 11 15.41	W 104 14 54.07	359.12	2257.06
	10943.00	89.51	1.02	8820.99	2352.67	2352.77	-32.73	0.24	432094.58	567628.27	N 32 11 16.36	W 104 14 54.05	359.20	2353.00
	11036.00	89.85	0.54	8821.51	2445.66	2445.76	-31.47	0.63	432187.56	567629.54	N 32 11 17.28	W 104 14 54.04	359.26	2445.96
	11136.00	90.79	0.23	8820.95	2545.66	2545.76	-30.79	0.99	432287.54	567630.21	N 32 11 18.27	W 104 14 54.03	359.31	2545.94
	11230.00	89.29	0.31	8820.89	2639.66	2639.75	-30.35	1.60	432381.53	567630.65	N 32 11 19.20	W 104 14 54.02	359.34	2639.93
	11418.00	89.08	0.30	8823.56	2827.64	2827.73	-29.35	0.11	432569.49	567631.65	N 32 11 21.06	W 104 14 54.01	359.41	2827.88
	11513.00	89.45	359.63	8824.78	2922.63	2922.72	-29.41	0.81	432664.47	567631.59	N 32 11 22.00	W 104 14 54.01	359.42	2922.87
	11607.00	89.44	359.11	8825.69	3016.61	3016.71	-30.44	0.55	432758.45	567630.56	N 32 11 22.93	W 104 14 54.02	359.42	3016.87
	11701.00	89.03	0.86	8826.95	3110.60	3110.70	-30.47	1.91	432852.43	567630.54	N 32 11 23.86	W 104 14 54.02	359.44	3110.85
	11795.00	89.25	0.14	8828.36	3204.59	3204.68	-29.65	0.80	432946.41	567631.36	N 32 11 24.79	W 104 14 54.01	359.47	3204.82
	11889.00	89.23	0.01	8829.60	3298.58	3298.68	-29.52	0.14	433040.39	567631.48	N 32 11 25.72	W 104 14 54.00	359.49	3298.81
	11984.00	89.21	0.24	8830.90	3393.57	3393.67	-29.32	0.24	433135.37	567631.69	N 32 11 26.66	W 104 14 54.00	359.51	3393.79
	12078.00	89.13	0.41	8832.26	3487.56	3487.66	-28.78	0.20	433229.35	567632.22	N 32 11 27.59	W 104 14 53.99	359.53	3487.77
	12172.00	89.04	0.10	8833.76	3581.55	3581.64	-28.36	0.34	433323.33	567632.64	N 32 11 28.52	W 104 14 53.99	359.55	3581.76
	12266.00	90.72	1.63	8833.96	3675.53	3675.63	-26.95	2.42	433417.31	567634.06	N 32 11 29.45	W 104 14 53.97	359.58	3675.72
	12360.00	89.18	0.56	8834.04	3769.52	3769.60	-25.15	1.99	433511.28	567635.85	N 32 11 30.38	W 104 14 53.95	359.62	3769.69
	12454.00	89.19	359.43	8835.38	3863.51	3863.59	-25.16	1.20	433605.26	567635.84	N 32 11 31.31	W 104 14 53.95	359.63	3863.68
	12549.00	89.28	358.74	8836.64	3958.48	3958.57	-26.67	0.73	433700.23	567634.33	N 32 11 32.25	W 104 14 53.97	359.61	3958.66
	12643.00	89.28	0.29	8837.82	4052.46	4052.56	-27.47	1.65	433794.21	567633.53	N 32 11 33.18	W 104 14 53.97	359.61	4052.65
	12736.00	89.21	0.29	8839.05	4145.46	4145.55	-27.00	0.08	433887.19	567634.00	N 32 11 34.10	W 104 14 53.97	359.63	4145.64
	12830.00	89.28	0.26	8840.29	4239.45	4239.54	-26.55	0.08	433981.17	567634.45	N 32 11 35.03	W 104 14 53.96	359.64	4239.62
	12925.00	89.59	359.24	8841.23	4334.44	4334.53	-26.96	1.12	434076.15	567634.04	N 32 11 35.97	W 104 14 53.97	359.64	4334.62
	13019.00	89.19	358.65	8842.23	4428.41	4428.51	-28.69	0.76	434170.12	567632.31	N 32 11 36.90	W 104 14 53.98	359.63	4428.60
	13113.00	89.24	358.62	8843.51	4522.37	4522.48	-30.93	0.06	434264.08	567630.07	N 32 11 37.83	W 104 14 54.01	359.61	4522.58
	13207.00	89.10	358.29	8844.88	4616.32	4616.43	-33.47	0.38	434358.03	567627.54	N 32 11 38.76	W 104 14 54.04	359.58	4616.55
	13302.00	89.22	358.49	8846.27	4711.26	4711.38	-36.14	0.25	434452.97	567624.87	N 32 11 39.70	W 104 14 54.07	359.56	4711.52
	13397.00	89.15	359.16	8847.62	4806.23	4806.35	-38.08	0.71	434547.93	567622.92	N 32 11 40.64	W 104 14 54.09	359.55	4806.50
	13492.00	89.09	0.19	8849.08	4901.21	4901.34	-38.62	1.09	434642.91	567622.38	N 32 11 41.58	W 104 14 54.10	359.55	4901.49

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)
Section Line Crossing [2163' FWL]	13586.00	89.19	0.54	8850.49	4995.20	4995.33	-38.02	0.39	434736.89	567622.98	N 32 11 42.51	W 104 14 54.09	359.56	4995.47
	13680.00	89.60	0.64	8851.48	5089.19	5089.32	-37.06	0.45	434830.87	567623.95	N 32 11 43.44	W 104 14 54.08	359.58	5089.45
	13711.20	89.54	0.69	8851.72	5120.39	5120.51	-36.69	0.26	434862.06	567624.31	N 32 11 43.74	W 104 14 54.07	359.59	5120.64
	13774.00	89.42	0.80	8852.29	5183.18	5183.31	-35.87	0.26	434924.85	567625.13	N 32 11 44.37	W 104 14 54.06	359.60	5183.43
	13869.00	89.26	0.23	8853.38	5278.17	5278.29	-35.02	0.62	435019.83	567625.98	N 32 11 45.31	W 104 14 54.05	359.62	5278.41
	13963.00	89.52	0.77	8854.38	5372.17	5372.29	-34.20	0.64	435113.81	567626.80	N 32 11 46.24	W 104 14 54.04	359.64	5372.39
	14057.00	89.11	0.55	8855.51	5466.16	5466.27	-33.12	0.49	435207.79	567627.89	N 32 11 47.17	W 104 14 54.03	359.65	5466.37
	14152.00	89.04	359.85	8857.04	5561.14	5561.26	-32.79	0.74	435302.77	567628.22	N 32 11 48.11	W 104 14 54.02	359.66	5561.36
	14339.00	89.43	0.14	8859.54	5748.13	5748.24	-32.80	0.26	435489.73	567628.20	N 32 11 49.96	W 104 14 54.02	359.67	5748.34
	14434.00	88.95	359.88	8860.88	5843.11	5843.23	-32.79	0.57	435584.71	567628.22	N 32 11 50.90	W 104 14 54.02	359.68	5843.32
	14528.00	89.23	359.80	8862.37	5937.10	5937.22	-33.05	0.31	435678.69	567627.96	N 32 11 51.83	W 104 14 54.02	359.68	5937.31
	14622.00	88.36	359.82	8864.35	6031.08	6031.20	-33.36	0.93	435772.66	567627.64	N 32 11 52.76	W 104 14 54.02	359.68	6031.29
	14716.00	88.32	358.97	8867.07	6125.03	6125.15	-34.35	0.90	435866.61	567626.65	N 32 11 53.69	W 104 14 54.03	359.68	6125.25
	14810.00	90.63	359.64	8867.93	6219.01	6219.13	-35.49	2.56	435960.58	567625.51	N 32 11 54.62	W 104 14 54.05	359.67	6219.24
	14904.00	88.92	359.95	8868.30	6313.00	6313.13	-35.83	1.85	436054.57	567625.18	N 32 11 55.55	W 104 14 54.05	359.67	6313.23
	14998.00	88.02	359.36	8870.81	6406.96	6407.09	-36.39	1.14	436148.52	567624.61	N 32 11 56.48	W 104 14 54.06	359.67	6407.20
	15092.00	89.72	360.00	8872.67	6500.94	6501.07	-36.92	1.93	436242.49	567624.09	N 32 11 57.41	W 104 14 54.06	359.67	6501.17
	15186.00	88.73	0.67	8873.94	6594.93	6595.06	-36.37	1.27	436336.47	567624.63	N 32 11 58.34	W 104 14 54.05	359.68	6595.16
	15280.00	89.12	359.85	8875.70	6688.91	6689.04	-35.94	0.97	436430.44	567625.06	N 32 11 59.27	W 104 14 54.05	359.69	6689.13
	15375.00	89.30	0.26	8877.01	6783.90	6784.03	-35.85	0.47	436525.42	567625.15	N 32 12 0.21	W 104 14 54.05	359.70	6784.12
	15469.00	89.24	0.39	8878.21	6877.89	6878.02	-35.32	0.15	436619.41	567625.69	N 32 12 1.14	W 104 14 54.04	359.71	6878.11
	15564.00	89.22	359.93	8879.48	6972.88	6973.01	-35.05	0.48	436714.39	567625.95	N 32 12 2.08	W 104 14 54.04	359.71	6973.10
	15658.00	89.68	0.28	8880.39	7066.88	7067.01	-34.88	0.61	436808.37	567626.12	N 32 12 3.01	W 104 14 54.03	359.72	7067.09
	15752.00	89.50	0.32	8881.06	7160.88	7161.00	-34.39	0.20	436902.36	567626.61	N 32 12 3.94	W 104 14 54.03	359.72	7161.08
	15846.00	89.81	0.44	8881.63	7254.87	7255.00	-33.77	0.35	436996.35	567627.24	N 32 12 4.87	W 104 14 54.02	359.73	7255.08
	15940.00	90.94	0.56	8881.01	7348.87	7348.99	-32.94	1.21	437090.33	567628.06	N 32 12 5.80	W 104 14 54.01	359.74	7349.06
	16035.00	90.27	359.56	8880.01	7443.86	7443.98	-32.85	1.27	437185.32	567628.16	N 32 12 6.74	W 104 14 54.01	359.75	7444.06
	16129.00	89.46	359.59	8880.23	7537.85	7537.98	-33.54	0.86	437279.31	567627.46	N 32 12 7.67	W 104 14 54.01	359.75	7538.05
	16223.00	89.30	359.94	8881.25	7631.85	7631.97	-33.93	0.41	437373.29	567627.08	N 32 12 8.60	W 104 14 54.02	359.75	7632.05
	16316.00	89.77	359.94	8882.00	7724.84	7724.97	-34.03	0.51	437466.28	567626.98	N 32 12 9.52	W 104 14 54.02	359.75	7725.05
	16411.00	89.76	0.28	8882.39	7819.84	7819.97	-33.84	0.36	437561.27	567627.16	N 32 12 10.46	W 104 14 54.01	359.75	7820.04
	16505.00	89.99	0.19	8882.60	7913.84	7913.97	-33.46	0.26	437655.26	567627.55	N 32 12 11.39	W 104 14 54.01	359.76	7914.04
	16600.00	89.66	359.93	8882.89	8008.84	8008.97	-33.36	0.44	437750.25	567627.64	N 32 12 12.33	W 104 14 54.01	359.76	8009.04
	16694.00	89.08	0.26	8883.92	8102.83	8102.96	-33.20	0.71	437844.23	567627.80	N 32 12 13.26	W 104 14 54.00	359.77	8103.03
	16788.00	89.02	0.39	8885.48	8196.82	8196.95	-32.67	0.15	437938.21	567628.33	N 32 12 14.19	W 104 14 54.00	359.77	8197.01
	16882.00	89.16	359.18	8886.97	8290.80	8290.93	-33.02	1.30	438032.19	567627.98	N 32 12 15.12	W 104 14 54.00	359.77	8291.00
	16971.00	89.26	359.23	8888.20	8379.78	8379.92	-34.26	0.13	438121.16	567626.75	N 32 12 16.00	W 104 14 54.01	359.77	8379.99
	17066.00	89.24	359.48	8889.44	8474.77	8474.90	-35.33	0.26	438216.14	567625.68	N 32 12 16.94	W 104 14 54.02	359.76	8474.97
	17160.00	89.21	0.32	8890.71	8568.76	8568.89	-35.49	0.89	438310.12	567625.51	N 32 12 17.87	W 104 14 54.03	359.76	8568.97
	17254.00	89.48	0.65	8891.79	8662.75	8662.88	-34.69	0.45	438404.10	567626.31	N 32 12 18.80	W 104 14 54.02	359.77	8662.95
	17349.00	89.25	0.40	8892.84	8757.74	8757.87	-33.82	0.36	438499.09	567627.18	N 32 12 19.74	W 104 14 54.00	359.78	8757.94
	17443.00	89.01	0.88	8894.27	8851.73	8851.85	-32.77	0.57	438593.06	567628.23	N 32 12 20.67	W 104 14 53.99	359.79	8851.92
	17631.00	89.61	0.12	8896.53	9039.71	9039.83	-31.13	0.52	438781.02	567629.87	N 32 12 22.53	W 104 14 53.97	359.80	9039.89
	17724.00	87.77	359.78	8898.66	9132.68	9132.80	-31.21	2.01	438873.98	567629.79	N 32 12 23.45	W 104 14 53.97	359.80	9132.86
	17819.00	88.58	359.68	8901.68	9227.63	9227.75	-31.66	0.86	438968.92	567629.34	N 32 12 24.39	W 104 14 53.97	359.80	9227.81
	17913.00	89.99	0.60	8902.86	9321.62	9321.74	-31.43	1.79	439062.90	567629.57	N 32 12 25.32	W 104 14 53.97	359.81	9321.80
	18006.00	89.53	1.51	8903.25	9414.60	9414.72	-29.72	1.10	439155.88	567631.28	N 32 12 26.24	W 104 14 53.95	359.82	9414.77
	18101.00	88.95	0.16	8904.51	9509.58	9509.70	-28.34	1.55	439250.85	567632.67	N 32 12 27.18	W 104 14 53.93	359.83	9509.75
	18195.00	88.92	359.74	8906.25	9603.57	9603.69	-28.42	0.45	439344.82	567632.58	N 32 12 28.11	W 104 14 53.93	359.83	9603.73
	18289.00	88.85	359.99	8908.08	9697.55	9697.67	-28.64	0.28	439438.80	567632.36	N 32 12 29.04	W 104 14 53.94	359.83	9697.71
	18382.00	88.83	359.92	8909.96	9790.53	9790.65	-28.71	0.08	439531.77	567632.29	N 32 12 29.96	W 104 14 53.94	359.83	9790.69
	18476.00	90.44	1.13	8910.56	9884.52	9884.64	-27.85	2.14	439625.75	567633.15	N 32 12 30.89	W 104 14 53.92	359.84	9884.68
	18570.00	90.48	1.40	8909.81	9978.50	9978.61	-25.78	0.29	439719.71	567635.23	N 32 12 31.82	W 104 14 53.90	359.85	9978.65
Last Legal Take Point [404' FNL, 2088' FWL]	18605.00	89.54	0.94	8909.80	10013.49	10013.61	-25.06	2.99	439754.70	567635.94	N 32 12 32.16	W 104 14 53.89	359.86	10013.64
Final Survey	18643.00	88.52	0.44	8910.45	10051.49	10051.60	-24.60	2.99	439792.69	567636.40	N 32 12 32.54	W 104 14 53.89	359.86	10051.63

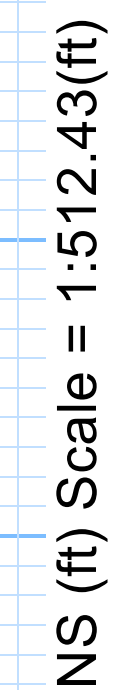
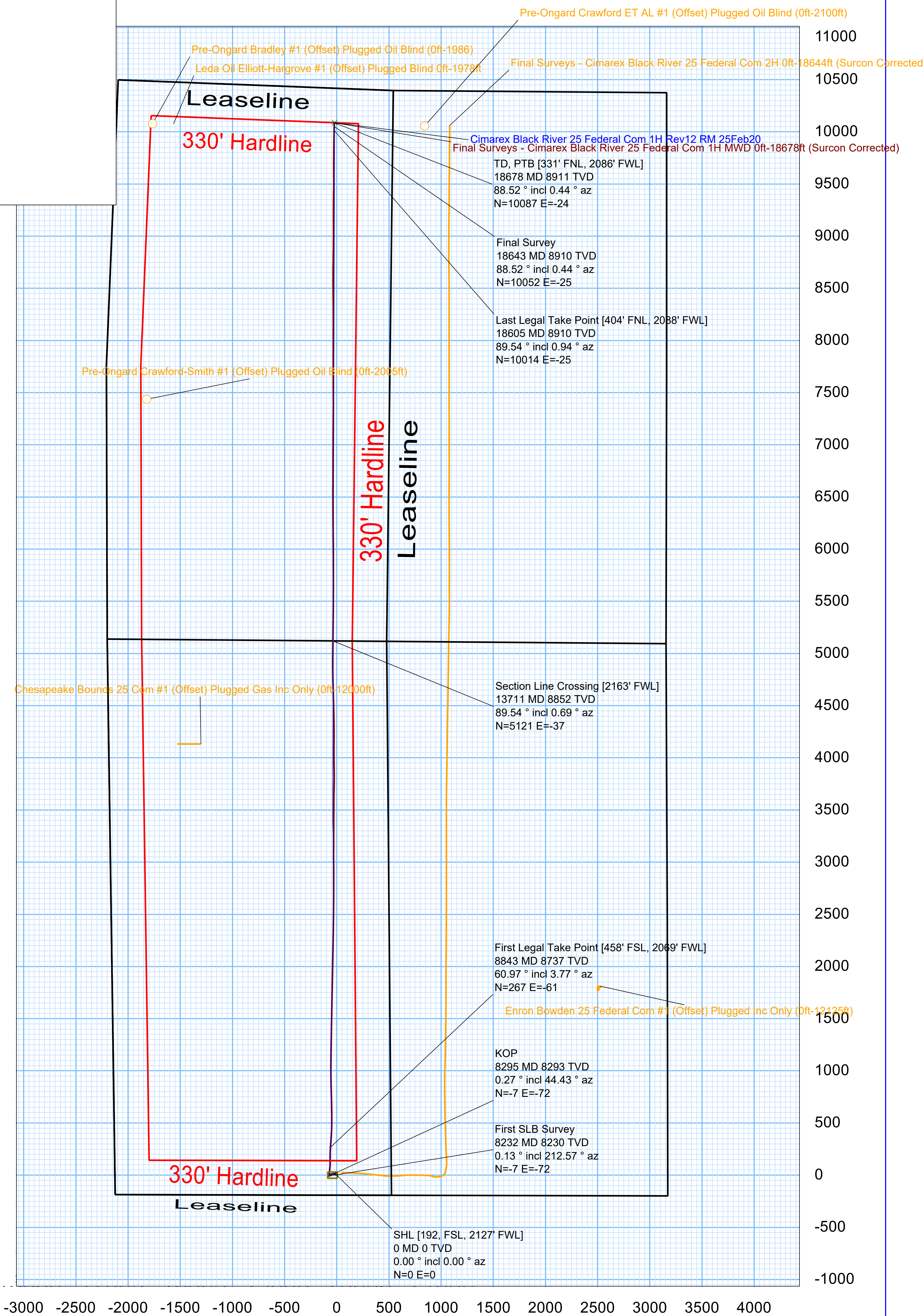
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure Azimuth (°)	Closure (ft)
TD, PTB [331' FNL, 2086' FWL]	18678.00	88.52	0.44	8911.35	10086.47	10086.58	-24.34	0.01	439827.67	567636.67	N 32 12 32.88	W 104 14 53.88	359.86	10086.61

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	23.000	1/98.425	17.500	13.375	NAL_MWD_IFR1+MS-Depth Only	Original Borehole / Final Surveys - Cimarex Black River 25 Federal Com 1H MWD 0ft-18678ft (Surcon
	1	23.000	23.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS-Depth Only	Original Borehole / Final Surveys - Cimarex Black River 25 Federal Com 1H MWD 0ft-18678ft (Surcon
	1	23.000	410.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS	Original Borehole / Final Surveys - Cimarex Black River 25 Federal
	1	410.000	2007.000	Act Stns	12.250	9.625	NAL_MWD_IFR1+MS	Original Borehole / Final Surveys - Cimarex Black River 25 Federal
	1	2007.000	8260.000	Act Stns	8.750	7.000	NAL_MWD_IFR1+MS	Original Borehole / Final Surveys - Cimarex Black River 25 Federal
	1	8260.000	18678.000	Act Stns	8.500	7.000	NAL_MWD_IFR1+MS	Original Borehole / Final Surveys - Cimarex Black River 25 Federal

	Critical Points							
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [192, FSL, 2127' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
First SLB Survey	8232.00	0.13	212.57	8230.26	-7.44	-7.24	-72.07	0.50
KOP	8295.00	0.27	44.43	8293.26	-7.40	-7.19	-72.00	0.63
First Legal Take Point [458' FSL, 2069' FWL]	8843.00	60.97	3.77	8737.21	266.61	266.78	-60.87	10.97
Section Line Crossing [2163' FWL]	13711.20	89.54	0.69	8851.72	5120.39	5120.51	-36.69	0.26
Last Legal Take Point [404' FNL, 2088' FWL]	18605.00	89.54	0.94	8909.80	10013.49	10013.61	-25.06	2.99
Final Survey	18643.00	88.52	0.44	8910.45	10051.49	10051.60	-24.60	2.99
TD, PTB [331' FNL, 2086' FWL]	18678.00	88.52	0.44	8911.35	10086.47	10086.58	-24.34	0.01



Intent ☐ As Drilled ☒

API # 30-015-43373		
Operator Name: Cimarex Energy Co.	Property Name: Black River 25 Federal Com	Well Number 1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	25	24S	26E		184	South	2055	West	Eddy
Latitude 32.181392					Longitude -104.248481				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	25	24S	26E		458	South	2069	West	Eddy
Latitude 32.182144					Longitude -104.248444				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	24	24S	26E		404	North	2088	West	Eddy
Latitude 32.208933					Longitude -104.248303				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ NoIs this well an infill well? ☐ Yes

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-015-43377		
Operator Name: Cimarex Energy Co.	Property Name: Black River 25 Federal	Well Number 2H

KZ 06/29/2018

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.	NMNM132062
---------------------	------------

[illegible]

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

[illegible]

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
3.500	8148	8148						

25. Producing Intervals

20. Producing Intervals			21. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	8800		8843 TO 18605	0.420	1288	PRODUCING
B)						
C)						
D)						

26. Perforation Record

20. Producing Intervals			21. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	8800		8843 TO 18605	0.420	1288	PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
8843 TO 18605	463,988 BBLS TOTAL FLUID & 22,989,885# SAND

28. Production - Interval A

Date First Produced 10/12/2020	Test Date 10/22/2020	Hours Tested 24	Test Production 	Oil BBL 877.0	Gas MCF 2290.0	Water BBL 6930.0	Oil Gravity Corr. API 45.7	Gas Gravity	Production Method GAS LIFT
Choke Size 84	Tbg. Press. Flwg. SI 678	Csg. Press. 520.0	24 Hr. Rate 	Oil BBL 877	Gas MCF 2290	Water BBL 6930	Gas:Oil Ratio 2611	Well Status PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production 	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate 	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

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

ELECTRONIC SUBMISSION #536050 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

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

SOLD

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
RUSTLER	480	750	DOLOMITE/ANHYDRITE: WATER	RUSTLER	480
TOP OF SALT	750	1685	SALT: BARREN	TOP OF SALT	750
LAMAR	1685	1690	SHALE: WATER	BELL CANYON	1690
BELL CANYON	1690	2693	SANDSTAONE: WATER	CHERRY CANYON	2693
CHERRY CANYON	2693	3700	SANDSTAONE: WATER	BRUSHY CANYON	3700
BRUSHY CANYON	3700	5242	SANDSTAONE: WATER	BONE SPRING	5242
BONE SPRING	5242	8474	LS/SHALE/SS: OIL, WATER, GAS	WOLFCAMP	8474
WOLFCAMP	8474		SHALE: OIL, WATER, GAS		

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

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

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

**Electronic Submission #536050 Verified by the BLM Well Information System.
For CIMAREX ENERGY COMPANY, sent to the Carlsbad**

Name (please print) FATIMA VASQUEZTitle REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 10/30/2020

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.

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

District I

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

District II

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

District III

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

District IV

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

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

ACKNOWLEDGMENTS

Action 92505

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 92505
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

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

District I
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
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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 92505

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 92505
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	4/6/2022