

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

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address		² OGRID Number	
		³ Reason for Filing Code/ Effective Date	
⁴ API Number	⁵ Pool Name		⁶ Pool Code
⁷ Property Code	⁸ Property Name		⁹ Well Number

II. ¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
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¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code	¹³ Producing Method Code		¹⁴ Gas Connection Date		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

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

IV. Well Completion Data

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

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Fatima Vasquez</i>			OIL CONSERVATION DIVISION		
Printed name:			Approved by: KURT SIMMONS		
Title:			Title: NMOCD, SANTA FE		
E-mail Address:			Approval Date: 02/17/2021		
Date:		Phone:			

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 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 APT Number 30-015-46502	² Pool Code 96415	³ Pool Name Willow Lake; Bone Spring
⁴ Property Code 320797	⁵ Property Name CRAWFORD 27-26 FEE	⁶ Well Number 16H
⁷ GRID No. 215099	⁸ Operator Name CIMAREX ENERGY CO.	⁹ Elevation 3331.1'

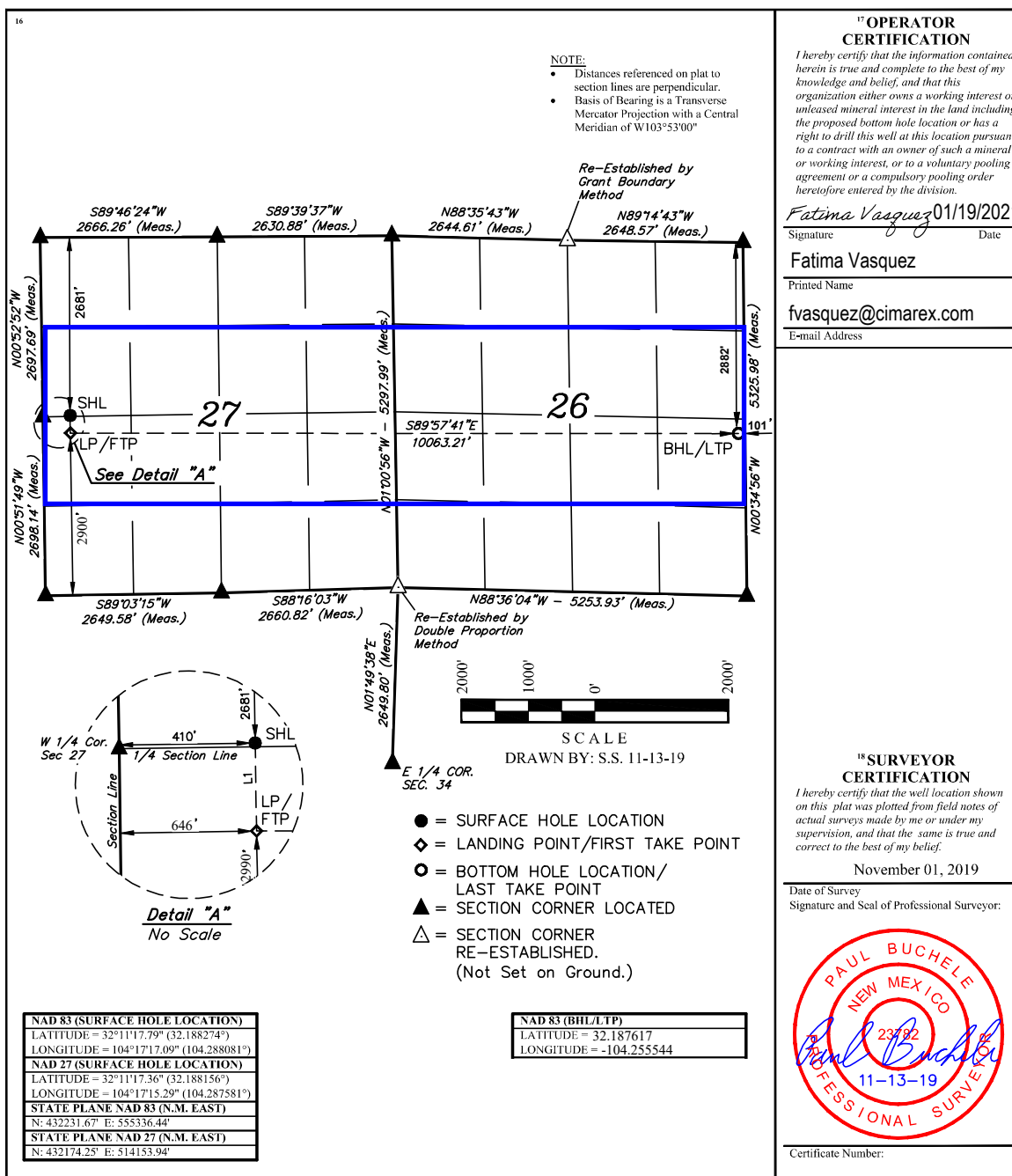
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	27	24S	26E		2681	NORTH	410	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	26	24S	26E		2882	NORTH	101	EAST	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.





Final Surveys - Cimarex Crawford 27-26 Fee #16H MWD 0ft-18205ft (Surcon Corrected) Survey Geodetic Report (Def Survey)



Report Date:	December 17, 2020 - 10:35 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex Energy	Vertical Section Azimuth:	90.158 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Crawford 27-26 Fee #16H / New Slot	TVD Reference Datum:	RKB
Well:	Crawford 27-26 Fee #16H	TVD Reference Elevation:	3354.100 ft above MSL
Borehole:	Crawford 27-26 Fee #16H	Seabed / Ground Elevation:	3331.100 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.228 °
Survey Name:	Final Surveys - Cimarex Crawford 27-26 Fee #16H MWD 0ft-18205ft (Surcon Corrected)	Total Gravity Field Strength:	998.4461mgn (9.80665 Based)
Survey Date:	January 20, 2020	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	192.433 ° / 10405.045 ft / 6.628 / 1.213	Total Magnetic Field Strength:	47722.727 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.791 °
Location Lat / Long:	N 32° 11' 17.78745", W 104° 17' 17.09164"	Declination Date:	February 19, 2020
Location Grid N/E Y/X:	N 432231.670 ftUS, E 555336.440 ftUS	Magnetic Declination Model:	HDGM 2019
CRS Grid Convergence Angle:	0.0241 °	North Reference:	Grid North
Grid Scale Factor:	0.99990932	Grid Convergence Used:	0.0241 °
Version / Patch:	2.10.824.0	Total Corr Mag North->Grid North:	7.2036 °
		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 [2681' FNL, 410' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	432231.67	555336.44	N 32 11 17.79	W 104 17 17.09	0.00	0.00
	117.00	0.79	73.60	117.00	0.77	0.23	0.77	0.68	432231.90	555337.21	N 32 11 17.79	W 104 17 17.08	73.60	0.81
	207.00	0.70	291.57	206.99	0.86	0.61	0.86	1.57	432232.27	555337.30	N 32 11 17.79	W 104 17 17.08	54.80	1.05
	306.00	0.75	278.56	305.99	-0.35	0.92	-0.35	0.17	432232.59	555336.09	N 32 11 17.80	W 104 17 17.10	339.50	0.99
	340.00	0.75	287.52	339.98	-0.78	1.02	-0.78	0.34	432232.69	555335.66	N 32 11 17.80	W 104 17 17.10	322.78	1.29
	426.00	1.04	284.98	425.97	-2.07	1.40	-2.07	0.34	432233.06	555334.37	N 32 11 17.80	W 104 17 17.12	304.00	2.49
	489.00	1.12	280.14	488.96	-3.23	1.65	-3.23	0.19	432233.32	555333.21	N 32 11 17.80	W 104 17 17.13	297.10	3.62
	583.00	1.33	283.03	582.94	-5.20	2.06	-5.19	0.23	432233.73	555331.25	N 32 11 17.81	W 104 17 17.15	291.62	5.59
	676.00	1.39	275.63	675.91	-7.37	2.41	-7.37	0.20	432234.08	555329.07	N 32 11 17.81	W 104 17 17.18	288.13	7.75
	768.00	1.50	268.55	767.88	-9.69	2.49	-9.68	0.23	432234.16	555326.76	N 32 11 17.81	W 104 17 17.20	284.43	10.00
	861.00	1.55	266.89	860.85	-12.16	2.39	-12.15	0.07	432234.06	555324.29	N 32 11 17.81	W 104 17 17.23	281.14	12.39
	954.00	1.57	267.27	953.82	-14.69	2.26	-14.68	0.02	432233.93	555321.76	N 32 11 17.81	W 104 17 17.26	278.77	14.86
	1048.00	1.13	164.95	1047.80	-15.73	1.31	-15.73	2.26	432232.98	555320.71	N 32 11 17.80	W 104 17 17.27	274.75	15.78
	1143.00	3.65	137.69	1142.71	-13.44	-1.83	-13.45	2.84	432229.84	555322.99	N 32 11 17.77	W 104 17 17.25	262.24	13.57
	1238.00	4.05	141.43	1237.50	-9.30	-6.69	-9.32	0.50	432224.98	555327.12	N 32 11 17.72	W 104 17 17.20	234.32	11.48
	1333.00	4.01	129.44	1332.26	-4.63	-11.43	-4.67	0.89	432220.24	555331.77	N 32 11 17.67	W 104 17 17.15	202.21	12.34
	1428.00	3.70	111.32	1427.05	0.80	-14.65	0.76	1.32	432217.02	555337.20	N 32 11 17.64	W 104 17 17.08	177.05	14.67
	1522.00	3.96	96.25	1520.85	6.85	-16.11	6.81	1.10	432215.56	555343.25	N 32 11 17.63	W 104 17 17.01	157.09	17.49
	1616.00	3.05	68.96	1614.68	12.41	-15.56	12.37	1.99	432216.11	555348.81	N 32 11 17.63	W 104 17 16.95	141.52	19.88
	1714.00	2.67	63.75	1712.55	16.89	-13.62	16.85	0.47	432218.05	555353.29	N 32 11 17.65	W 104 17 16.90	128.94	21.66
	1812.00	2.46	61.52	1810.45	20.78	-11.60	20.74	0.24	432220.07	555357.18	N 32 11 17.67	W 104 17 16.85	119.22	23.77
	1908.00	0.32	7.98	1906.42	22.62	-10.36	22.59	2.38	432221.31	555359.03	N 32 11 17.68	W 104 17 16.83	114.63	24.85
	2001.00	2.28	235.51	1999.40	21.13	-11.15	21.10	2.70	432220.52	555357.54	N 32 11 17.68	W 104 17 16.85	117.84	23.87
	2096.00	2.60	231.92	2094.31	17.89	-13.55	17.85	0.37	432218.13	555354.29	N 32 11 17.65	W 104 17 16.88	127.19	22.41
	2190.00	2.66	229.85	2188.21	14.55	-16.27	14.51	0.12	432215.40	555350.94	N 32 11 17.63	W 104 17 16.92	138.28	21.80
	2285.00	2.65	230.40	2283.11	11.18	-19.09	11.13	0.03	432212.58	555347.57	N 32 11 17.60	W 104 17 16.96	149.76	22.10
	2379.00	2.71	226.65	2377.01	7.90	-22.00	7.84	0.20	432209.67	555344.28	N 32 11 17.57	W 104 17 17.00	160.39	23.35
	2474.00	2.89	225.61	2471.90	4.56	-25.22	4.49	0.20	432206.46	555340.93	N 32 11 17.54	W 104 17 17.04	169.90	25.61
	2568.00	3.01	227.50	2565.77	1.06	-28.54	0.98	0.16	432203.13	555337.42	N 32 11 17.51	W 104 17 17.08	178.03	28.56
	2663.00	3.09	229.26	2660.64	-2.71	-31.90	-2.80	0.13	432199.78	555333.64	N 32 11 17.47	W 104 17 17.12	185.01	32.02
	2757.00	4.46	216.01	2754.43	-6.77	-36.51	-6.87	1.72	432195.17	555329.57	N 32 11 17.43	W 104 17 17.17	190.65	37.15

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)
	2851.00	5.75	199.06	2848.06	-10.43	-43.92	-10.55	2.10	432187.76	555325.89	N 32 11 17.35	W 104 17 17.21	193.51	45.17
	2945.00	6.73	190.33	2941.51	-12.93	-53.79	-13.08	1.45	432177.89	555323.36	N 32 11 17.26	W 104 17 17.24	193.67	55.35
	3041.00	7.06	187.21	3036.81	-14.65	-65.17	-14.83	0.52	432166.50	555321.61	N 32 11 17.14	W 104 17 17.26	192.82	66.84
	3136.00	8.04	181.04	3130.99	-15.47	-77.61	-15.68	1.34	432154.07	555320.76	N 32 11 17.02	W 104 17 17.27	191.42	79.18
	3230.00	7.86	181.47	3224.09	-15.72	-90.61	-15.97	0.20	432141.07	555320.48	N 32 11 16.89	W 104 17 17.28	189.99	92.00
	3324.00	7.77	182.02	3317.21	-16.07	-103.38	-16.36	0.12	432128.30	555320.09	N 32 11 16.76	W 104 17 17.28	188.99	104.67
	3419.00	7.70	181.16	3411.35	-16.39	-116.16	-16.71	0.14	432115.52	555319.73	N 32 11 16.64	W 104 17 17.29	188.19	117.36
	3513.00	7.32	181.06	3504.54	-16.59	-128.45	-16.95	0.40	432103.24	555319.49	N 32 11 16.52	W 104 17 17.29	187.52	129.56
	3607.00	7.22	180.79	3597.79	-16.75	-140.34	-17.14	0.11	432091.34	555319.30	N 32 11 16.40	W 104 17 17.29	186.96	141.38
	3701.00	6.96	179.48	3691.07	-16.75	-151.94	-17.17	0.33	432079.74	555319.27	N 32 11 16.28	W 104 17 17.29	186.45	152.91
	3796.00	6.79	178.79	3785.39	-16.55	-163.31	-17.00	0.20	432068.37	555319.44	N 32 11 16.17	W 104 17 17.29	185.94	164.19
	3891.00	5.56	175.72	3879.83	-16.06	-173.52	-16.54	1.34	432058.17	555319.90	N 32 11 16.07	W 104 17 17.28	185.44	174.30
	3985.00	4.48	170.88	3973.47	-15.11	-181.68	-15.62	1.23	432050.01	555320.83	N 32 11 15.99	W 104 17 17.27	184.91	182.35
	4081.00	3.17	165.53	4069.26	-13.84	-187.95	-14.36	1.41	432043.73	555322.08	N 32 11 15.93	W 104 17 17.26	184.37	188.50
	4175.00	3.28	167.36	4163.11	-12.59	-193.09	-13.12	0.16	432038.59	555323.32	N 32 11 15.88	W 104 17 17.25	183.89	193.54
	4269.00	2.65	159.49	4256.98	-11.23	-197.75	-11.77	0.80	432033.93	555324.67	N 32 11 15.83	W 104 17 17.23	183.41	198.10
	4364.00	2.39	156.49	4351.89	-9.66	-201.63	-10.21	0.31	432030.06	555326.23	N 32 11 15.79	W 104 17 17.21	182.90	201.89
	4459.00	2.34	158.89	4446.81	-8.16	-205.25	-8.72	0.12	432026.44	555327.72	N 32 11 15.76	W 104 17 17.19	182.43	205.44
	4554.00	2.32	156.68	4541.73	-6.69	-208.83	-7.26	0.10	432022.86	555329.18	N 32 11 15.72	W 104 17 17.18	181.99	208.95
	4648.00	1.29	149.48	4635.68	-5.39	-211.49	-5.97	1.12	432020.20	555330.47	N 32 11 15.69	W 104 17 17.16	181.62	211.57
	4742.00	0.73	123.94	4729.67	-4.35	-212.73	-4.94	0.75	432018.96	555331.50	N 32 11 15.68	W 104 17 17.15	181.33	212.79
	4835.00	0.87	124.03	4822.66	-3.27	-213.46	-3.86	0.15	432018.23	555332.58	N 32 11 15.68	W 104 17 17.14	181.04	213.49
	4930.00	0.85	126.91	4917.65	-2.11	-214.28	-2.70	0.05	432017.41	555333.74	N 32 11 15.67	W 104 17 17.12	180.72	214.30
	5024.00	0.93	127.77	5011.64	-0.95	-215.17	-1.54	0.09	432016.52	555334.90	N 32 11 15.66	W 104 17 17.11	180.41	215.18
	5118.00	0.81	104.07	5105.63	0.30	-215.80	-0.29	0.40	432015.89	555336.15	N 32 11 15.65	W 104 17 17.10	180.08	215.80
	5213.00	0.75	98.94	5200.62	1.57	-216.06	0.97	0.10	432015.63	555337.41	N 32 11 15.65	W 104 17 17.08	179.74	216.06
	5308.00	0.82	107.87	5295.61	2.83	-216.36	2.23	0.15	432015.33	555338.67	N 32 11 15.65	W 104 17 17.07	179.41	216.38
	5403.00	0.74	101.51	5390.60	4.08	-216.70	3.48	0.12	432014.99	555339.92	N 32 11 15.64	W 104 17 17.05	179.08	216.72
	5498.00	0.77	87.80	5485.59	5.32	-216.79	4.72	0.19	432014.90	555341.16	N 32 11 15.64	W 104 17 17.04	178.75	216.84
	5593.00	1.33	342.61	5580.58	5.62	-215.72	5.03	1.79	432015.97	555341.47	N 32 11 15.65	W 104 17 17.03	178.66	215.78
	5688.00	1.17	321.33	5675.56	4.68	-213.91	4.09	0.51	432017.78	555340.53	N 32 11 15.67	W 104 17 17.05	178.90	213.95
	5782.00	1.13	298.47	5769.54	3.27	-212.72	2.68	0.49	432018.97	555339.12	N 32 11 15.68	W 104 17 17.06	179.28	212.73
	5876.00	0.74	317.82	5863.53	2.04	-211.82	1.46	0.53	432019.87	555337.90	N 32 11 15.69	W 104 17 17.08	179.61	211.83
	5971.00	0.06	223.25	5958.52	1.59	-211.41	1.01	0.79	432020.28	555337.45	N 32 11 15.70	W 104 17 17.08	179.73	211.41
	6066.00	0.88	225.99	6053.52	1.04	-211.95	0.45	0.86	432019.74	555336.89	N 32 11 15.69	W 104 17 17.09	179.88	211.95
	6161.00	1.57	208.37	6148.50	-0.10	-213.60	-0.69	0.82	432018.09	555335.75	N 32 11 15.67	W 104 17 17.10	180.19	213.60
	6255.00	1.65	193.41	6242.46	-1.02	-216.05	-1.62	0.45	432015.64	555334.82	N 32 11 15.65	W 104 17 17.11	180.43	216.06
	6349.00	1.63	184.47	6336.42	-1.43	-218.70	-2.03	0.27	432012.99	555334.41	N 32 11 15.62	W 104 17 17.12	180.53	218.71
	6443.00	1.75	197.31	6430.38	-1.95	-221.40	-2.57	0.42	432010.29	555333.87	N 32 11 15.60	W 104 17 17.12	180.66	221.42
	6538.00	0.78	258.63	6525.36	-3.02	-222.92	-3.63	1.62	432008.78	555332.81	N 32 11 15.58	W 104 17 17.13	180.93	222.95
	6632.00	0.92	307.22	6619.35	-4.25	-222.59	-4.86	0.76	432009.11	555331.58	N 32 11 15.58	W 104 17 17.15	181.25	222.64
	6727.00	0.41	312.97	6714.35	-5.10	-221.89	-5.72	0.54	432009.80	555330.73	N 32 11 15.59	W 104 17 17.16	181.48	221.97
	6822.00	0.44	267.78	6809.34	-5.72	-221.67	-6.33	0.35	432010.02	555330.11	N 32 11 15.59	W 104 17 17.17	181.64	221.77
	6917.00	0.31	266.25	6904.34	-6.34	-221.71	-6.95	0.14	432009.98	555329.49	N 32 11 15.59	W 104 17 17.17	181.80	221.81
	7012.00	0.39	246.24	6999.34	-6.89	-221.85	-7.50	0.15	432009.84	555328.94	N 32 11 15.59	W 104 17 17.18	181.94	221.98
	7106.00	0.98	214.87	7093.33	-7.64	-222.64	-8.25	0.72	432009.05	555328.19	N 32 11 15.58	W 104 17 17.19	182.12	222.79
	7202.00	0.73	215.92	7189.32	-8.46	-223.81	-9.08	0.26	432007.88	555327.36	N 32 11 15.57	W 104 17 17.20	182.32	223.99
	7296.00	0.77	204.42	7283.31	-9.07	-224.87	-9.69	0.17	432006.82	555326.75	N 32 11 15.56	W 104 17 17.21	182.47	225.08
	7391.00	1.24	169.62	7378.30	-9.15	-226.46	-9.77	0.79	432005.23	555326.67	N 32 11 15.55	W 104 17 17.21	182.47	226.67
	7486.00	0.88	129.72	7473.29	-8.40	-227.94	-9.03	0.84	432003.75	555327.41	N 32 11 15.53	W 104 17 17.20	182.27	228.12
	7581.00	2.01	107.05	7568.25	-6.24	-228.89	-6.87	1.31	432002.80	555329.57	N 32 11 15.52	W 104 17 17.17	181.72	229.00
	7676.00	0.82	96.80	7663.22	-3.97	-229.46	-4.61	1.28	432002.23	555331.84	N 32 11 15.52	W 104 17 17.15	181.15	229.51
	7770.00	0.75	44.31	7757.22	-2.88	-229.10	-3.51	0.74	432002.59	555332.93	N 32 11 15.52	W 104 17 17.13	180.88	229.13
	7783.00	0.62	55.55	7770.22	-2.76	-229.00	-3.39	1.43	432002.69	555333.05	N 32 11 15.52	W 104 17 17.13	180.85	229.03
First SLB Survey	7823.00	0.56	49.90	7810.21	-2.43	-228.75	-3.06	0.21	432002.94	555333.38	N 32 11 15.52	W 104 17 17.13	180.77	228.77
	7855.00	1.88	68.69	7842.21	-1.82	-228.46	-2.45	4.26	432003.23	555333.99	N 32 11 15.53	W 104 17 17.12	180.62	228.48
KOP [2909' FNL, 403' FWL]	7863.00	2.93	73.17	7850.20	-1.51	-228.36	-2.14	13.35	432003.34	555334.30	N 32 11 15.53	W 104 17 17.12	180.54	228.37
	7887.00	6.12	77.30	7874.12	0.33	-227.90	-0.30	13.35	432003.79	555336.14	N 32 11 15.53	W 104 17 17.10	180.08	227.90
	7918.00	10.29	82.53	7904.80	4.69	-227.17	4.06	13.65	432004.52	555340.50	N 32 11 15.54	W 104 17 17.05	178.98	227.21

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)
	7949.00	12.73	87.88	7935.17	10.84	-226.69	10.22	8.58	432005.00	555346.66	N 32 11 15.54	W 104 17 16.97	177.42	226.92
	7981.00	15.90	92.97	7966.18	18.75	-226.78	18.12	10.65	432004.91	555354.56	N 32 11 15.54	W 104 17 16.88	175.43	227.51
	8013.00	20.10	96.39	7996.60	28.60	-227.62	27.97	13.53	432004.07	555364.41	N 32 11 15.53	W 104 17 16.77	172.99	229.33
	8044.00	24.21	95.59	8025.31	40.22	-228.83	39.59	13.29	432002.86	555376.03	N 32 11 15.52	W 104 17 16.63	170.18	232.24
	8076.00	28.25	91.77	8054.01	54.33	-229.71	53.70	13.68	432001.98	555390.14	N 32 11 15.51	W 104 17 16.47	166.84	235.90
	8123.00	31.16	86.07	8094.84	77.59	-229.22	76.96	8.62	432002.47	555413.39	N 32 11 15.52	W 104 17 16.20	161.44	241.79
	8170.00	35.28	83.39	8134.15	103.21	-226.82	102.58	9.30	432004.87	555439.02	N 32 11 15.54	W 104 17 15.90	155.66	248.94
	8217.00	41.37	83.47	8171.00	132.14	-223.49	131.53	12.96	432008.20	555467.95	N 32 11 15.58	W 104 17 15.56	149.52	259.32
	8265.00	48.54	85.13	8204.95	165.86	-220.15	165.25	15.13	432011.54	555501.68	N 32 11 15.61	W 104 17 15.17	143.11	275.27
	8312.00	53.69	87.82	8234.45	202.35	-217.94	201.75	11.83	432013.75	555538.17	N 32 11 15.63	W 104 17 14.75	137.21	296.98
First Take Point [2900' FNL, 646' FWL]	8359.00	58.15	90.55	8260.78	241.26	-217.41	240.66	10.64	432014.28	555577.08	N 32 11 15.64	W 104 17 14.29	132.09	324.32
	8407.00	63.53	91.07	8284.16	283.16	-218.01	282.56	11.25	432013.68	555618.97	N 32 11 15.63	W 104 17 13.80	127.65	356.88
	8455.00	67.43	90.25	8304.08	326.82	-218.50	326.22	8.27	432013.19	555662.63	N 32 11 15.62	W 104 17 13.30	123.81	392.63
	8502.00	71.88	88.59	8320.42	370.87	-218.05	370.27	10.03	432013.64	555706.67	N 32 11 15.63	W 104 17 12.78	120.49	429.70
	8549.00	77.89	87.57	8332.67	416.19	-216.52	415.60	12.96	432015.17	555752.00	N 32 11 15.64	W 104 17 12.26	117.52	468.62
	8596.00	82.19	88.88	8340.79	462.44	-215.09	461.85	9.55	432016.60	555798.25	N 32 11 15.66	W 104 17 11.72	114.97	509.48
	8643.00	85.68	90.19	8345.76	509.17	-214.72	508.58	7.93	432016.97	555844.97	N 32 11 15.66	W 104 17 11.17	112.89	552.05
	8706.00	87.71	91.60	8349.39	572.06	-215.70	571.46	3.92	432015.99	555907.85	N 32 11 15.65	W 104 17 10.44	110.68	610.82
	8804.00	89.29	89.90	8351.96	670.01	-216.98	669.41	2.37	432014.71	556005.79	N 32 11 15.64	W 104 17 9.30	107.96	703.70
	8898.00	88.26	87.94	8353.97	763.96	-215.21	763.37	2.36	432016.48	556099.74	N 32 11 15.65	W 104 17 8.21	105.74	793.13
	8993.00	88.89	88.43	8356.33	858.87	-212.20	858.29	0.84	432019.49	556194.65	N 32 11 15.68	W 104 17 7.11	103.89	884.13
	9088.00	89.02	88.38	8358.06	953.81	-209.56	953.24	0.15	432022.13	556289.59	N 32 11 15.71	W 104 17 6.00	102.40	976.00
	9182.00	89.34	88.24	8359.41	1047.75	-206.79	1047.19	0.37	432024.90	556383.53	N 32 11 15.74	W 104 17 4.91	101.17	1067.41
	9277.00	88.79	88.45	8360.96	1142.69	-204.04	1142.14	0.62	432027.65	556478.47	N 32 11 15.76	W 104 17 3.80	100.13	1160.22
	9371.00	88.71	88.46	8363.01	1236.63	-201.51	1236.08	0.09	432030.18	556572.40	N 32 11 15.79	W 104 17 2.71	99.26	1252.40
	9466.00	88.47	88.46	8365.34	1331.56	-198.96	1331.02	0.25	432032.73	556667.33	N 32 11 15.81	W 104 17 1.60	98.50	1345.80
	9560.00	88.74	90.70	8367.63	1425.52	-198.27	1424.98	2.40	432033.42	556761.29	N 32 11 15.82	W 104 17 0.51	97.92	1438.71
	9655.00	88.58	90.54	8369.86	1520.49	-199.30	1519.95	0.24	432032.39	556856.25	N 32 11 15.81	W 104 16 59.41	97.47	1532.96
	9749.00	88.74	90.61	8372.05	1614.46	-200.24	1613.92	0.19	432031.45	556950.21	N 32 11 15.80	W 104 16 58.31	97.07	1626.29
	9843.00	89.00	90.54	8373.91	1708.44	-201.18	1707.89	0.29	432030.51	557044.18	N 32 11 15.79	W 104 16 57.22	96.72	1719.70
	9937.00	88.97	90.62	8375.57	1802.43	-202.13	1801.88	0.09	432029.56	557138.15	N 32 11 15.78	W 104 16 56.13	96.40	1813.18
	10031.00	89.62	90.55	8376.73	1896.42	-203.09	1895.86	0.70	432028.60	557232.13	N 32 11 15.77	W 104 16 55.03	96.11	1906.71
	10126.00	89.57	90.69	8377.40	1991.41	-204.12	1990.85	0.16	432027.57	557327.11	N 32 11 15.76	W 104 16 53.93	95.85	2001.29
	10219.00	89.18	90.51	8378.41	2084.40	-205.09	2083.84	0.46	432026.59	557420.09	N 32 11 15.75	W 104 16 52.84	95.62	2093.91
	10314.00	89.21	90.54	8379.75	2179.39	-205.96	2178.83	0.04	432025.72	557515.07	N 32 11 15.74	W 104 16 51.74	95.40	2188.54
	10409.00	89.12	90.51	8381.13	2274.38	-206.84	2273.82	0.10	432024.85	557610.05	N 32 11 15.73	W 104 16 50.63	95.20	2283.20
	10504.00	89.19	90.71	8382.54	2369.36	-207.85	2368.80	0.22	432023.84	557705.02	N 32 11 15.72	W 104 16 49.53	95.01	2377.90
	10599.00	89.15	90.68	8383.91	2464.35	-209.00	2463.78	0.05	432022.69	557800.00	N 32 11 15.71	W 104 16 48.42	94.85	2472.63
	10694.00	89.08	90.62	8385.38	2559.34	-210.08	2558.77	0.10	432021.61	557894.97	N 32 11 15.70	W 104 16 47.32	94.69	2567.38
	10788.00	89.24	90.64	8386.76	2653.32	-211.11	2652.75	0.17	432020.58	557988.94	N 32 11 15.69	W 104 16 46.23	94.55	2661.14
	10882.00	89.26	90.55	8387.99	2747.31	-212.09	2746.74	0.10	432019.60	558082.92	N 32 11 15.68	W 104 16 45.13	94.42	2754.91
	10976.00	89.26	90.50	8389.20	2841.30	-212.95	2840.73	0.05	432018.74	558176.90	N 32 11 15.67	W 104 16 44.04	94.29	2848.70
	11071.00	89.64	90.25	8390.11	2936.30	-213.57	2935.72	0.48	432018.12	558271.89	N 32 11 15.66	W 104 16 42.93	94.16	2943.48
	11166.00	88.91	90.15	8391.31	3031.29	-213.90	3030.71	0.78	432017.79	558366.87	N 32 11 15.66	W 104 16 41.83	94.04	3038.25
	11261.00	88.92	90.67	8393.11	3126.27	-214.58	3125.69	0.55	432017.11	558461.84	N 32 11 15.65	W 104 16 40.72	93.93	3133.05
	11355.00	88.60	90.78	8395.15	3220.24	-215.77	3219.66	0.36	432015.92	558555.80	N 32 11 15.64	W 104 16 39.63	93.83	3226.88
	11450.00	88.78	90.36	8397.32	3315.22	-216.71	3314.63	0.48	432014.98	558650.76	N 32 11 15.63	W 104 16 38.52	93.74	3321.71
	11545.00	88.42	90.27	8399.64	3410.19	-217.24	3409.60	0.39	432014.45	558745.72	N 32 11 15.62	W 104 16 37.42	93.65	3416.51
	11639.00	88.67	90.52	8402.03	3504.16	-217.88	3503.57	0.38	432013.81	558839.68	N 32 11 15.62	W 104 16 36.33	93.56	3510.34
	11734.00	88.65	90.50	8404.25	3599.13	-218.73	3598.54	0.03	432012.96	558934.64	N 32 11 15.61	W 104 16 35.22	93.48	3605.18
	11829.00	88.79	90.58	8406.37	3694.10	-219.62	3693.51	0.17	432012.07	559029.61	N 32 11 15.60	W 104 16 34.11	93.40	3700.03
	11924.00	88.94	90.37	8408.25	3789.08	-220.41	3788.49	0.27	432011.28	559124.58	N 32 11 15.59	W 104 16 33.01	93.33	3794.89
	12019.00	88.62	90.52	8410.28	3884.06	-221.15	3883.46	0.37	432010.54	559219.54	N 32 11 15.58	W 104 16 31.90	93.26	3889.76
	12114.00	88.65	90.61	8412.54	3979.03	-222.09	3978.43	0.10	432009.60	559314.50	N 32 11 15.57	W 104 16 30.80	93.20	3984.63
	12207.00	88.80	90.24	8414.61	4072.01	-222.78	4071.41	0.43	432008.91	559407.47	N 32 11 15.56	W 104 16 29.72	93.13	4077.50
	12302.00	88.63	90.53	8416.74	4166.98	-223.41	4166.38	0.35	432008.28	559502.43	N 32 11 15.56	W 104 16 28.61	93.07	4172.37
	12398.00	88.80	90.41	8418.89	4262.95	-224.20	4262.35	0.22	432007.49	559598.40	N 32 11 15.55	W 104 16 27.50	93.01	4268.25
	12493.00	88.77	90.49	8420.91	4357.93	-224.95	4357.33	0.09	432006.74	559693.36	N 32 11 15.54	W 104 16 26.39	92.96	4363.13
	12588.00	88.66	90.58	8423.04	4452.91	-225.83	4452.30	0.15	432005.86	559788.33	N 32 11 15.53	W 104 16 25.29	92.90	4458.02
	12683.00	88.67	90.62	8425.25	4547.88	-226.83	4547.27	0.04	432004.86	559883.29	N 32 11 15.52	W 104 16 24.18	92.86	4552.92

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 [2951' FNL]	12778.00	88.98	90.54	8427.20	4642.85	-227.79	4642.24	0.34	432003.90	559978.25	N 32 11 15.51	W 104 16 23.08	92.81	4647.83
	12872.00	88.87	90.14	8428.96	4736.84	-228.35	4736.23	0.44	432003.34	560072.23	N 32 11 15.50	W 104 16 21.98	92.76	4741.73
	12968.00	89.16	88.15	8430.61	4832.80	-226.92	4832.20	2.09	432004.78	560168.19	N 32 11 15.52	W 104 16 20.87	92.69	4837.52
	13034.20	89.12	88.18	8431.61	4898.96	-224.79	4898.35	0.08	432006.90	560234.34	N 32 11 15.54	W 104 16 20.10	92.63	4903.51
	13062.00	89.10	88.19	8432.04	4926.74	-223.91	4926.14	0.08	432007.78	560262.12	N 32 11 15.55	W 104 16 19.77	92.60	4931.22
	13156.00	89.60	88.23	8433.11	5020.68	-220.98	5020.09	0.53	432010.71	560356.06	N 32 11 15.58	W 104 16 18.68	92.52	5024.95
	13250.00	89.21	88.17	8434.08	5114.62	-218.03	5114.03	0.42	432013.66	560450.00	N 32 11 15.60	W 104 16 17.59	92.44	5118.68
	13344.00	89.27	88.29	8435.33	5208.55	-215.12	5207.98	0.14	432016.57	560543.94	N 32 11 15.63	W 104 16 16.49	92.37	5212.42
	13439.00	89.54	88.23	8436.32	5303.50	-212.24	5302.93	0.29	432019.45	560638.88	N 32 11 15.66	W 104 16 15.39	92.29	5307.18
	13533.00	89.14	88.30	8437.40	5397.44	-209.39	5396.88	0.43	432022.30	560732.82	N 32 11 15.69	W 104 16 14.29	92.22	5400.94
13627.00	89.32	88.32	8438.66	5491.38	-206.62	5490.83	0.19	432025.07	560826.76	N 32 11 15.72	W 104 16 13.20	92.16	5494.72	
13720.00	89.34	88.25	8439.75	5584.33	-203.84	5583.78	0.08	432027.85	560919.71	N 32 11 15.74	W 104 16 12.12	92.09	5587.50	
13816.00	88.62	90.61	8441.46	5680.30	-202.88	5679.76	2.57	432028.81	561015.67	N 32 11 15.75	W 104 16 11.00	92.05	5683.38	
13910.00	88.78	90.52	8443.59	5774.27	-203.81	5773.73	0.20	432027.88	561109.63	N 32 11 15.74	W 104 16 9.91	92.02	5777.32	
14004.00	88.84	90.47	8445.54	5868.25	-204.62	5867.70	0.08	432027.07	561203.60	N 32 11 15.73	W 104 16 8.82	92.00	5871.27	
14099.00	88.81	90.49	8447.49	5963.23	-205.42	5962.68	0.04	432026.27	561298.57	N 32 11 15.72	W 104 16 7.71	91.97	5966.22	
14194.00	87.26	90.85	8450.75	6058.16	-206.53	6057.62	1.67	432025.16	561393.49	N 32 11 15.71	W 104 16 6.61	91.95	6061.14	
14288.00	87.30	90.88	8455.21	6152.05	-207.94	6151.50	0.05	432023.75	561487.37	N 32 11 15.70	W 104 16 5.51	91.94	6155.01	
14383.00	87.25	90.63	8459.73	6246.94	-209.19	6246.38	0.27	432022.50	561582.24	N 32 11 15.69	W 104 16 4.41	91.92	6249.89	
14477.00	87.18	90.68	8464.29	6340.82	-210.27	6340.27	0.09	432021.42	561676.12	N 32 11 15.67	W 104 16 3.32	91.90	6343.75	
14572.00	87.49	90.45	8468.71	6435.72	-211.20	6435.16	0.41	432020.49	561771.00	N 32 11 15.66	W 104 16 2.21	91.88	6438.62	
14667.00	87.47	90.83	8472.89	6530.62	-212.26	6530.06	0.40	432019.43	561865.90	N 32 11 15.65	W 104 16 1.11	91.86	6533.51	
14761.00	87.43	90.58	8477.07	6624.52	-213.42	6623.96	0.27	432018.27	561959.79	N 32 11 15.64	W 104 16 0.02	91.85	6627.40	
14856.00	88.53	91.02	8480.42	6719.46	-214.74	6718.89	1.25	432016.95	562054.71	N 32 11 15.63	W 104 15 58.91	91.83	6722.32	
14950.00	88.49	90.77	8482.86	6813.42	-216.21	6812.85	0.27	432015.48	562148.66	N 32 11 15.61	W 104 15 57.82	91.82	6816.28	
15043.00	88.95	90.17	8484.94	6906.39	-216.97	6905.82	0.81	432014.72	562241.62	N 32 11 15.60	W 104 15 56.74	91.80	6909.23	
15137.00	88.88	90.75	8486.72	7000.37	-217.73	6999.80	0.62	432013.96	562335.59	N 32 11 15.60	W 104 15 55.64	91.78	7003.19	
15231.00	88.65	90.71	8488.75	7094.35	-218.93	7093.77	0.25	432012.76	562429.55	N 32 11 15.58	W 104 15 54.55	91.77	7097.15	
15326.00	88.72	90.44	8490.93	7189.32	-219.88	7188.74	0.29	432011.81	562524.51	N 32 11 15.57	W 104 15 53.44	91.75	7192.10	
15421.00	87.97	90.13	8493.67	7284.28	-220.35	7283.70	0.85	432011.34	562619.46	N 32 11 15.57	W 104 15 52.34	91.73	7287.03	
15516.00	88.10	90.89	8496.93	7379.22	-221.20	7378.64	0.81	432010.49	562714.39	N 32 11 15.56	W 104 15 51.23	91.72	7381.95	
15610.00	88.20	90.40	8499.96	7473.17	-222.25	7472.58	0.53	432009.44	562808.33	N 32 11 15.55	W 104 15 50.14	91.70	7475.89	
15706.00	88.36	90.51	8502.84	7569.12	-223.02	7568.54	0.20	432008.67	562904.28	N 32 11 15.54	W 104 15 49.03	91.69	7571.82	
15801.00	88.69	90.57	8505.29	7664.09	-223.91	7663.50	0.35	432007.78	562999.23	N 32 11 15.53	W 104 15 47.92	91.67	7666.77	
15895.00	88.65	90.48	8507.47	7758.06	-224.77	7757.47	0.10	432006.92	563093.19	N 32 11 15.52	W 104 15 46.83	91.66	7760.73	
15990.00	88.84	90.36	8509.55	7853.04	-225.47	7852.45	0.24	432006.22	563188.16	N 32 11 15.51	W 104 15 45.72	91.64	7855.68	
16085.00	88.84	90.61	8511.47	7948.02	-226.27	7947.42	0.26	432005.42	563283.13	N 32 11 15.51	W 104 15 44.62	91.63	7950.64	
16179.00	88.15	90.50	8513.94	8041.98	-227.18	8041.39	0.74	432004.51	563377.08	N 32 11 15.50	W 104 15 43.52	91.62	8044.59	
16274.00	88.27	90.68	8516.91	8136.93	-228.16	8136.33	0.23	432003.53	563472.02	N 32 11 15.49	W 104 15 42.42	91.61	8139.53	
16369.00	88.37	90.69	8519.70	8231.89	-229.30	8231.29	0.11	432002.39	563566.96	N 32 11 15.47	W 104 15 41.31	91.60	8234.48	
16464.00	88.35	90.34	8522.41	8326.85	-230.15	8326.24	0.37	432001.54	563661.91	N 32 11 15.47	W 104 15 40.21	91.58	8329.42	
16558.00	88.38	90.36	8525.10	8420.81	-230.72	8420.20	0.04	432000.97	563755.86	N 32 11 15.46	W 104 15 39.12	91.57	8423.36	
16652.00	88.38	90.80	8527.75	8514.77	-231.68	8514.16	0.47	432000.02	563849.81	N 32 11 15.45	W 104 15 38.02	91.56	8517.31	
16747.00	88.41	90.57	8530.41	8609.73	-232.81	8609.12	0.24	431998.88	563944.76	N 32 11 15.44	W 104 15 36.92	91.55	8612.26	
16842.00	88.78	90.61	8532.74	8704.70	-233.79	8704.08	0.39	431997.90	564039.72	N 32 11 15.43	W 104 15 35.81	91.54	8707.22	
16936.00	88.10	90.85	8535.30	8798.66	-234.99	8798.04	0.77	431996.71	564133.67	N 32 11 15.41	W 104 15 34.72	91.53	8801.18	
17030.00	89.23	90.43	8537.49	8892.62	-236.04	8892.01	1.28	431995.66	564227.62	N 32 11 15.40	W 104 15 33.63	91.52	8895.14	
17124.00	88.20	90.48	8539.60	8986.60	-236.78	8985.98	1.10	431994.91	564321.59	N 32 11 15.40	W 104 15 32.53	91.51	8989.10	
17219.00	88.77	90.26	8542.11	9081.56	-237.39	9080.94	0.64	431994.30	564416.54	N 32 11 15.39	W 104 15 31.43	91.50	9084.05	
17314.00	88.14	90.22	8544.67	9176.53	-237.79	9175.91	0.66	431993.90	564511.50	N 32 11 15.38	W 104 15 30.32	91.48	9178.99	
17409.00	87.63	90.99	8548.18	9271.46	-238.79	9270.84	0.97	431992.90	564606.42	N 32 11 15.37	W 104 15 29.22	91.48	9273.91	
17503.00	87.65	91.18	8552.05	9365.37	-240.57	9364.74	0.20	431991.12	564700.31	N 32 11 15.35	W 104 15 28.12	91.47	9367.83	
17598.00	88.10	89.35	8555.57	9460.30	-241.01	9459.67	1.98	431990.68	564795.23	N 32 11 15.35	W 104 15 27.02	91.46	9462.74	
17693.00	87.81	88.71	8558.96	9555.22	-239.40	9554.60	0.74	431992.29	564890.15	N 32 11 15.37	W 104 15 25.92	91.44	9557.59	
17787.00	87.87	88.69	8562.51	9649.12	-237.27	9648.50	0.07	431994.42	564984.05	N 32 11 15.39	W 104 15 24.82	91.41	9651.42	
17882.00	87.63	88.41	8566.24	9744.01	-234.87	9743.40	0.39	431996.82	565078.94	N 32 11 15.41	W 104 15 23.72	91.38	9746.23	
17976.00	87.82	88.64	8569.97	9837.90	-232.45	9837.29	0.32	431999.24	565172.82	N 32 11 15.43	W 104 15 22.63	91.35	9840.04	
18069.00	87.85	90.35	8573.48	9930.82	-231.63	9930.22	1.84	432000.06	565265.74	N 32 11 15.44	W 104 15 21.54	91.34	9932.92	
18164.00	88.23	90.81	8576.73	10025.76	-232.60	10025.16	0.63	431999.10	565360.67	N 32 11 15.43	W 104 15 20.44	91.33	10027.86	

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)
Last Take Point [2881' FNL, 140' FEL]	18166.00	88.26	90.82	8576.79	10027.76	-232.62	10027.16	1.45	431999.07	565362.67	N 32 11 15.43	W 104 15 20.42	91.33	10029.86
Final Survey TD, PTB [2882' FNL, 101' FEL]	18177.00	88.40	90.89	8577.11	10038.76	-232.79	10038.15	1.45	431998.90	565373.66	N 32 11 15.43	W 104 15 20.29	91.33	10040.85
	18205.00	88.40	90.89	8577.89	10066.74	-233.22	10066.14	0.00	431998.47	565401.65	N 32 11 15.42	W 104 15 19.96	91.33	10068.84

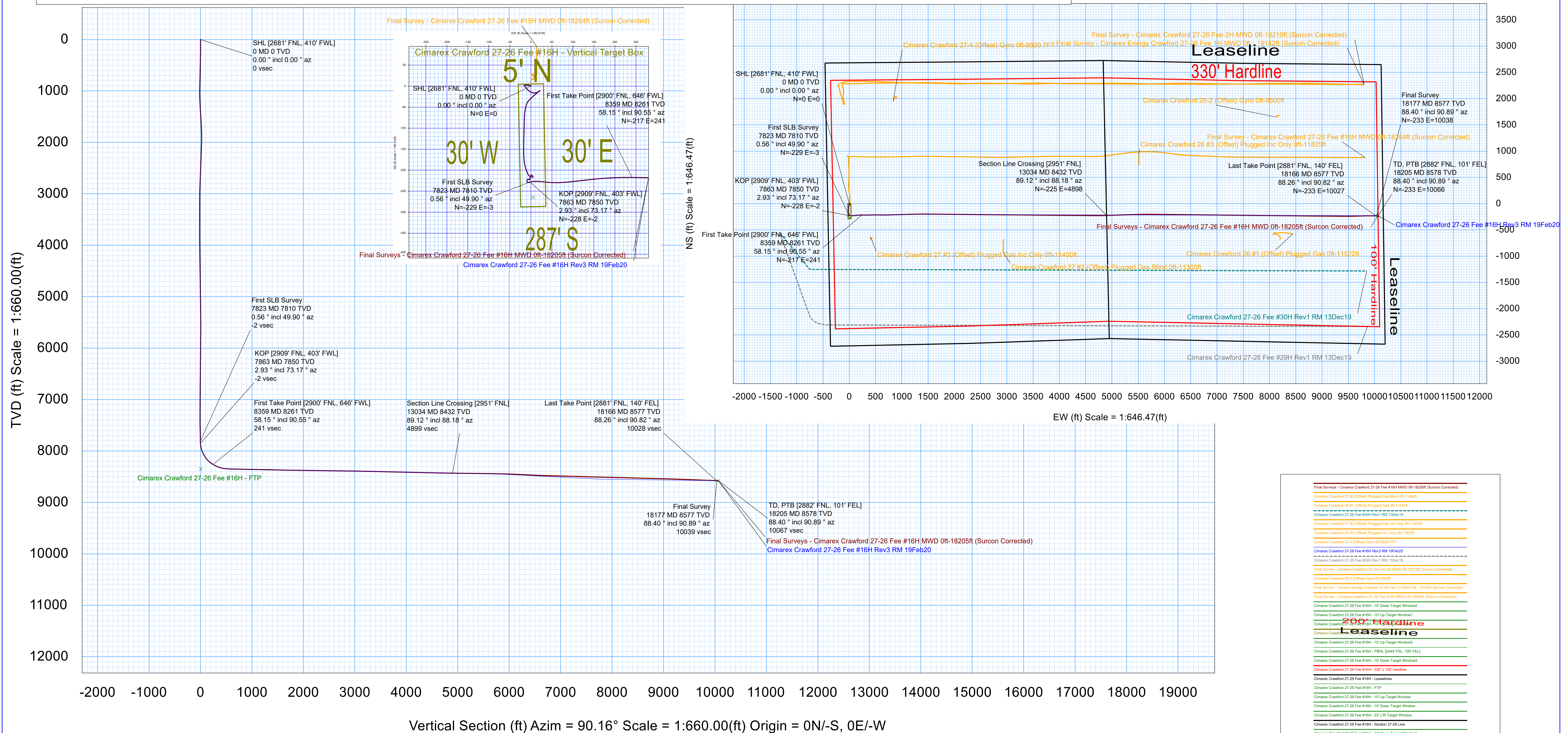
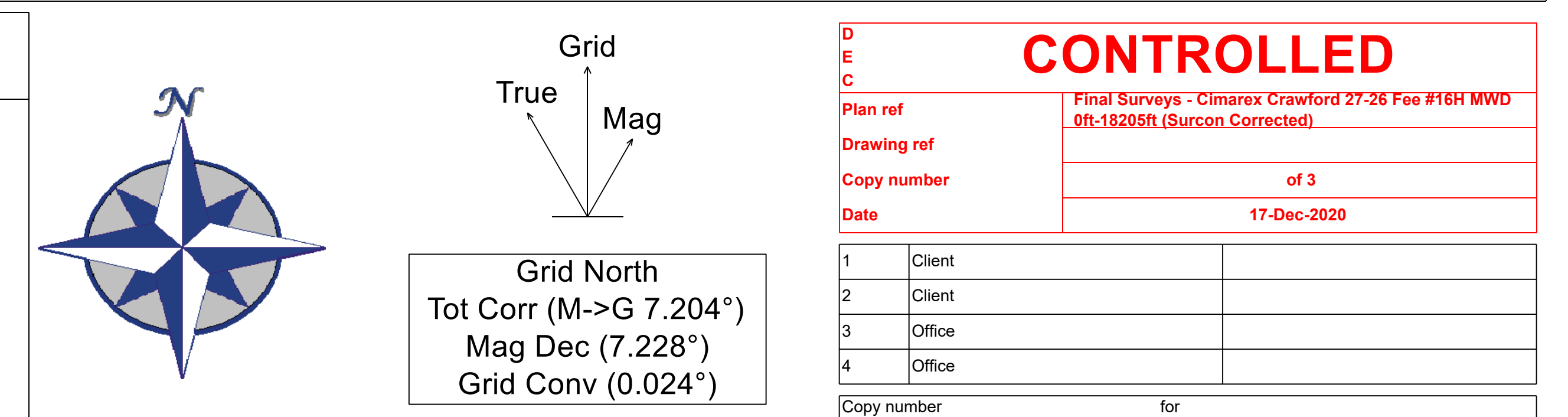
Survey Type: Def Survey

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	Crawford 27-26 Fee #16H / Final Surveys - Cimarex Crawford 27-26 Fee #16H MWD 0ft-18205ft
	1	23.000	23.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS-Depth Only	Crawford 27-26 Fee #16H / Final Surveys - Cimarex Crawford 27-26 Fee #16H MWD 0ft-18205ft
	1	23.000	410.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS	Crawford 27-26 Fee #16H / Final Surveys - Cimarex Crawford 27-26
	1	410.000	1795.000	Act Stns	12.250	9.625	NAL_MWD_IFR1+MS	Crawford 27-26 Fee #16H / Final Surveys - Cimarex Crawford 27-26
	1	1795.000	8766.000	Act Stns	8.750	7.000	NAL_MWD_IFR1+MS	Crawford 27-26 Fee #16H / Final Surveys - Cimarex Crawford 27-26
	1	8766.000	18205.000	Act Stns	8.500	7.000	NAL_MWD_IFR1+MS	Crawford 27-26 Fee #16H / Final Surveys - Cimarex Crawford 27-26

Borehole: Crawford 27-26 Fee #16H				Well: Crawford 27-26 Fee #16H				Field: NM Eddy County (NAD 83)				Structure: Cimarex Crawford 27-26 Fee #16H																			
Gravity & Magnetic Parameters								Surface Location				Miscellaneous																			
Model:		HDGM 2019		Dip:		59.791°		Date:		19-Feb-2020		Lat:		N 32 11 17.79		Northing:		432231.67ftUS		Grid Conv:		0.0241°		Slot:		New Slot		TVD Ref:		RKB(3354.1ft above MSL)	
MagDec:		7.228°		FS:		47722.727nT		Gravity FS:		998.446mgn (9.80665 Based)		Lon:		W 104 17 17.09		Easting:		555336.44ftUS		Scale Fact:		0.99990932		Plan:		Final Surveys - Cimarex Crawford 27-26 Fee #16H MWD 0ft-18205ft (Surcon Corrected)					

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [2681' FNL, 410' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
First SLB Survey	7823.00	0.56	49.90	7810.21	-2.43	-228.75	-3.06	0.21
KOP [2909' FNL, 403' FWL]	7863.00	2.93	73.17	7850.20	-1.51	-228.36	-2.14	13.35
First Take Point [2900' FNL, 646' FWL]	8359.00	58.15	90.55	8260.78	241.26	-217.41	240.66	10.64
Section Line Crossing [2951' FNL]	13034.20	89.12	88.18	8431.61	4898.96	-224.79	4898.35	0.08
Last Take Point [2881' FNL, 140' FEL]	18166.00	88.26	90.82	8576.79	10027.76	-232.62	10027.16	1.45
Final Survey	18177.00	88.40	90.89	8577.11	10038.76	-232.79	10038.15	1.45
TD, PTB [2882' FNL, 101' FEL]	18205.00	88.40	90.89	8577.89	10066.74	-233.22	10066.14	0.00



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

Submit a Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO.
1. Type of Well: Oil Well ☐ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☐
2. Name of Operator		6. State Oil & Gas Lease No.
3. Address of Operator		7. Lease Name or Unit Agreement Name
4. Well Location Unit Letter _____: _____ feet from the _____ line and _____ feet from the _____ line Section _____ Township _____ Range _____ NMPM _____ County _____		8. Well Number
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number
		10. Pool name or Wildcat

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Fatima Vasquez TITLE _____ DATE _____

Type or print name _____ E-mail address: _____ PHONE: _____

For State Use Only

APPROVED BY: KURT SIMMONS TITLE NMOCD DATE 02/17/21

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised April 3, 2017				
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☐ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								1. WELL API NO. 2. Type of Lease ☐ STATE ☐ FEE ☐ FED/INDIAN 3. State Oil & Gas Lease No.		
7. Type of Completion: ☐ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____								5. Lease Name or Unit Agreement Name 6. Well Number:		
8. Name of Operator						9. OGRID				
10. Address of Operator						11. Pool name or Wildcat				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:										
BH:										
13. Date Spudded		14. Date T.D. Reached		15. Date Rig Released		16. Date Completed (Ready to Produce)		17. Elevations (DF and RKB, RT, GR, etc.)		
18. Total Measured Depth of Well				19. Plug Back Measured Depth		20. Was Directional Survey Made?		21. Type Electric and Other Logs Run		
22. Producing Interval(s), of this completion - Top, Bottom, Name										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number)					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
					DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
28. PRODUCTION										
Date First Production		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>)				Well Status (<i>Prod. or Shut-in</i>)				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>)				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>)							30. Test Witnessed By			
31. List Attachments										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:			
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____ Longitude _____ NAD83										
I 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 <i>Fatima Vasquez</i>			Printed Name			Title			Date	
E-mail Address										

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

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

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

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

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

LITHOLOG OF THE CORE (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

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811 S. First St., Artesia, NM 88210
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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 15322

CONDITIONS OF APPROVAL

Operator: CIMAREX ENERGY CO. Suite 600 Midland, TX79701	600 N. Marienfeld Street	OGRID: 215099	Action Number: 15322	Action Type: C-104C
OCD Reviewer ksimmons		Condition None		