

Results of Directional Survey

API number:	30-025-41149		
OGRID:		Operator:	CIMAREX ENERGY CO.
		Property:	TRISTE DRAW 25 FEDERAL # 2H

surface	ULSTR:	O	25	T	23S	R	32E
				330	FSL	1980	FEL

BH Loc	ULSTR:	B	25	T	23S	R	32E
15300	MD	10990.5	TVD	335	FNL	2013	FEL
				4945	FSL		

Top Perf/OH	ULSTR:	O	25	T	23S	R	32E
10900	MD	10845.4	TVD	582	FSL	1869	FEL

Bot Perf/OH	ULSTR:	B	25	T	23S	R	32E
15270	MD	10990.4	TVD	365	FNL	2014	FEL
				4915	FSL		

	MD	N/S	E/W	VD
	10897	249.85	111.16	10843.5
TOP PERFS/OH	10900	252.21	111.20	10845.35
	10928	274.21	111.59	10862.66
	15228	4542.59	-35.86	10990.30
BOT PERFS/OH	15270	4584.56	-34.30	10990.43
	15300	4614.54	-33.18	10990.52

NEXT TO LAST	15228	4542.59	-35.86	10990.30
LAST READING	15300	4614.54	-33.18	10990.52
TD	15300	4614.54	-33.18	10990.52

Surface Location	330	FS	1980	FE
Projected BHL	4945	FS	2013	FE
Location of				
Top Perfs/OH	582	FS	1869	FE
Bottom Perfs/OH	4915	FS	2014	FE

SUMMARY of Subsurface Locations

Surface Location	O-25-23S-32E	330	FS	1980	FE	Vert. Depth
Top Perfs/OH	O-25-23S-32E	582	FS	1869	FE	10845.35
Bottom Perfs/OH	B-25-23S-32E	4915	FS	2014	FE	10990.43
Projected TD	B-25-23S-32E	4945	FS	2013	FE	10990.52

MAY 05 2014

Cimarex Triste Draw 25 Federal #2H Gyro+MWD 0ft to Update Survey Report (Non-Def Survey)

HOBBS OCD
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Report Date:	October 17, 2013 - 02:57 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex Energy	Vertical Section Azimuth:	359.539 ° (Grid North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Triste Draw 25 Federal #2H / Triste Draw 25 Federal #2H	TVD Reference Datum:	KB
Well:	Triste Draw 25 Federal #2H	TVD Reference Elevation:	3727.000 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3702.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.442 °
Survey Name:	Cimarex Triste Draw 25 Federal #2H Gyro+MWD 0ft to Update	Total Field Strength:	48370.930 nT
Survey Date:	September 24, 2013	Magnetic Dip Angle:	60.117 °
Tort / AHD / DDI / ERD Ratio:	151.373 ° / 4786.807 ft / 6.003 / 0.435	Declination Date:	September 24, 2013
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Declination Model:	BGGM 2012
Location Lat / Long:	N 32° 16' 9.85603", W 103° 37' 34.07815"	North Reference:	Grid North
Location Grid N/E Y/X:	N 462462.600 ftUS, E 759920.200 ftUS	Grid Convergence Used:	0.3776 °
CRS Grid Convergence Angle:	0.3776 °	Total Corr Mag North->Grid North:	7.0649 °
Grid Scale Factor:	0.99996381	Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Tie-In	0.00	0.00	359.54	0.00	-3727.00	0.00	0.00	0.00	N/A	462462.60	759920.20	N 32 16 9.86	W 103 37 34.08
	111.00	0.62	6.40	111.00	-3616.00	0.60	0.60	0.07	0.56	462463.20	759920.27	N 32 16 9.86	W 103 37 34.08
	198.00	0.79	52.19	197.99	-3529.01	1.43	1.43	0.59	0.66	462464.03	759920.79	N 32 16 9.87	W 103 37 34.07
	261.00	0.79	54.69	260.99	-3466.01	1.94	1.95	1.29	0.05	462464.55	759921.49	N 32 16 9.88	W 103 37 34.06
	385.00	0.70	49.07	384.98	-3342.02	2.92	2.94	2.56	0.09	462465.54	759922.76	N 32 16 9.88	W 103 37 34.05
	447.00	0.70	56.36	446.97	-3280.03	3.37	3.40	3.16	0.14	462466.00	759923.36	N 32 16 9.89	W 103 37 34.04
	508.00	0.70	43.57	507.97	-3219.03	3.84	3.87	3.73	0.26	462466.47	759923.93	N 32 16 9.89	W 103 37 34.03
	600.00	0.70	44.19	599.96	-3127.04	4.65	4.68	4.51	0.01	462467.28	759924.71	N 32 16 9.90	W 103 37 34.03
	660.00	0.88	33.07	659.95	-3067.05	5.29	5.33	5.02	0.39	462467.93	759925.21	N 32 16 9.91	W 103 37 34.02
	721.00	0.70	50.57	720.95	-3006.05	5.92	5.96	5.56	0.49	462468.56	759925.76	N 32 16 9.91	W 103 37 34.01
	782.00	0.62	46.08	781.94	-2945.06	6.38	6.43	6.08	0.16	462469.03	759926.28	N 32 16 9.92	W 103 37 34.01
	842.00	0.48	44.10	841.94	-2885.06	6.78	6.83	6.49	0.24	462469.43	759926.69	N 32 16 9.92	W 103 37 34.00
	874.00	0.40	25.38	873.94	-2853.06	6.98	7.03	6.63	0.51	462469.63	759926.83	N 32 16 9.93	W 103 37 34.00
	937.00	0.00	6.88	936.94	-2790.06	7.18	7.23	6.73	0.63	462469.83	759926.93	N 32 16 9.93	W 103 37 34.00
	1033.00	0.48	25.07	1032.94	-2694.06	7.54	7.59	6.90	0.50	462470.19	759927.10	N 32 16 9.93	W 103 37 34.00
	1129.00	0.70	14.66	1128.93	-2598.07	8.47	8.53	7.22	0.25	462471.13	759927.42	N 32 16 9.94	W 103 37 33.99
	1224.00	0.48	22.00	1223.93	-2503.07	9.40	9.46	7.51	0.24	462472.06	759927.71	N 32 16 9.95	W 103 37 33.99
	1274.00	0.70	10.66	1273.93	-2453.07	9.89	9.95	7.65	0.50	462472.55	759927.85	N 32 16 9.95	W 103 37 33.99
	1510.00	0.88	11.10	1509.90	-2217.10	13.08	13.15	8.26	0.08	462475.74	759928.46	N 32 16 9.99	W 103 37 33.98
	1605.00	1.01	12.68	1604.89	-2122.11	14.61	14.68	8.59	0.14	462477.28	759928.79	N 32 16 10.00	W 103 37 33.98
	1701.00	0.88	13.38	1700.88	-2026.12	16.15	16.22	8.94	0.14	462478.82	759929.14	N 32 16 10.02	W 103 37 33.97
	1796.00	1.01	11.80	1795.86	-1931.14	17.67	17.75	9.28	0.14	462480.35	759929.48	N 32 16 10.03	W 103 37 33.97
	1892.00	0.88	12.07	1891.85	-1835.15	19.22	19.30	9.61	0.14	462481.90	759929.81	N 32 16 10.05	W 103 37 33.96
	1988.00	1.01	9.17	1987.84	-1739.16	20.77	20.86	9.90	0.14	462483.45	759930.10	N 32 16 10.06	W 103 37 33.96
	2083.00	1.10	10.40	2082.82	-1644.18	22.50	22.58	10.20	0.10	462485.18	759930.40	N 32 16 10.08	W 103 37 33.96
	2179.00	1.19	11.36	2178.80	-1548.20	24.38	24.46	10.56	0.10	462487.06	759930.76	N 32 16 10.10	W 103 37 33.95
	2274.00	1.19	7.98	2273.78	-1453.22	26.32	26.41	10.89	0.07	462489.01	759931.09	N 32 16 10.12	W 103 37 33.95
	2370.00	1.19	6.26	2369.76	-1357.24	28.29	28.38	11.14	0.04	462490.98	759931.34	N 32 16 10.14	W 103 37 33.95
	2465.00	1.19	0.38	2464.74	-1262.26	30.26	30.35	11.25	0.13	462492.95	759931.45	N 32 16 10.16	W 103 37 33.94

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	2560.00	1.32	358.97	2559.72	-1167.28	32.34	32.43	11.24	0.14	462495.03	759931.44	N 32 16 10.18	W 103 37 33.94
	2656.00	1.32	2.57	2655.69	-1071.31	34.55	34.64	11.27	0.09	462497.24	759931.47	N 32 16 10.20	W 103 37 33.94
	2751.00	1.41	7.36	2750.67	-976.33	36.80	36.89	11.47	0.15	462499.49	759931.67	N 32 16 10.22	W 103 37 33.94
	2847.00	1.41	0.77	2846.64	-880.36	39.15	39.25	11.64	0.17	462501.85	759931.84	N 32 16 10.24	W 103 37 33.94
	2942.00	1.49	5.17	2941.61	-785.39	41.55	41.65	11.76	0.14	462504.24	759931.96	N 32 16 10.27	W 103 37 33.94
	3038.00	1.49	3.28	3037.57	-689.43	44.04	44.13	11.95	0.05	462506.73	759932.15	N 32 16 10.29	W 103 37 33.94
	3134.00	1.49	5.87	3133.54	-593.46	46.52	46.62	12.15	0.07	462509.22	759932.35	N 32 16 10.32	W 103 37 33.93
	3229.00	1.49	6.40	3228.51	-498.49	48.98	49.08	12.41	0.01	462511.68	759932.61	N 32 16 10.34	W 103 37 33.93
	3325.00	1.49	8.37	3324.48	-402.52	51.45	51.55	12.73	0.05	462514.15	759932.93	N 32 16 10.37	W 103 37 33.93
	3420.00	1.58	7.36	3419.44	-307.56	53.97	54.07	13.08	0.10	462516.67	759933.28	N 32 16 10.39	W 103 37 33.92
	3516.00	1.71	8.29	3515.40	-211.60	56.69	56.80	13.45	0.14	462519.40	759933.65	N 32 16 10.42	W 103 37 33.92
	3612.00	1.71	10.26	3611.36	-115.64	59.52	59.63	13.92	0.06	462522.23	759934.12	N 32 16 10.45	W 103 37 33.91
	3707.00	1.80	6.66	3706.32	-20.68	62.39	62.51	14.34	0.15	462525.11	759934.54	N 32 16 10.47	W 103 37 33.91
	3803.00	1.80	6.18	3802.27	75.27	65.38	65.50	14.68	0.02	462528.10	759934.88	N 32 16 10.50	W 103 37 33.90
	3899.00	1.58	8.59	3898.23	171.23	68.19	68.31	15.04	0.24	462530.91	759935.24	N 32 16 10.53	W 103 37 33.90
	3994.00	1.58	9.78	3993.19	266.19	70.77	70.90	15.46	0.03	462533.50	759935.66	N 32 16 10.56	W 103 37 33.89
	4089.00	1.58	6.26	4088.15	361.15	73.36	73.49	15.82	0.10	462536.09	759936.02	N 32 16 10.58	W 103 37 33.89
	4185.00	1.58	3.89	4184.12	457.12	75.99	76.13	16.06	0.07	462538.72	759936.26	N 32 16 10.61	W 103 37 33.89
	4280.00	1.58	15.80	4279.08	552.08	78.56	78.69	16.50	0.35	462541.29	759936.70	N 32 16 10.63	W 103 37 33.88
	4376.00	1.41	25.07	4375.05	648.05	80.89	81.04	17.36	0.31	462543.63	759937.56	N 32 16 10.66	W 103 37 33.87
	4471.00	1.49	29.60	4470.02	743.02	83.02	83.17	18.47	0.15	462545.77	759938.67	N 32 16 10.68	W 103 37 33.86
	4567.00	1.49	34.96	4565.99	838.99	85.12	85.28	19.80	0.15	462547.87	759940.00	N 32 16 10.70	W 103 37 33.84
	4663.00	1.49	45.38	4661.95	934.95	87.00	87.18	21.40	0.28	462549.77	759941.60	N 32 16 10.72	W 103 37 33.82
	4758.00	1.58	58.38	4756.92	1029.92	88.54	88.73	23.40	0.38	462551.33	759943.60	N 32 16 10.73	W 103 37 33.80
	4854.00	1.58	58.78	4852.88	1125.88	89.90	90.11	25.66	0.01	462552.71	759945.86	N 32 16 10.75	W 103 37 33.77
	4934.00	1.58	58.78	4932.85	1205.85	91.03	91.25	27.54	0.00	462553.85	759947.74	N 32 16 10.76	W 103 37 33.75
	5058.00	1.71	48.19	5056.80	1329.80	93.13	93.37	30.38	0.27	462555.97	759950.58	N 32 16 10.78	W 103 37 33.72
	5154.00	1.71	42.70	5152.76	1425.76	95.12	95.38	32.42	0.17	462557.98	759952.62	N 32 16 10.80	W 103 37 33.69
	5250.00	1.71	50.78	5248.72	1521.72	97.06	97.34	34.50	0.25	462559.94	759954.70	N 32 16 10.82	W 103 37 33.67
	5345.00	2.02	50.78	5343.67	1616.67	98.99	99.29	36.90	0.33	462561.89	759957.10	N 32 16 10.84	W 103 37 33.64
	5441.00	2.11	49.86	5439.61	1712.61	101.18	101.50	39.56	0.10	462564.10	759959.76	N 32 16 10.86	W 103 37 33.61
	5535.00	2.11	55.88	5533.54	1806.54	103.25	103.59	42.32	0.24	462566.19	759962.51	N 32 16 10.88	W 103 37 33.58
	5630.00	2.11	52.76	5628.48	1901.48	105.26	105.63	45.16	0.12	462568.23	759965.35	N 32 16 10.90	W 103 37 33.54
	5725.00	2.11	45.77	5723.41	1996.41	107.52	107.91	47.80	0.27	462570.50	759968.00	N 32 16 10.92	W 103 37 33.51
	5820.00	1.89	44.98	5818.35	2091.35	109.83	110.24	50.16	0.23	462572.83	759970.36	N 32 16 10.94	W 103 37 33.49
	5916.00	2.20	47.97	5914.29	2187.29	112.16	112.59	52.65	0.34	462575.18	759972.85	N 32 16 10.97	W 103 37 33.46
	6011.00	2.02	47.97	6009.23	2282.23	114.48	114.93	55.25	0.19	462577.53	759975.45	N 32 16 10.99	W 103 37 33.43
	6105.00	2.02	43.18	6103.17	2376.17	116.78	117.25	57.61	0.18	462579.84	759977.81	N 32 16 11.01	W 103 37 33.40
	6200.00	1.80	41.86	6198.12	2471.12	119.10	119.58	59.75	0.24	462582.18	759979.95	N 32 16 11.04	W 103 37 33.37
	6295.00	1.80	50.56	6293.07	2566.07	121.14	121.64	61.90	0.29	462584.23	759982.10	N 32 16 11.06	W 103 37 33.35
	6390.00	2.02	46.30	6388.02	2661.02	123.22	123.74	64.26	0.28	462586.34	759984.46	N 32 16 11.08	W 103 37 33.32
	6484.00	1.80	44.76	6481.97	2754.97	125.40	125.94	66.50	0.24	462588.53	759986.70	N 32 16 11.10	W 103 37 33.29
	6579.00	1.89	41.86	6576.92	2849.92	127.61	128.16	68.60	0.14	462590.76	759988.80	N 32 16 11.12	W 103 37 33.27
	6674.00	1.71	48.58	6671.87	2944.87	129.69	130.27	70.71	0.29	462592.86	759990.90	N 32 16 11.14	W 103 37 33.24
	6769.00	1.80	42.30	6766.83	3039.83	131.72	132.31	72.77	0.22	462594.90	759992.97	N 32 16 11.16	W 103 37 33.22
	6863.00	1.89	47.27	6860.78	3133.78	133.85	134.45	74.91	0.20	462597.05	759995.10	N 32 16 11.18	W 103 37 33.20
	6958.00	1.80	47.66	6955.73	3228.73	135.90	136.52	77.16	0.10	462599.12	759997.36	N 32 16 11.20	W 103 37 33.17
	7053.00	1.49	34.08	7050.69	3323.69	137.91	138.55	78.95	0.52	462601.14	759999.15	N 32 16 11.22	W 103 37 33.15
	7147.00	1.41	34.08	7144.66	3417.66	139.87	140.52	80.29	0.09	462603.11	760000.48	N 32 16 11.24	W 103 37 33.13
	7242.00	1.41	42.08	7239.63	3512.63	141.69	142.35	81.72	0.21	462604.95	760001.92	N 32 16 11.26	W 103 37 33.12
	7337.00	1.19	53.37	7334.61	3607.61	143.14	143.81	83.30	0.35	462606.40	760003.50	N 32 16 11.27	W 103 37 33.10
	7432.00	0.40	161.96	7429.60	3702.60	143.40	144.08	84.19	1.44	462606.68	760004.39	N 32 16 11.28	W 103 37 33.09

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7526.00	0.88	177.56	7523.59	3796.59	142.37	143.05	84.33	0.54	462605.64	760004.52	N 32 16 11.27	W 103 37 33.09
	7620.00	1.10	173.30	7617.58	3890.58	140.75	141.43	84.46	0.25	462604.03	760004.66	N 32 16 11.25	W 103 37 33.08
	7715.00	1.32	178.09	7712.56	3985.56	138.75	139.43	84.61	0.25	462602.03	760004.80	N 32 16 11.23	W 103 37 33.08
	7810.00	1.10	165.48	7807.54	4080.54	136.77	137.46	84.87	0.36	462600.05	760005.07	N 32 16 11.21	W 103 37 33.08
	7904.00	1.32	166.27	7901.52	4174.52	134.84	135.53	85.35	0.23	462598.13	760005.55	N 32 16 11.19	W 103 37 33.07
	7999.00	1.32	178.49	7996.49	4269.49	132.68	133.38	85.64	0.30	462595.97	760005.84	N 32 16 11.17	W 103 37 33.07
	8188.00	1.71	168.29	8185.42	4458.42	127.74	128.44	86.27	0.25	462591.03	760006.47	N 32 16 11.12	W 103 37 33.06
	8283.00	2.02	168.29	8280.37	4553.37	124.71	125.41	86.90	0.33	462588.01	760007.10	N 32 16 11.09	W 103 37 33.06
	8378.00	1.89	170.09	8375.32	4648.32	121.52	122.23	87.51	0.15	462584.82	760007.71	N 32 16 11.06	W 103 37 33.05
	8472.00	1.89	173.39	8469.27	4742.27	118.45	119.16	87.95	0.12	462581.76	760008.15	N 32 16 11.03	W 103 37 33.04
	8567.00	2.02	166.40	8564.21	4837.21	115.26	115.98	88.53	0.29	462578.57	760008.72	N 32 16 11.00	W 103 37 33.04
	8662.00	2.02	173.08	8659.15	4932.15	111.97	112.69	89.12	0.25	462575.28	760009.32	N 32 16 10.97	W 103 37 33.03
	8757.00	1.71	154.58	8754.10	5027.10	109.02	109.75	89.93	0.71	462572.34	760010.13	N 32 16 10.94	W 103 37 33.02
	8851.00	1.58	164.29	8848.07	5121.07	106.50	107.23	90.89	0.33	462569.83	760011.08	N 32 16 10.91	W 103 37 33.01
	8946.00	1.41	151.06	8943.03	5216.03	104.21	104.95	91.81	0.40	462567.54	760012.00	N 32 16 10.89	W 103 37 33.00
	9041.00	0.79	157.96	9038.02	5311.02	102.57	103.32	92.62	0.67	462565.91	760012.81	N 32 16 10.87	W 103 37 32.99
	9136.00	0.70	154.18	9133.01	5406.01	101.44	102.19	93.12	0.11	462564.78	760013.31	N 32 16 10.86	W 103 37 32.99
	9230.00	0.88	123.99	9227.00	5500.00	100.51	101.27	93.97	0.48	462563.86	760014.16	N 32 16 10.85	W 103 37 32.98
	9325.00	1.41	148.56	9321.98	5594.98	99.09	99.86	95.18	0.75	462562.46	760015.38	N 32 16 10.84	W 103 37 32.96
	9420.00	1.49	149.26	9416.95	5689.95	97.03	97.80	96.42	0.09	462560.40	760016.62	N 32 16 10.82	W 103 37 32.95
	9514.00	0.70	151.59	9510.93	5783.93	95.46	96.25	97.32	0.84	462558.84	760017.52	N 32 16 10.80	W 103 37 32.94
	9609.00	0.88	186.40	9605.92	5878.92	94.23	95.01	97.51	0.53	462557.61	760017.71	N 32 16 10.79	W 103 37 32.94
	9704.00	0.70	225.60	9700.91	5973.91	93.10	93.88	97.02	0.59	462556.48	760017.21	N 32 16 10.78	W 103 37 32.94
	9798.00	0.48	226.47	9794.91	6067.91	92.43	93.21	96.32	0.23	462555.81	760016.52	N 32 16 10.77	W 103 37 32.95
	9893.00	0.40	241.99	9889.91	6162.91	92.01	92.78	95.74	0.15	462555.38	760015.94	N 32 16 10.77	W 103 37 32.96
	9987.00	1.01	204.37	9983.90	6256.90	91.10	91.87	95.11	0.78	462554.47	760015.31	N 32 16 10.76	W 103 37 32.96
	10082.00	1.01	202.39	10078.88	6351.88	89.57	90.33	94.44	0.04	462552.93	760014.64	N 32 16 10.74	W 103 37 32.97
	10176.00	1.41	189.47	10172.86	6445.86	87.67	88.43	93.94	0.51	462551.02	760014.14	N 32 16 10.72	W 103 37 32.98
	10271.00	1.32	166.58	10267.84	6540.84	85.45	86.21	94.00	0.58	462548.81	760014.20	N 32 16 10.70	W 103 37 32.98
Last Extreme	10366.00	1.41	174.80	10362.81	6635.81	83.22	83.98	94.36	0.23	462546.58	760014.56	N 32 16 10.68	W 103 37 32.97
	10444.00	1.41	174.49	10440.79	6713.79	81.31	82.07	94.54	0.01	462544.67	760014.74	N 32 16 10.66	W 103 37 32.97
	10487.00	1.06	148.39	10483.78	6756.78	80.44	81.21	94.80	1.52	462543.80	760015.00	N 32 16 10.65	W 103 37 32.97
	10518.00	3.25	26.34	10514.76	6787.76	80.98	81.75	95.34	12.63	462544.35	760015.54	N 32 16 10.66	W 103 37 32.96
	10550.00	7.84	19.57	10546.60	6819.60	83.84	84.62	96.47	14.46	462547.22	760016.67	N 32 16 10.69	W 103 37 32.95
	10581.00	12.88	15.28	10577.09	6850.09	89.16	89.95	98.09	16.44	462552.54	760018.29	N 32 16 10.74	W 103 37 32.93
	10613.00	18.27	13.80	10607.90	6880.90	97.46	98.27	100.23	16.89	462560.86	760020.43	N 32 16 10.82	W 103 37 32.90
	10644.00	21.78	10.57	10637.02	6910.02	107.81	108.64	102.45	11.87	462571.24	760022.64	N 32 16 10.92	W 103 37 32.88
	10676.00	24.58	7.84	10666.44	6939.44	120.23	121.07	104.44	9.37	462583.67	760024.64	N 32 16 11.05	W 103 37 32.85
	10708.00	27.30	5.91	10695.21	6968.21	134.11	134.97	106.11	8.90	462597.56	760026.30	N 32 16 11.18	W 103 37 32.83
	10739.00	30.14	4.39	10722.40	6995.40	148.93	149.80	107.44	9.46	462612.40	760027.63	N 32 16 11.33	W 103 37 32.82
	10771.00	32.97	1.98	10749.66	7022.66	165.64	166.52	108.35	9.68	462629.11	760028.55	N 32 16 11.50	W 103 37 32.80
	10803.00	37.36	0.79	10775.82	7048.82	184.06	184.94	108.79	13.88	462647.53	760028.98	N 32 16 11.68	W 103 37 32.80
	10834.00	41.71	1.87	10799.72	7072.72	203.78	204.66	109.25	14.21	462667.25	760029.45	N 32 16 11.87	W 103 37 32.79
	10865.00	46.04	3.03	10822.06	7095.06	225.23	226.12	110.18	14.21	462688.71	760030.37	N 32 16 12.09	W 103 37 32.78
	10897.00	49.84	1.72	10843.50	7116.50	248.95	249.85	111.16	12.26	462712.45	760031.35	N 32 16 12.32	W 103 37 32.76
	10928.00	53.78	0.34	10862.66	7135.66	273.30	274.21	111.59	13.18	462736.80	760031.78	N 32 16 12.56	W 103 37 32.76
	10960.00	56.70	359.50	10880.90	7153.90	299.59	300.50	111.55	9.38	462763.08	760031.74	N 32 16 12.82	W 103 37 32.76
	10992.00	59.42	358.83	10897.83	7170.83	326.74	327.65	111.15	8.68	462790.23	760031.34	N 32 16 13.09	W 103 37 32.76
	11023.00	62.16	358.56	10912.96	7185.96	353.79	354.69	110.53	8.87	462817.28	760030.73	N 32 16 13.36	W 103 37 32.76
	11055.00	64.98	358.84	10927.20	7200.20	382.44	383.34	109.88	8.85	462845.92	760030.08	N 32 16 13.64	W 103 37 32.77
	11086.00	70.09	359.66	10939.04	7212.04	411.08	411.97	109.51	16.66	462874.56	760029.71	N 32 16 13.93	W 103 37 32.77
	11118.00	73.85	0.76	10948.94	7221.94	441.50	442.40	109.62	12.20	462904.98	760029.82	N 32 16 14.23	W 103 37 32.77
	11149.00	78.81	1.25	10956.27	7229.27	471.60	472.50	110.15	16.07	462935.09	760030.35	N 32 16 14.52	W 103 37 32.76

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	11181.00	84.70	1.68	10960.85	7233.85	503.24	504.15	110.96	18.45	462966.73	760031.16	N 32 16 14.84	W 103 37 32.75
	11212.00	87.04	1.90	10963.09	7236.09	534.13	535.05	111.93	7.58	462997.63	760032.13	N 32 16 15.14	W 103 37 32.73
	11244.00	87.52	2.23	10964.61	7237.61	566.07	566.99	113.08	1.82	463029.57	760033.28	N 32 16 15.46	W 103 37 32.72
	11271.00	87.87	1.61	10965.69	7238.69	593.02	593.96	113.99	2.64	463056.53	760034.18	N 32 16 15.73	W 103 37 32.71
	11366.00	87.90	1.75	10969.20	7242.20	687.89	688.85	116.77	0.15	463151.43	760036.96	N 32 16 16.66	W 103 37 32.67
	11460.00	87.11	0.82	10973.29	7246.29	781.76	782.74	118.88	1.30	463245.31	760039.07	N 32 16 17.59	W 103 37 32.63
	11555.00	86.25	0.10	10978.79	7251.79	876.58	877.57	119.64	1.18	463340.14	760039.83	N 32 16 18.53	W 103 37 32.62
	11649.00	85.56	359.89	10985.50	7258.50	970.34	971.33	119.63	0.77	463433.90	760039.82	N 32 16 19.46	W 103 37 32.61
	11746.00	85.08	358.70	10993.42	7266.42	1067.01	1068.00	118.44	1.32	463530.56	760038.63	N 32 16 20.42	W 103 37 32.62
	11841.00	88.01	358.26	10999.14	7272.14	1161.81	1162.78	115.92	3.12	463625.34	760036.12	N 32 16 21.35	W 103 37 32.64
	11935.00	90.76	358.21	11000.15	7273.15	1255.77	1256.72	113.03	2.93	463719.28	760033.22	N 32 16 22.28	W 103 37 32.67
	12029.00	90.52	357.09	10999.10	7272.10	1349.72	1350.64	109.17	1.22	463813.19	760029.37	N 32 16 23.21	W 103 37 32.70
	12124.00	90.69	355.95	10998.10	7271.10	1444.58	1445.46	103.41	1.21	463908.00	760023.60	N 32 16 24.15	W 103 37 32.76
	12218.00	90.76	356.13	10996.91	7269.91	1538.39	1539.22	96.92	0.21	464001.77	760017.11	N 32 16 25.08	W 103 37 32.83
	12313.00	90.55	356.56	10995.82	7268.82	1633.24	1634.02	90.86	0.50	464096.56	760011.06	N 32 16 26.02	W 103 37 32.89
	12408.00	90.41	357.82	10995.03	7268.03	1728.16	1728.90	86.21	1.33	464191.44	760006.40	N 32 16 26.96	W 103 37 32.94
	12502.00	90.72	358.74	10994.10	7267.10	1822.13	1822.86	83.38	1.03	464285.39	760003.58	N 32 16 27.89	W 103 37 32.97
	12596.00	90.41	359.16	10993.17	7266.17	1916.12	1916.84	81.66	0.56	464379.36	760001.86	N 32 16 28.82	W 103 37 32.98
	12691.00	90.00	359.22	10992.83	7265.83	2011.11	2011.83	80.32	0.44	464474.35	760000.52	N 32 16 29.76	W 103 37 32.99
	12786.00	90.03	359.08	10992.81	7265.81	2106.11	2106.82	78.91	0.15	464569.33	759999.11	N 32 16 30.70	W 103 37 33.00
	12881.00	90.41	358.64	10992.44	7265.44	2201.10	2201.80	77.02	0.61	464664.31	759997.22	N 32 16 31.64	W 103 37 33.01
	12976.00	90.24	357.15	10991.90	7264.90	2296.06	2296.73	73.53	1.58	464759.24	759993.73	N 32 16 32.58	W 103 37 33.05
	13070.00	90.28	356.09	10991.48	7264.48	2389.94	2390.56	67.99	1.13	464853.07	759988.19	N 32 16 33.51	W 103 37 33.10
	13165.00	90.14	355.62	10991.13	7264.13	2484.74	2485.31	61.12	0.52	464947.82	759981.32	N 32 16 34.44	W 103 37 33.18
	13259.00	89.90	355.04	10991.10	7264.10	2578.49	2579.00	53.47	0.67	465041.50	759973.67	N 32 16 35.37	W 103 37 33.26
	13354.00	90.24	354.61	10990.98	7263.98	2673.16	2673.61	44.90	0.58	465136.11	759965.10	N 32 16 36.31	W 103 37 33.35
	13449.00	90.21	354.27	10990.61	7263.61	2767.79	2768.16	35.70	0.36	465230.66	759955.89	N 32 16 37.24	W 103 37 33.45
	13544.00	90.03	354.04	10990.41	7263.41	2862.37	2862.67	26.02	0.31	465325.16	759946.22	N 32 16 38.18	W 103 37 33.56
	13639.00	90.17	353.17	10990.24	7263.24	2956.86	2957.08	15.44	0.93	465419.56	759935.64	N 32 16 39.11	W 103 37 33.67
	13732.00	89.90	354.14	10990.19	7263.19	3049.37	3049.51	5.16	1.08	465511.99	759925.36	N 32 16 40.03	W 103 37 33.78
	13826.00	90.24	353.95	10990.07	7263.07	3142.93	3143.00	-4.59	0.41	465605.48	759915.61	N 32 16 40.96	W 103 37 33.89
	13921.00	90.17	354.04	10989.73	7262.73	3237.49	3237.48	-14.53	0.12	465699.95	759905.67	N 32 16 41.89	W 103 37 34.00
	14016.00	90.03	354.60	10989.57	7262.57	3332.09	3332.01	-23.93	0.61	465794.48	759896.27	N 32 16 42.83	W 103 37 34.10
	14110.00	90.03	355.33	10989.52	7262.52	3425.79	3425.65	-32.18	0.78	465888.12	759888.02	N 32 16 43.75	W 103 37 34.19
	14205.00	89.86	355.49	10989.61	7262.61	3520.55	3520.34	-39.78	0.25	465982.81	759880.42	N 32 16 44.69	W 103 37 34.27
	14300.00	89.86	356.56	10989.84	7262.84	3615.37	3615.11	-46.37	1.13	466077.57	759873.83	N 32 16 45.63	W 103 37 34.34
	14394.00	90.00	357.61	10989.95	7262.95	3709.28	3708.99	-51.15	1.13	466171.45	759869.05	N 32 16 46.56	W 103 37 34.39
	14489.00	90.00	359.02	10989.95	7262.95	3804.26	3803.95	-53.94	1.48	466266.40	759866.26	N 32 16 47.50	W 103 37 34.41
	14584.00	89.76	359.48	10990.15	7263.15	3899.25	3898.94	-55.19	0.55	466361.39	759865.02	N 32 16 48.44	W 103 37 34.42
	14678.00	89.97	0.75	10990.38	7263.38	3993.25	3992.93	-55.00	1.37	466455.38	759865.20	N 32 16 49.37	W 103 37 34.41
	14773.00	89.90	1.90	10990.48	7263.48	4088.20	4087.91	-52.80	1.21	466550.35	759867.40	N 32 16 50.31	W 103 37 34.38
	14868.00	90.10	2.16	10990.48	7263.48	4183.11	4182.85	-49.44	0.35	466645.29	759870.77	N 32 16 51.25	W 103 37 34.33
	14963.00	90.00	2.14	10990.40	7263.40	4278.01	4277.78	-45.87	0.11	466740.22	759874.33	N 32 16 52.19	W 103 37 34.28
	15058.00	90.10	2.10	10990.32	7263.32	4372.91	4372.72	-42.36	0.11	466835.15	759877.84	N 32 16 53.13	W 103 37 34.24
	15152.00	90.03	2.27	10990.21	7263.21	4466.81	4466.65	-38.77	0.20	466929.08	759881.43	N 32 16 54.06	W 103 37 34.19
Final Survey	15228.00	89.83	2.13	10990.30	7263.30	4542.73	4542.59	-35.86	0.32	467005.02	759884.35	N 32 16 54.81	W 103 37 34.15
Proj to Bit	15300.00	89.83	2.13	10990.52	7263.52	4614.66	4614.54	-33.18	0.00	467076.96	759887.02	N 32 16 55.52	W 103 37 34.11

Survey Type: Non-Def Survey

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
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Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	25.000	Act Stns	30.000	30.000	SLB_MWD-POOR-Depth Only	Original Borehole / Cimarex Triste Draw 25 Federal #2H Gyro+MWD
	25.000	10444.000	Act Stns	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Triste Draw 25 Federal #2H Gyro+MWD
	10444.000	15228.000	Act Stns	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Triste Draw 25 Federal #2H Gyro+MWD
	15228.000	15300.000	Act Stns	30.000	30.000	SLB_BLIND+TREND	Original Borehole / Cimarex Triste Draw 25 Federal #2H Gyro+MWD