

Results of Directional Survey

API number:	30-025-40667		
OGRID:		Operator:	CIMAREX ENERGY CO.
		Property:	TRISTE DRAW;BONE SPRING # 5H

surface	ULSTR:	C	36	T	23S	R	32E
				330	FNL	2110	FWL

BH Loc	ULSTR:	N	36	T	23S	R	32E
13910	MD	9787.1	TVD	613	FSL	2137	FWL
				4667	FNL		

Top Perf/OH	ULSTR:	C	36	T	23S	R	32E
9734	MD	9689.2	TVD	532	FNL	2064	FWL

Bot Perf/OH	ULSTR:	N	36	T	23S	R	32E
13882	MD	9788.4	TVD	641	FSL	2137	FWL
				4639	FNL		

	MD	N/S	E/W	VD
	9718	-189.83	-44.99	9678.34
TOP PERFS/OH	9734	-201.50	-46.29	9689.21
	9750	-213.17	-47.59	9700.08
	13809	-4236.41	26.25	9791.86
BOT PERFS/OH	13882	-4309.32	26.85	9788.44
	13910	-4337.29	27.08	9787.13

NEXT TO LAST	13809	-4236.41	26.25	9791.86
LAST READING	13910	-4337.29	27.08	9787.13
TD	13910	-4337.29	27.08	9787.13

Surface Location	330	FN	2110	FW
Projected BHL	4667	FN	2137	FW
Location of				
Top Perfs/OH	532	FN	2064	FW
Bottom Perfs/OH	4639	FN	2137	FW

SUMMARY of Subsurface Locations

Surface Location	C-36-23S-32E	330	FN	2110	FW	Vert. Depth
Top Perfs/OH	C-36-23S-32E	532	FN	2064	FW	9689.21
Bottom Perfs/OH	N-36-23S-32E	4639	FN	2137	FW	9788.44
Projected TD	N-36-23S-32E	4667	FN	2137	FW	9787.13

SEP 09 2013



Cimarex Triste Draw 36 State #5H Gyro+MWD 0ft to 13910ft MD
(Def Survey)

PATHFINDER
A Schlumberger Company

Report Date: February 17, 2013 - 10:01 AM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: Noram 23 / Cimarex Triste Draw 36 State #5H
Well: Cimarex Triste Draw 36 State #5H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Triste Draw 36 State #5H Gyro+MWD 0ft to 13910ft MD
Survey Date: January 27, 2013
Tort / AHD / DDI / ERD Ratio: 158.730 ° / 4367.467 ft / 5.991 / 0.444
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 3.27550", W 103° 37' 48.09502"
Location Grid N/E Y/X: N 461789.700 ftUS, E 758721.100 ftUS
CRS Grid Convergence Angle: 0.3755 °
Grid Scale Factor: 0.99996321

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.351 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3714.000 ft above MSL
Seabed / Ground Elevation: 3686.000 ft above MSL
Magnetic Declination: 7.521 °
Total Gravity Field Strength: 998.4630mgn (9.80665 Based)
Total Magnetic Field Strength: 48453.596 nT
Magnetic Dip Angle: 60.136 °
Declination Date: January 27, 2013
Magnetic Declination Model: BOGM 2012
North Reference: Grid North
Grid Convergence Used: 0.3755 °
Total Corr Mag North->Grid North: 7.1453 °
Local Coord Referenced To: Structure Reference Point

HOBBS OCD

AUG 07 2013

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
SHL Triste Draw 36 State #5H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	122.53M
	135.70	1.14	122.53	135.69	0.74	-0.73	1.14	1.35	122.53	0.84	121.97M
	235.70	0.86	121.97	235.68	1.69	-1.66	2.61	3.10	122.39	0.28	106.6M
	335.70	0.81	106.60	335.67	2.30	-2.26	3.93	4.53	119.89	0.23	116.29M
	435.70	0.72	116.29	435.66	2.80	-2.74	5.17	5.85	117.91	0.16	147.74M
	535.70	0.69	147.74	535.65	3.59	-3.53	6.05	7.00	120.22	0.38	150.4M
	635.70	0.52	150.40	635.64	4.50	-4.43	6.60	7.95	123.87	0.17	156.05M
	728.10	0.48	156.05	728.04	5.23	-5.15	6.96	8.66	126.47	0.07	165.35M
	820.10	0.45	165.35	820.04	5.93	-5.85	7.21	9.28	129.05	0.09	192.74M
	912.70	0.38	192.74	912.63	6.58	-6.50	7.23	9.73	131.94	0.22	192.77M
	1003.80	0.41	192.77	1003.73	7.19	-7.11	7.10	10.05	135.07	0.03	175.56M
	1098.50	0.33	175.56	1098.43	7.79	-7.72	7.04	10.45	137.61	0.14	37.09M
	1193.20	0.07	37.09	1193.13	8.02	-7.94	7.10	10.65	138.21	0.41	303.03M
	1287.80	0.25	303.03	1287.73	7.86	-7.78	6.96	10.44	138.19	0.28	148.44M
	1382.30	0.29	148.44	1382.23	7.95	-7.87	6.91	10.48	138.72	0.56	323.79M
	1476.90	0.53	323.79	1476.83	7.80	-7.72	6.78	10.28	138.73	0.87	206.28M
	1571.70	0.28	206.28	1571.63	7.65	-7.58	6.42	9.93	139.74	0.74	350.24M
	1666.30	0.28	350.24	1666.23	7.63	-7.56	6.28	9.82	140.29	0.56	259.52M
	1760.80	0.39	259.52	1760.73	7.46	-7.39	5.92	9.47	141.30	0.51	151.4M
	1855.40	0.19	151.40	1855.32	7.65	-7.59	5.68	9.48	143.18	0.51	322.69M
	1950.00	0.41	322.69	1949.92	7.52	-7.45	5.55	9.29	143.33	0.63	224.5M
	2044.60	0.38	224.50	2044.52	7.47	-7.41	5.12	9.01	145.33	0.63	34.48M
	2139.30	0.23	34.48	2139.22	7.53	-7.48	5.01	9.00	146.16	0.64	272.82M
	2233.80	0.73	272.82	2233.72	7.34	-7.29	4.52	8.58	148.21	0.92	141.27M
	2328.60	0.45	141.27	2328.52	7.60	-7.55	4.15	8.61	151.22	1.14	342.3M
	2423.20	0.40	342.30	2423.12	7.57	-7.53	4.28	8.66	150.37	0.88	231.2M
	2517.80	0.60	231.20	2517.71	7.56	-7.52	3.79	8.42	153.24	0.88	51.93M
	2612.30	0.23	51.93	2612.21	7.75	-7.71	3.56	8.49	155.25	0.88	287.1M
	2706.80	0.56	287.10	2706.71	7.50	-7.46	3.26	8.14	156.37	0.76	180.36M
	2801.40	0.39	180.36	2801.31	7.68	-7.65	2.82	8.15	159.75	0.81	331.04M
	2896.00	0.29	331.04	2895.91	7.79	-7.76	2.70	8.22	160.80	0.70	242.1M
	2990.50	0.44	242.10	2990.41	7.75	-7.72	2.27	8.05	163.64	0.55	262.5M
	3085.30	0.05	262.50	3085.21	7.92	-7.90	1.90	8.12	166.45	0.42	257.85M
	3180.10	0.38	257.85	3180.01	7.99	-7.97	1.56	8.12	168.95	0.35	78.81M
	3275.00	0.03	78.81	3274.91	8.04	-8.03	1.27	8.13	171.00	0.43	288.14M
	3369.80	0.25	288.14	3369.70	7.97	-7.96	1.10	8.04	172.13	0.29	264.84M
	3464.40	0.26	264.84	3464.30	7.92	-7.92	0.69	7.95	175.02	0.11	274.61M
	3559.10	0.21	274.61	3559.00	7.92	-7.92	0.30	7.93	177.81	0.07	299.59M
	3653.80	0.28	299.59	3653.70	7.79	-7.79	-0.07	7.79	180.52	0.13	271.08M
	3748.50	0.25	271.08	3748.40	7.67	-7.67	-0.48	7.69	183.57	0.14	189.43M
	3843.20	0.23	189.43	3843.10	7.85	-7.86	-0.72	7.89	185.21	0.33	177.03M
	3937.80	0.26	177.03	3937.70	8.25	-8.26	-0.74	8.29	185.10	0.06	172.02M
	4032.40	0.15	172.02	4032.30	8.59	-8.60	-0.71	8.63	184.71	0.12	178.94M
	4127.00	0.02	178.94	4126.90	8.73	-8.74	-0.69	8.76	184.52	0.14	336.26M
	4221.70	0.16	336.26	4221.60	8.62	-8.63	-0.74	8.66	184.93	0.19	335.26M
	4316.40	0.23	335.26	4316.30	8.33	-8.34	-0.88	8.38	186.00	0.07	276.9M
	4411.20	0.10	276.90	4411.10	8.14	-8.15	-1.04	8.22	187.26	0.21	262.44M
	4505.80	0.06	262.44	4505.70	8.14	-8.15	-1.17	8.23	188.16	0.05	292.63M
	4600.70	0.12	292.63	4600.60	8.10	-8.12	-1.31	8.22	189.17	0.08	212.22M
	4695.30	0.13	212.22	4695.20	8.16	-8.17	-1.46	8.30	190.12	0.17	106.04M
	4790.00	0.40	106.04	4789.90	8.34	-8.35	-1.20	8.44	188.16	0.48	101.36M
	4884.60	0.36	101.36	4884.49	8.50	-8.50	-0.59	8.52	183.97	0.05	88.2M
	4979.10	0.22	88.20	4978.99	8.56	-8.56	-0.12	8.56	180.79	0.16	131.47M
	5073.80	0.06	131.47	5073.69	8.58	-8.58	0.10	8.58	179.32	0.19	193.87M
	5168.50	0.10	193.87	5168.39	8.70	-8.70	0.12	8.70	179.22	0.09	188.9M
	5263.20	0.08	188.90	5263.09	8.84	-8.84	0.09	8.84	179.43	0.02	86.7M
	5357.80	0.03	86.70	5357.69	8.91	-8.91	0.10	8.91	179.34	0.10	89.03M

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	5452.40	0.07	89.03	5452.29	8.91	-8.90	0.19	8.91	178.81	0.04	114.76M
	5547.20	0.07	114.76	5547.09	8.93	-8.93	0.30	8.93	178.10	0.03	100.59M
	5641.70	0.13	100.59	5641.59	8.98	-8.97	0.45	8.98	177.10	0.07	97.66M
	5736.40	0.17	97.66	5736.29	9.02	-9.01	0.70	9.04	175.56	0.04	101.87M
	5831.20	0.13	101.87	5831.09	9.06	-9.05	0.94	9.10	174.05	0.04	119.78M
	5926.00	0.06	119.78	5925.89	9.11	-9.10	1.09	9.16	173.16	0.08	230.03M
	6020.60	0.02	230.03	6020.49	9.14	-9.13	1.12	9.20	173.00	0.07	240.77M
	6115.30	0.05	240.77	6115.19	9.18	-9.16	1.07	9.23	173.32	0.03	257.94M
	6210.00	0.07	257.94	6209.89	9.21	-9.20	0.98	9.25	173.91	0.03	232.82M
	6304.60	0.07	232.82	6304.49	9.25	-9.24	0.88	9.28	174.57	0.03	213.54M
	6399.20	0.08	213.54	6399.09	9.34	-9.33	0.80	9.37	175.13	0.03	161.9M
	6493.80	0.10	161.90	6493.69	9.47	-9.47	0.78	9.50	175.26	0.09	186.24M
	6588.40	0.07	186.24	6588.29	9.61	-9.60	0.80	9.64	175.21	0.05	231.27M
	6683.00	0.10	231.27	6682.89	9.72	-9.71	0.73	9.74	175.68	0.07	245.26M
	6777.70	0.12	245.26	6777.59	9.81	-9.80	0.58	9.82	176.62	0.04	218.56M
	6872.50	0.17	218.56	6872.39	9.96	-9.96	0.40	9.96	177.69	0.09	199.94M
	6967.20	0.25	199.94	6967.09	10.26	-10.26	0.24	10.26	178.64	0.11	198.83M
	7062.00	0.35	198.83	7061.89	10.73	-10.73	0.08	10.73	179.58	0.11	188.75M
	7156.80	0.41	188.75	7156.69	11.34	-11.34	-0.07	11.34	180.33	0.09	197.58M
	7251.50	0.44	197.58	7251.38	12.02	-12.02	-0.23	12.02	181.08	0.08	200.25M
	7346.10	0.50	200.25	7345.98	12.75	-12.75	-0.48	12.76	182.15	0.07	198.63M
	7440.90	0.58	198.63	7440.78	13.59	-13.60	-0.78	13.62	183.27	0.09	197.35M
	7535.50	0.61	197.35	7535.37	14.52	-14.53	-1.08	14.57	184.25	0.03	191.58M
	7630.20	0.78	191.58	7630.06	15.63	-15.64	-1.36	15.70	184.97	0.19	186.42M
	7724.90	1.00	186.42	7724.75	17.08	-17.10	-1.58	17.17	185.28	0.25	181.9M
	7819.70	1.12	181.90	7819.54	18.82	-18.84	-1.70	18.92	185.17	0.15	185.92M
	7914.30	1.21	185.92	7914.12	20.74	-20.76	-1.84	20.84	185.06	0.13	191.57M
	8008.90	1.20	191.57	8008.70	22.70	-22.72	-2.14	22.83	185.38	0.13	193.52M
	8104.00	1.15	193.52	8103.78	24.60	-24.63	-2.56	24.76	185.94	0.07	194.56M
	8198.60	1.23	194.56	8198.36	26.50	-26.53	-3.04	26.71	186.53	0.09	195.86M
	8293.20	1.27	195.86	8292.93	28.48	-28.53	-3.58	28.75	187.16	0.05	195.76M
	8388.00	1.37	195.76	8387.71	30.58	-30.63	-4.18	30.91	187.76	0.11	195.83M
	8482.90	1.32	195.83	8482.58	32.71	-32.77	-4.78	33.12	188.30	0.05	193.19M
	8577.60	1.43	193.19	8577.26	34.91	-34.97	-5.35	35.38	188.70	0.13	198.63M
	8672.50	1.38	198.63	8672.13	37.14	-37.21	-5.98	37.68	189.14	0.15	202.47M
	8767.00	1.35	202.47	8766.60	39.23	-39.31	-6.77	39.89	189.78	0.10	206.86M
	8861.90	1.34	206.86	8861.47	41.25	-41.34	-7.70	42.05	190.56	0.11	213.93M
	8956.60	1.47	213.93	8956.15	43.23	-43.33	-8.88	44.23	191.58	0.23	219.32M
	9051.40	1.56	219.32	9050.91	45.22	-45.34	-10.38	46.51	192.89	0.18	223.39M
	9146.00	1.24	223.39	9145.48	46.94	-47.08	-11.90	48.56	194.18	0.35	226.49M
	9239.80	0.66	226.49	9239.27	48.04	-48.19	-12.99	49.91	195.08	0.62	202.55M
	9266.00	0.79	202.55	9265.47	48.31	-48.46	-13.16	50.21	195.20	1.25	202.47M
	9308.00	1.23	202.47	9307.46	48.99	-49.14	-13.45	50.95	195.30	1.05	198.95M
	9340.00	3.78	198.95	9339.43	50.30	-50.46	-13.92	52.34	195.42	7.98	196.23M
	9371.00	6.77	196.23	9370.29	53.01	-53.18	-14.76	55.19	195.52	9.68	192.54M
	9403.00	9.06	192.54	9401.99	57.27	-57.45	-15.84	59.59	195.41	7.33	7.76R
	9434.00	10.46	193.59	9432.54	62.37	-62.57	-17.03	64.84	195.23	4.55	24.99R
	9465.00	12.75	198.34	9462.90	68.33	-68.55	-18.77	71.07	195.31	8.00	7.36R
	9497.00	15.92	199.83	9493.90	75.79	-76.03	-21.37	78.98	195.70	9.97	8.05L
	9528.00	19.96	198.16	9523.39	84.78	-85.06	-24.46	88.51	196.04	13.14	5.87L
	9560.00	25.50	196.84	9552.89	96.53	-96.86	-28.16	100.87	196.21	17.38	10.99L
	9592.00	30.86	194.82	9581.09	111.02	-111.39	-32.26	115.97	196.15	17.01	20.3L
	9623.00	35.61	191.83	9607.01	127.51	-127.92	-36.15	132.93	195.78	16.20	26.72L
	9655.00	39.92	188.49	9632.31	146.75	-147.21	-39.57	152.44	195.05	14.90	16.84L
	9686.00	43.09	187.09	9655.52	167.07	-167.56	-42.35	172.83	194.18	10.65	9.01L
	9718.00	45.90	186.47	9678.34	189.31	-189.83	-44.99	195.09	193.33	8.89	4.22L
	9750.00	48.54	186.21	9700.08	212.62	-213.17	-47.59	218.42	192.58	8.27	2.03L
	9781.00	52.58	186.03	9719.77	236.39	-236.97	-50.14	242.21	191.95	13.04	4.13R
	9813.00	56.63	186.38	9738.30	262.28	-262.90	-52.96	268.18	191.39	12.69	2.54R
	9844.00	60.15	186.56	9754.54	288.47	-289.12	-55.93	294.49	190.95	11.37	4.37L
	9876.00	64.28	186.21	9769.46	316.56	-317.25	-59.08	322.71	190.55	12.94	3.28R
	9908.00	68.50	186.47	9782.27	345.66	-346.39	-62.32	351.95	190.20	13.21	9.6L
	9939.00	70.96	186.03	9793.01	374.53	-375.29	-65.48	380.96	189.90	8.05	13.84L
	9971.00	73.69	185.33	9802.72	404.83	-405.63	-68.50	411.37	189.58	8.78	11.92L
	10002.00	75.71	184.89	9810.90	434.58	-435.41	-71.16	441.19	189.28	6.66	24.79L
	10034.00	77.21	184.18	9818.40	465.56	-466.42	-73.62	472.20	188.97	5.16	54.35L
	10066.00	79.14	181.46	9824.95	496.82	-497.70	-75.16	503.34	188.59	10.28	26.35L
	10097.00	81.60	180.23	9830.14	527.37	-528.26	-75.61	533.64	188.15	8.85	15.89L
	10129.00	84.68	179.35	9833.96	559.13	-560.03	-75.49	565.09	187.68	10.00	24.48L
	10141.00	86.61	178.47	9834.87	571.10	-571.99	-75.26	576.92	187.50	17.67	19.09L
	10204.00	90.66	177.07	9836.37	634.04	-634.91	-72.81	639.07	186.54	6.80	35.36L
	10299.00	91.28	176.63	9834.76	728.94	-729.75	-67.59	732.87	185.29	0.80	151.03L
	10393.00	89.69	175.75	9833.97	822.79	-823.53	-61.35	825.82	184.26	1.93	68.13R
	10488.00	90.22	177.07	9834.04	917.66	-918.35	-55.40	920.02	183.45	1.50	15.33R
	10583.00	90.84	177.24	9833.16	1012.59	-1013.22	-50.68	1014.49	182.86	0.68	151.06R
	10677.00	88.29	178.65	9833.88	1106.54	-1107.15	-47.31	1108.16	182.45	3.10	20.03L
	10772.00	89.25	178.30	9835.92	1201.51	-1202.09	-44.78	1202.93	182.13	1.08	63.43L
	10867.00	89.34	178.12	9837.09	1296.48	-1297.04	-41.82	1297.71	181.85	0.21	HS
	10962.00	90.48	178.12	9837.24	1391.46	-1391.99	-38.70	1392.53	181.59	1.20	154.69R
	11057.00	88.81	178.91	9837.82	1486.44	-1486.95	-36.24	1487.39	181.40	1.94	LS
	11151.00	88.11	178.91	9840.35	1580.41	-1580.90	-34.45	1581.27	181.25	0.74	119.87L
	11246.00	87.76	178.30	9843.77	1675.34	-1675.81	-32.14	1676.12	181.10	0.74	HS

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	11341.00	89.43	178.30	9846.10	1770.29	-1770.73	-29.32	1770.98	180.95	1.76	45R
Survey 7-Feb-13	11436.00	89.69	178.56	9846.83	1865.27	-1865.70	-26.72	1865.89	180.82	0.39	90R
	11484.00	89.69	178.74	9847.09	1913.27	-1913.68	-25.59	1913.85	180.77	0.37	38.5L
	11531.00	90.13	178.39	9847.17	1960.26	-1960.67	-24.41	1960.82	180.71	1.20	50.3L
	11626.00	90.57	177.86	9846.59	2055.24	-2055.61	-21.30	2055.72	180.59	0.73	HS
	11720.00	91.01	177.86	9845.29	2149.20	-2149.54	-17.79	2149.61	180.47	0.47	75.7L
	11815.00	91.28	176.80	9843.39	2244.12	-2244.42	-13.37	2244.46	180.34	1.15	95.35L
	11910.00	91.19	175.84	9841.34	2338.96	-2339.20	-7.27	2339.21	180.18	1.01	83.47R
	12005.00	91.36	177.33	9839.23	2433.83	-2434.00	-1.62	2434.00	180.04	1.58	100.93L
	12100.00	91.19	176.45	9837.12	2528.71	-2528.84	3.54	2528.84	179.92	0.94	130.71R
	12195.00	89.52	178.39	9836.53	2623.65	-2623.73	7.81	2623.74	179.83	2.69	20.03R
Survey 9-Feb-13	12290.00	90.48	178.74	9836.53	2718.64	-2718.70	10.19	2718.72	179.79	1.08	6.43R
	12384.00	91.19	178.82	9835.16	2812.63	-2812.67	12.19	2812.69	179.75	0.76	134.76R
	12480.00	89.96	180.06	9834.19	2908.62	-2908.65	13.13	2908.68	179.74	1.82	27.44L
	12574.00	90.48	179.79	9833.83	3002.61	-3002.65	13.25	3002.68	179.75	0.62	28.8L
	12669.00	91.28	179.35	9832.37	3097.60	-3097.64	13.97	3097.67	179.74	0.96	50.93R
Survey 11-Feb-13	12764.00	91.71	179.88	9829.90	3192.56	-3192.60	14.60	3192.64	179.74	0.72	110.37L
	12859.00	91.45	179.18	9827.28	3287.53	-3287.56	15.38	3287.60	179.73	0.79	153.01L
	12954.00	90.92	178.91	9825.31	3382.51	-3382.53	16.97	3382.57	179.71	0.63	115.2L
	13049.00	90.84	178.74	9823.85	3477.49	-3477.50	18.91	3477.55	179.69	0.20	108.76L
	13144.00	90.66	178.21	9822.61	3572.47	-3572.46	21.44	3572.52	179.66	0.59	157.75R
Survey 14-Feb-13	13239.00	90.22	178.39	9821.88	3667.45	-3667.41	24.26	3667.49	179.62	0.50	18.27R
	13334.00	91.28	178.74	9820.64	3762.43	-3762.37	26.64	3762.47	179.59	1.18	48.66R
	13429.00	92.51	180.14	9817.49	3857.38	-3857.31	27.57	3857.41	179.59	1.96	31.86R
	13524.00	93.65	180.85	9812.39	3952.22	-3952.17	26.75	3952.26	179.61	1.41	31.82L
	13619.00	94.79	180.14	9805.40	4046.94	-4046.91	25.93	4046.99	179.63	1.41	154.16L
Final Survey Proj to TD	13714.00	94.44	179.97	9797.76	4141.62	-4141.60	25.84	4141.68	179.64	0.41	165.98L
	13809.00	92.68	179.53	9791.86	4236.43	-4236.41	26.25	4236.49	179.64	1.91	HS
	13910.00	92.68	179.53	9787.13	4337.32	-4337.29	27.08	4337.38	179.64	0.00	

Survey Type: Def Survey

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	28.000		Act Sins	30.000	30.000 SLB_NSG+MSHOT-Depth Only	Original Borehole / Cimarex Triste Draw 36 State #5H
	28.000	9239.800		Act Sins	30.000	30.000 SLB_NSG+MSHOT	Gyro+MWD 0ft to 13910ft MD Original Borehole / Cimarex
	9239.800	13809.000		Act Sins	30.000	30.000 SLB_MWD-STD	Triste Draw 36 State #5H Original Borehole / Cimarex
	13809.000	13910.000		Act Sins	30.000	30.000 SLB_BLIND+TREND	Triste Draw 36 State #5H Original Borehole / Cimarex Triste Draw 36 State #5H

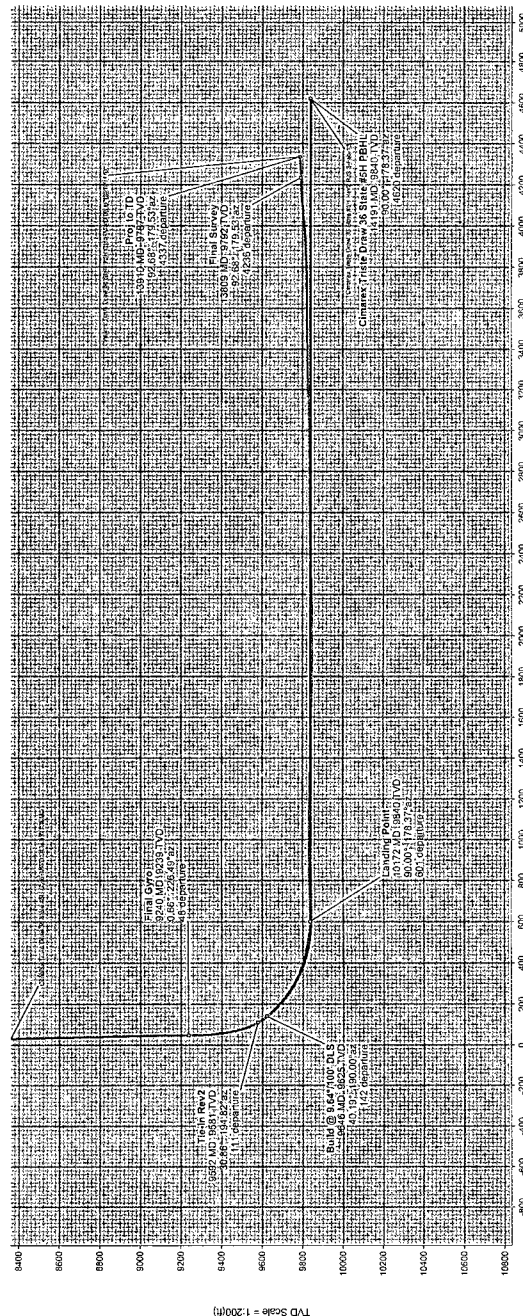


Cimarex

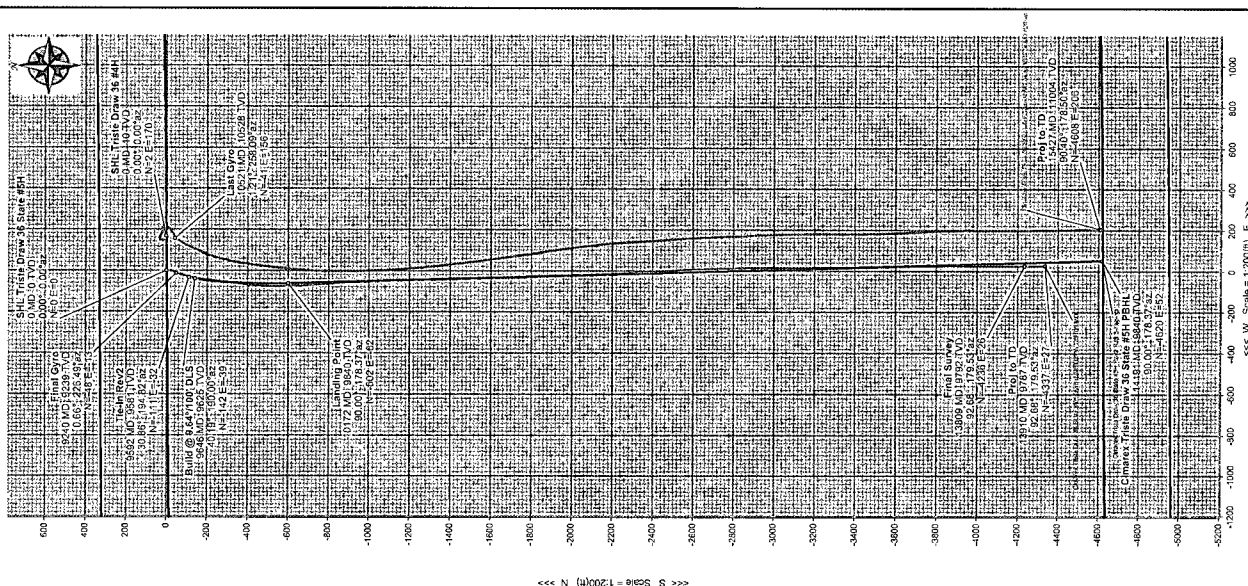
Grid North
Tot Corr (M-G 7.1510°)
Mag Dec (7.526°)
Grid Conv (0.375°)

place

Abstract The purpose of this study was to determine the effect of a 12-week, 30-min, 3 times per week, low-impact aerobically and resistance training program on the physical fitness of sedentary, middle-aged women. The study was a randomized, controlled trial. The subjects were randomly assigned to either the exercise or control group. The exercise group performed a 12-week, 30-min, 3 times per week, low-impact aerobically and resistance training program. The control group performed no exercise. The physical fitness of the subjects was measured at baseline and at 12 weeks. The results showed that the exercise group had significantly higher levels of physical fitness than the control group at 12 weeks. The results also showed that the exercise group had significantly higher levels of physical fitness than the control group at baseline. The results suggest that a 12-week, 30-min, 3 times per week, low-impact aerobically and resistance training program can improve the physical fitness of sedentary, middle-aged women.



Vertical Section (ft) Azim = 179.35° Scale = 1:200(ft) Origin = 0 N-S, 0 E-W



Drawn By: R. Schneider
 Date Created: February 03, 2013 03:45:06 PM
 Checked By:
 Checked Date:
 Approved By:
 Approved Date:



Cimarex Triste Draw 36 State #5H Gyro+MWD 0ft to 13910ft MD

(Def Survey)

Report Date: February 17, 2013 - 10:01 AM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: Noram 23 / Cimarex Triste Draw 36 State #5H
Well: Cimarex Triste Draw 36 State #5H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Triste Draw 36 State #5H Gyro+MWD 0ft to 13910ft MD
Survey Date: January 27, 2013
Tort / AHD / DDI / ERD Ratio: 158.730 ° / 4367.467 ft / 5.991 / 0.444
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 3.27550", W 103° 37' 48.09502"
Location Grid N/E Y/X: N 461789.700 ftUS, E 758721.100 ftUS
CRS Grid Convergence Angle: 0.3755 °
Grid Scale Factor: 0.99996321

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.351 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3714.000 ft above MSL
Seabed / Ground Elevation: 3686.000 ft above MSL
Magnetic Declination: 7.521 °
Total Gravity Field Strength: 998.4630mgn (9.80665 Based)
Total Magnetic Field Strength: 48453.596 nT
Magnetic Dip Angle: 60.136 °
Declination Date: January 27, 2013
Magnetic Declination Model: BGGM 2012
North Reference: Grid North
Grid Convergence Used: 0.3755 °

Total Corr Mag North->Grid North: 7.1453 °

Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
SHL Triste Draw 36 State #5H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	122.53M
	135.70	1.14	122.53	135.69	0.74	-0.73	1.14	1.35	122.53	0.84	121.97M
	235.70	0.86	121.97	235.68	1.69	-1.66	2.61	3.10	122.39	0.28	106.6M
	335.70	0.81	106.60	335.67	2.30	-2.26	3.93	4.53	119.89	0.23	116.29M
	435.70	0.72	116.29	435.66	2.80	-2.74	5.17	5.85	117.91	0.16	147.74M
	535.70	0.69	147.74	535.65	3.59	-3.53	6.05	7.00	120.22	0.38	150.4M
	635.70	0.52	150.40	635.64	4.50	-4.43	6.60	7.95	123.87	0.17	156.05M
	728.10	0.48	156.05	728.04	5.23	-5.15	6.96	8.66	126.47	0.07	165.35M
	820.10	0.45	165.35	820.04	5.93	-5.85	7.21	9.28	129.05	0.09	192.74M
	912.70	0.38	192.74	912.63	6.58	-6.50	7.23	9.73	131.94	0.22	192.77M
	1003.80	0.41	192.77	1003.73	7.19	-7.11	7.10	10.05	135.07	0.03	175.56M
	1098.50	0.33	175.56	1098.43	7.79	-7.72	7.04	10.45	137.61	0.14	37.09M
	1193.20	0.07	37.09	1193.13	8.02	-7.94	7.10	10.65	138.21	0.41	303.03M
	1287.80	0.25	303.03	1287.73	7.86	-7.78	6.96	10.44	138.19	0.28	148.44M
	1382.30	0.29	148.44	1382.23	7.95	-7.87	6.91	10.48	138.72	0.56	323.79M
	1476.90	0.53	323.79	1476.83	7.80	-7.72	6.78	10.28	138.73	0.87	206.28M
	1571.70	0.28	206.28	1571.63	7.65	-7.58	6.42	9.93	139.74	0.74	350.24M
	1666.30	0.28	350.24	1666.23	7.63	-7.56	6.28	9.82	140.29	0.56	259.52M
	1760.80	0.39	259.52	1760.73	7.46	-7.39	5.92	9.47	141.30	0.51	151.4M

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	1855.40	0.19	151.40	1855.32	7.65	-7.59	5.68	9.48	143.18	0.51	322.69M
	1950.00	0.41	322.69	1949.92	7.52	-7.45	5.55	9.29	143.33	0.63	224.5M
	2044.60	0.38	224.50	2044.52	7.47	-7.41	5.12	9.01	145.33	0.63	34.48M
	2139.30	0.23	34.48	2139.22	7.53	-7.48	5.01	9.00	146.16	0.64	272.82M
	2233.80	0.73	272.82	2233.72	7.34	-7.29	4.52	8.58	148.21	0.92	141.27M
	2328.60	0.45	141.27	2328.52	7.60	-7.55	4.15	8.61	151.22	1.14	342.3M
	2423.20	0.40	342.30	2423.12	7.57	-7.53	4.28	8.66	150.37	0.88	231.2M
	2517.80	0.60	231.20	2517.71	7.56	-7.52	3.79	8.42	153.24	0.88	51.93M
	2612.30	0.23	51.93	2612.21	7.75	-7.71	3.56	8.49	155.25	0.88	287.1M
	2706.80	0.56	287.10	2706.71	7.50	-7.46	3.26	8.14	156.37	0.76	180.36M
	2801.40	0.39	180.36	2801.31	7.68	-7.65	2.82	8.15	159.75	0.81	331.04M
	2896.00	0.29	331.04	2895.91	7.79	-7.76	2.70	8.22	160.80	0.70	242.1M
	2990.50	0.44	242.10	2990.41	7.75	-7.72	2.27	8.05	163.64	0.55	262.5M
	3085.30	0.05	262.50	3085.21	7.92	-7.90	1.90	8.12	166.45	0.42	257.85M
	3180.10	0.38	257.85	3180.01	7.99	-7.97	1.56	8.12	168.95	0.35	78.81M
	3275.00	0.03	78.81	3274.91	8.04	-8.03	1.27	8.13	171.00	0.43	288.14M
	3369.80	0.25	288.14	3369.70	7.97	-7.96	1.10	8.04	172.13	0.29	264.84M
	3464.40	0.26	264.84	3464.30	7.92	-7.92	0.69	7.95	175.02	0.11	274.61M
	3559.10	0.21	274.61	3559.00	7.92	-7.92	0.30	7.93	177.81	0.07	299.59M
	3653.80	0.28	299.59	3653.70	7.79	-7.79	-0.07	7.79	180.52	0.13	271.08M
	3748.50	0.25	271.08	3748.40	7.67	-7.67	-0.48	7.69	183.57	0.14	189.43M
	3843.20	0.23	189.43	3843.10	7.85	-7.86	-0.72	7.89	185.21	0.33	177.03M
	3937.80	0.26	177.03	3937.70	8.25	-8.26	-0.74	8.29	185.10	0.06	172.02M
	4032.40	0.15	172.02	4032.30	8.59	-8.60	-0.71	8.63	184.71	0.12	178.94M
	4127.00	0.02	178.94	4126.90	8.73	-8.74	-0.69	8.76	184.52	0.14	336.26M
	4221.70	0.16	336.26	4221.60	8.62	-8.63	-0.74	8.66	184.93	0.19	335.26M
	4316.40	0.23	335.26	4316.30	8.33	-8.34	-0.88	8.38	186.00	0.07	276.9M
	4411.20	0.10	276.90	4411.10	8.14	-8.15	-1.04	8.22	187.26	0.21	262.44M
	4505.80	0.06	262.44	4505.70	8.14	-8.15	-1.17	8.23	188.16	0.05	292.63M
	4600.70	0.12	292.63	4600.60	8.10	-8.12	-1.31	8.22	189.17	0.08	212.22M
	4695.30	0.13	212.22	4695.20	8.16	-8.17	-1.46	8.30	190.12	0.17	106.04M
	4790.00	0.40	106.04	4789.90	8.34	-8.35	-1.20	8.44	188.16	0.48	101.36M
	4884.60	0.36	101.36	4884.49	8.50	-8.50	-0.59	8.52	183.97	0.05	88.2M
	4979.10	0.22	88.20	4978.99	8.56	-8.56	-0.12	8.56	180.79	0.16	131.47M
	5073.80	0.06	131.47	5073.69	8.58	-8.58	0.10	8.58	179.32	0.19	193.87M
	5168.50	0.10	193.87	5168.39	8.70	-8.70	0.12	8.70	179.22	0.09	188.9M
	5263.20	0.08	188.90	5263.09	8.84	-8.84	0.09	8.84	179.43	0.02	86.7M
	5357.80	0.03	86.70	5357.69	8.91	-8.91	0.10	8.91	179.34	0.10	89.03M
	5452.40	0.07	89.03	5452.29	8.91	-8.90	0.19	8.91	178.81	0.04	114.76M
	5547.20	0.07	114.76	5547.09	8.93	-8.93	0.30	8.93	178.10	0.03	100.59M
	5641.70	0.13	100.59	5641.59	8.98	-8.97	0.45	8.98	177.10	0.07	97.66M
	5736.40	0.17	97.66	5736.29	9.02	-9.01	0.70	9.04	175.56	0.04	101.87M
	5831.20	0.13	101.87	5831.09	9.06	-9.05	0.94	9.10	174.05	0.04	119.78M
	5926.00	0.06	119.78	5925.89	9.11	-9.10	1.09	9.16	173.16	0.08	230.03M

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	6020.60	0.02	230.03	6020.49	9.14	-9.13	1.12	9.20	173.00	0.07	240.77M
	6115.30	0.05	240.77	6115.19	9.18	-9.16	1.07	9.23	173.32	0.03	257.94M
	6210.00	0.07	257.94	6209.89	9.21	-9.20	0.98	9.25	173.91	0.03	232.82M
	6304.60	0.07	232.82	6304.49	9.25	-9.24	0.88	9.28	174.57	0.03	213.54M
	6399.20	0.08	213.54	6399.09	9.34	-9.33	0.80	9.37	175.13	0.03	161.9M
	6493.80	0.10	161.90	6493.69	9.47	-9.47	0.78	9.50	175.26	0.09	186.24M
	6588.40	0.07	186.24	6588.29	9.61	-9.60	0.80	9.64	175.21	0.05	231.27M
	6683.00	0.10	231.27	6682.89	9.72	-9.71	0.73	9.74	175.68	0.07	245.26M
	6777.70	0.12	245.26	6777.59	9.81	-9.80	0.58	9.82	176.62	0.04	218.56M
	6872.50	0.17	218.56	6872.39	9.96	-9.96	0.40	9.96	177.69	0.09	199.94M
	6967.20	0.25	199.94	6967.09	10.26	-10.26	0.24	10.26	178.64	0.11	198.83M
	7062.00	0.35	198.83	7061.89	10.73	-10.73	0.08	10.73	179.58	0.11	188.75M
	7156.80	0.41	188.75	7156.69	11.34	-11.34	-0.07	11.34	180.33	0.09	197.58M
	7251.50	0.44	197.58	7251.38	12.02	-12.02	-0.23	12.02	181.08	0.08	200.25M
	7346.10	0.50	200.25	7345.98	12.75	-12.75	-0.48	12.76	182.15	0.07	198.63M
	7440.90	0.58	198.63	7440.78	13.59	-13.60	-0.78	13.62	183.27	0.09	197.35M
	7535.50	0.61	197.35	7535.37	14.52	-14.53	-1.08	14.57	184.25	0.03	191.58M
	7630.20	0.78	191.58	7630.06	15.63	-15.64	-1.36	15.70	184.97	0.19	186.42M
	7724.90	1.00	186.42	7724.75	17.08	-17.10	-1.58	17.17	185.28	0.25	181.9M
	7819.70	1.12	181.90	7819.54	18.82	-18.84	-1.70	18.92	185.17	0.15	185.92M
	7914.30	1.21	185.92	7914.12	20.74	-20.76	-1.84	20.84	185.06	0.13	191.57M
	8008.90	1.20	191.57	8008.70	22.70	-22.72	-2.14	22.83	185.38	0.13	193.52M
	8104.00	1.15	193.52	8103.78	24.60	-24.63	-2.56	24.76	185.94	0.07	194.56M
	8198.60	1.23	194.56	8198.36	26.50	-26.53	-3.04	26.71	186.53	0.09	195.86M
	8293.20	1.27	195.86	8292.93	28.48	-28.53	-3.58	28.75	187.16	0.05	195.76M
	8388.00	1.37	195.76	8387.71	30.58	-30.63	-4.18	30.91	187.76	0.11	195.83M
	8482.90	1.32	195.83	8482.58	32.71	-32.77	-4.78	33.12	188.30	0.05	193.19M
	8577.60	1.43	193.19	8577.26	34.91	-34.97	-5.35	35.38	188.70	0.13	198.63M
	8672.50	1.38	198.63	8672.13	37.14	-37.21	-5.98	37.68	189.14	0.15	202.47M
	8767.00	1.35	202.47	8766.60	39.23	-39.31	-6.77	39.89	189.78	0.10	206.86M
	8861.90	1.34	206.86	8861.47	41.25	-41.34	-7.70	42.05	190.56	0.11	213.93M
	8956.60	1.47	213.93	8956.15	43.23	-43.33	-8.88	44.23	191.58	0.23	219.32M
	9051.40	1.56	219.32	9050.91	45.22	-45.34	-10.38	46.51	192.89	0.18	223.39M
	9146.00	1.24	223.39	9145.48	46.94	-47.08	-11.90	48.56	194.18	0.35	226.49M
Final Gyro	9239.80	0.66	226.49	9239.27	48.04	-48.19	-12.99	49.91	195.08	0.62	202.55M
	9266.00	0.79	202.55	9265.47	48.31	-48.46	-13.16	50.21	195.20	1.25	202.47M
	9308.00	1.23	202.47	9307.46	48.99	-49.14	-13.45	50.95	195.30	1.05	198.95M
	9340.00	3.78	198.95	9339.43	50.30	-50.46	-13.92	52.34	195.42	7.98	196.23M
	9371.00	6.77	196.23	9370.29	53.01	-53.18	-14.76	55.19	195.52	9.68	192.54M
	9403.00	9.06	192.54	9401.99	57.27	-57.45	-15.84	59.59	195.41	7.33	7.76R
Survey 3-Feb-13	9434.00	10.46	193.59	9432.54	62.37	-62.57	-17.03	64.84	195.23	4.55	24.99R
	9465.00	12.75	198.34	9462.90	68.33	-68.55	-18.77	71.07	195.31	8.00	7.36R
	9497.00	15.92	199.83	9493.90	75.79	-76.03	-21.37	78.98	195.70	9.97	8.05L
	9528.00	19.96	198.16	9523.39	84.78	-85.06	-24.46	88.51	196.04	13.14	5.87L

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	9560.00	25.50	196.84	9552.89	96.53	-96.86	-28.16	100.87	196.21	17.38	10.99L
	9592.00	30.86	194.82	9581.09	111.02	-111.39	-32.26	115.97	196.15	17.01	20.3L
	9623.00	35.61	191.83	9607.01	127.51	-127.92	-36.15	132.93	195.78	16.20	26.72L
	9655.00	39.92	188.49	9632.31	146.75	-147.21	-39.57	152.44	195.05	14.90	16.84L
	9686.00	43.09	187.09	9655.52	167.07	-167.56	-42.35	172.83	194.18	10.65	9.01L
	9718.00	45.90	186.47	9678.34	189.31	-189.83	-44.99	195.09	193.33	8.89	4.22L
	9750.00	48.54	186.21	9700.08	212.62	-213.17	-47.59	218.42	192.58	8.27	2.03L
	9781.00	52.58	186.03	9719.77	236.39	-236.97	-50.14	242.21	191.95	13.04	4.13R
Survey 4-Feb-13	9813.00	56.63	186.38	9738.30	262.28	-262.90	-52.96	268.18	191.39	12.69	2.54R
	9844.00	60.15	186.56	9754.54	288.47	-289.12	-55.93	294.49	190.95	11.37	4.37L
	9876.00	64.28	186.21	9769.46	316.56	-317.25	-59.08	322.71	190.55	12.94	3.28R
	9908.00	68.50	186.47	9782.27	345.66	-346.39	-62.32	351.95	190.20	13.21	9.6L
	9939.00	70.96	186.03	9793.01	374.53	-375.29	-65.48	380.96	189.90	8.05	13.84L
	9971.00	73.69	185.33	9802.72	404.83	-405.63	-68.50	411.37	189.58	8.78	11.92L
	10002.00	75.71	184.89	9810.90	434.58	-435.41	-71.16	441.19	189.28	6.66	24.79L
	10034.00	77.21	184.18	9818.40	465.56	-466.42	-73.62	472.20	188.97	5.16	54.35L
	10066.00	79.14	181.46	9824.95	496.82	-497.70	-75.16	503.34	188.59	10.28	26.35L
	10097.00	81.60	180.23	9830.14	527.37	-528.26	-75.61	533.64	188.15	8.85	15.89L
Survey 5-Feb-13	10129.00	84.68	179.35	9833.96	559.13	-560.03	-75.49	565.09	187.68	10.00	24.48L
	10141.00	86.61	178.47	9834.87	571.10	-571.99	-75.26	576.92	187.50	17.67	19.09L
	10204.00	90.66	177.07	9836.37	634.04	-634.91	-72.81	639.07	186.54	6.80	35.36L
	10299.00	91.28	176.63	9834.76	728.94	-729.75	-67.59	732.87	185.29	0.80	151.03L
	10393.00	89.69	175.75	9833.97	822.79	-823.53	-61.35	825.82	184.26	1.93	68.13R
Survey 6-Feb-13	10488.00	90.22	177.07	9834.04	917.66	-918.35	-55.40	920.02	183.45	1.50	15.33R
	10583.00	90.84	177.24	9833.16	1012.59	-1013.22	-50.68	1014.49	182.86	0.68	151.06R
	10677.00	88.29	178.65	9833.88	1106.54	-1107.15	-47.31	1108.16	182.45	3.10	20.03L
	10772.00	89.25	178.30	9835.92	1201.51	-1202.09	-44.78	1202.93	182.13	1.08	63.43L
	10867.00	89.34	178.12	9837.09	1296.48	-1297.04	-41.82	1297.71	181.85	0.21	HS
	10962.00	90.48	178.12	9837.24	1391.46	-1391.99	-38.70	1392.53	181.59	1.20	154.69R
	11057.00	88.81	178.91	9837.82	1486.44	-1486.95	-36.24	1487.39	181.40	1.94	LS
	11151.00	88.11	178.91	9840.35	1580.41	-1580.90	-34.45	1581.27	181.25	0.74	119.87L
	11246.00	87.76	178.30	9843.77	1675.34	-1675.81	-32.14	1676.12	181.10	0.74	HS
	11341.00	89.43	178.30	9846.10	1770.29	-1770.73	-29.32	1770.98	180.95	1.76	45R
Survey 7-Feb-13	11436.00	89.69	178.56	9846.83	1865.27	-1865.70	-26.72	1865.89	180.82	0.39	90R
	11484.00	89.69	178.74	9847.09	1913.27	-1913.68	-25.59	1913.85	180.77	0.37	38.5L
	11531.00	90.13	178.39	9847.17	1960.26	-1960.67	-24.41	1960.82	180.71	1.20	50.3L
	11626.00	90.57	177.86	9846.59	2055.24	-2055.61	-21.30	2055.72	180.59	0.73	HS
	11720.00	91.01	177.86	9845.29	2149.20	-2149.54	-17.79	2149.61	180.47	0.47	75.7L
	11815.00	91.28	176.80	9843.39	2244.12	-2244.42	-13.37	2244.46	180.34	1.15	95.35L
	11910.00	91.19	175.84	9841.34	2338.96	-2339.20	-7.27	2339.21	180.18	1.01	83.47R
	12005.00	91.36	177.33	9839.23	2433.83	-2434.00	-1.62	2434.00	180.04	1.58	100.93L
	12100.00	91.19	176.45	9837.12	2528.71	-2528.84	3.54	2528.84	179.92	0.94	130.71R
	12195.00	89.52	178.39	9836.53	2623.65	-2623.73	7.81	2623.74	179.83	2.69	20.03R
	12290.00	90.48	178.74	9836.53	2718.64	-2718.70	10.19	2718.72	179.79	1.08	6.43R

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
Survey 9-Feb-13	12384.00	91.19	178.82	9835.16	2812.63	-2812.67	12.19	2812.69	179.75	0.76	134.76R
	12480.00	89.96	180.06	9834.19	2908.62	-2908.65	13.13	2908.68	179.74	1.82	27.44L
	12574.00	90.48	179.79	9833.83	3002.61	-3002.65	13.25	3002.68	179.75	0.62	28.8L
	12669.00	91.28	179.35	9832.37	3097.60	-3097.64	13.97	3097.67	179.74	0.96	50.93R
Survey 11-Feb-13	12764.00	91.71	179.88	9829.90	3192.56	-3192.60	14.60	3192.64	179.74	0.72	110.37L
	12859.00	91.45	179.18	9827.28	3287.53	-3287.56	15.38	3287.60	179.73	0.79	153.01L
	12954.00	90.92	178.91	9825.31	3382.51	-3382.53	16.97	3382.57	179.71	0.63	115.2L
	13049.00	90.84	178.74	9823.85	3477.49	-3477.50	18.91	3477.55	179.69	0.20	108.76L
	13144.00	90.66	178.21	9822.61	3572.47	-3572.46	21.44	3572.52	179.66	0.59	157.75R
Survey 14-Feb-13	13239.00	90.22	178.39	9821.88	3667.45	-3667.41	24.26	3667.49	179.62	0.50	18.27R
	13334.00	91.28	178.74	9820.64	3762.43	-3762.37	26.64	3762.47	179.59	1.18	48.66R
	13429.00	92.51	180.14	9817.49	3857.38	-3857.31	27.57	3857.41	179.59	1.96	31.86R
	13524.00	93.65	180.85	9812.39	3952.22	-3952.17	26.75	3952.26	179.61	1.41	31.82L
	13619.00	94.79	180.14	9805.40	4046.94	-4046.91	25.93	4046.99	179.63	1.41	154.16L
Final Survey	13714.00	94.44	179.97	9797.76	4141.62	-4141.60	25.84	4141.68	179.64	0.41	165.98L
Proj to TD	13809.00	92.68	179.53	9791.86	4236.43	-4236.41	26.25	4236.49	179.64	1.91	HS
	13910.00	92.68	179.53	9787.13	4337.32	-4337.29	27.08	4337.38	179.64	0.00	

Survey Type: Def Survey

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	28.000	Act Stns	30.000	30.000	SLB_NSG+MSHOT-Depth Only	Original Borehole / Cimarex Triste Draw 36 State #5H Gyro+MWD 0ft to 13910ft MD
	28.000	9239.800	Act Stns	30.000	30.000	SLB_NSG+MSHOT	Original Borehole / Cimarex Triste Draw 36 State #5H Gyro+MWD
	9239.800	13809.000	Act Stns	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Triste Draw 36 State #5H Gyro+MWD
	13809.000	13910.000	Act Stns	30.000	30.000	SLB_BLIND+TREND	Original Borehole / Cimarex Triste Draw 36 State #5H Gyro+MWD