



Cimarex Scoter 6 Federal #4HST01 MWD 8606ft to 11740 Survey Report

(Def Survey)

Report Date: November 12, 2014 - 09:22 AM
Client: Cimarex
Field: NM Eddy County (NAD 83)
Structure / Slot: Cimarex Scoter 6 Federal #4H / Cimarex Scoter 6 Federal #4H
Well: Cimarex Scoter 6 Federal #4H
Borehole: ST01
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Scoter 6 Federal #4HST01 MWD 8606ft to 11740
Survey Date: November 04, 2014
Tort / AHD / DDI / ERD Ratio: 180.223 ° / 4835.557 ft / 6.145 / 0.660
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 9' 9.73596", W 104° 13' 54.65976"
Location Grid N/E Y/X: N 419304.000 ftUS, E 572743.900 ftUS
CRS Grid Convergence Angle: 0.0540 °
Grid Scale Factor: 0.99991022
Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 0.843 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3317.000 ft above
Seabed / Ground Elevation: 3299.000 ft above
Magnetic Declination: 7.638 °
Total Gravity Field Strength: 998.4367mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48111.550 nT
Magnetic Dip Angle: 59.911 °
Declination Date: November 04, 2014
Magnetic Declination Model: BGGM 2014
North Reference: Grid North
Grid Convergence Used: 0.0540 °
Total Corr Mag North->Grid North: 7.5840 °
Local Coord Referenced To: Structure Reference Point

Accepted for record
MWD
Provide signature page for Survey

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
SHL Scoter Federal #4H	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	N/A	57.74M
	105.00	0.88	57.74	105.00	0.44	0.43	0.68	0.81	57.74	0.84	72.24M
	158.00	1.19	72.24	157.99	0.84	0.82	1.55	1.75	62.25	0.76	74.27M
	191.00	1.33	74.27	190.98	1.06	1.02	2.25	2.47	65.49	0.45	79.07M
	224.00	1.33	79.07	223.97	1.24	1.20	2.99	3.22	68.13	0.34	80.7M
	343.00	1.19	80.70	342.94	1.74	1.66	5.57	5.81	73.37	0.12	74.27M
	465.00	1.10	74.27	464.92	2.30	2.18	7.94	8.24	74.62	0.13	65.14M
	524.00	1.10	65.14	523.91	2.71	2.58	9.00	9.36	74.03	0.30	68.54M
	582.00	1.10	68.54	581.90	3.16	3.01	10.02	10.47	73.27	0.11	68.85M
	640.00	1.02	68.85	639.89	3.57	3.40	11.02	11.54	72.84	0.14	69.33M
	730.00	0.31	69.33	729.88	3.95	3.78	12.00	12.58	72.52	0.79	79.47M
	792.00	1.02	79.47	791.87	4.12	3.94	12.70	13.30	72.77	1.16	75.46M
	822.00	0.88	75.46	821.87	4.24	4.05	13.18	13.79	72.94	0.52	74.88M
	883.00	0.88	74.88	882.86	4.49	4.28	14.09	14.73	73.09	0.01	81.4M
	942.00	0.80	81.40	941.86	4.68	4.46	14.93	15.59	73.36	0.21	82.9M
	1003.00	0.88	82.90	1002.85	4.82	4.59	15.82	16.47	73.83	0.14	86.3M
	1039.00	0.80	86.30	1038.85	4.88	4.64	16.35	16.99	74.16	0.26	85.28M
	1127.00	0.88	85.28	1126.84	4.99	4.73	17.63	18.26	74.98	0.09	91.23M

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	1185.00	0.88	91.23	1184.83	5.03	4.76	18.52	19.12	75.59	0.16	85.19M
	1318.00	1.41	85.19	1317.80	5.19	4.87	21.17	21.73	77.04	0.41	88.19M
	1380.00	1.72	88.19	1379.78	5.30	4.97	22.86	23.40	77.74	0.52	91.23M
	1444.00	1.90	91.23	1443.75	5.34	4.98	24.88	25.38	78.69	0.32	97.45M
	1506.00	2.03	97.45	1505.71	5.21	4.81	27.00	27.43	79.90	0.40	93.92M
	1568.00	2.12	93.92	1567.67	5.02	4.59	29.23	29.59	81.08	0.25	93.3M
	1606.00	1.81	93.30	1605.65	4.96	4.51	30.53	30.86	81.60	0.82	94.62M
	1730.00	3.14	94.62	1729.53	4.65	4.12	35.87	36.11	83.45	1.07	101.06M
	1792.00	3.54	101.06	1791.43	4.20	3.62	39.45	39.61	84.76	0.88	116.17M
	1856.00	3.14	116.17	1855.32	3.10	2.46	42.96	43.03	86.72	1.50	129.53M
	1919.00	1.59	129.53	1918.26	1.81	1.15	45.18	45.19	88.55	2.59	153.59M
	1981.00	1.19	153.59	1980.24	0.70	0.02	46.13	46.13	89.97	1.13	156.58M
	2022.00	1.19	156.58	2021.24	-0.06	-0.75	46.49	46.49	90.92	0.15	156.01M
	2137.00	1.19	156.01	2136.21	-2.24	-2.94	47.45	47.54	93.54	0.01	150.85M
	2262.00	1.19	150.85	2261.18	-4.54	-5.25	48.61	48.89	96.17	0.09	156.5M
	2325.00	1.10	156.50	2324.17	-5.66	-6.38	49.17	49.58	97.39	0.23	161.3M
	2450.00	1.10	161.30	2449.15	-7.88	-8.62	50.03	50.77	99.77	0.07	153.28M
	2513.00	1.10	153.28	2512.14	-8.99	-9.73	50.50	51.43	100.91	0.24	159.1M
	2575.00	1.02	159.10	2574.13	-10.03	-10.78	50.96	52.09	101.94	0.22	158.7M
	2638.00	0.88	158.70	2637.12	-11.00	-11.75	51.34	52.67	102.89	0.22	168.53M
	2701.00	0.80	168.53	2700.11	-11.87	-12.63	51.60	53.13	103.76	0.26	172.54M
	2764.00	0.80	172.54	2763.10	-12.74	-13.50	51.75	53.48	104.62	0.09	188.66M
	2808.00	0.71	188.66	2807.10	-13.31	-14.08	51.74	53.62	105.22	0.52	191.79M
	2871.00	0.62	191.79	2870.10	-14.03	-14.79	51.62	53.69	105.99	0.15	179.85M
	2934.00	0.62	179.85	2933.09	-14.71	-15.47	51.55	53.82	106.70	0.20	204.44M
	3025.00	0.62	204.44	3024.09	-15.65	-16.41	51.34	53.90	107.72	0.29	202.63M
	3084.00	0.62	202.63	3083.08	-16.24	-17.00	51.09	53.84	108.40	0.03	198.1M
	3146.00	0.62	198.10	3145.08	-16.87	-17.62	50.86	53.82	109.11	0.08	207.04M
	3209.00	0.62	207.04	3208.08	-17.50	-18.25	50.60	53.79	109.84	0.15	203.21M
	3272.00	0.49	203.21	3271.07	-18.06	-18.80	50.33	53.73	110.48	0.21	222.46M
	3335.00	0.49	222.46	3334.07	-18.51	-19.25	50.05	53.62	111.04	0.26	208.94M
	3398.00	0.62	208.94	3397.07	-19.01	-19.75	49.70	53.48	111.67	0.29	229.78M
	3462.00	0.62	229.78	3461.07	-19.55	-20.27	49.27	53.28	112.37	0.35	215.94M
	3525.00	0.62	215.94	3524.06	-20.05	-20.77	48.81	53.04	113.05	0.24	219.47M
	3588.00	0.49	219.47	3587.06	-20.54	-21.25	48.44	52.89	113.69	0.21	208.72M
	3650.00	0.62	208.72	3649.06	-21.04	-21.75	48.11	52.80	114.33	0.27	221.98M
	3714.00	0.62	221.98	3713.05	-21.61	-22.31	47.71	52.67	115.06	0.22	210.13M
	3777.00	0.62	210.13	3776.05	-22.16	-22.86	47.31	52.54	115.79	0.20	224.49M
	3840.00	0.71	224.49	3839.04	-22.74	-23.43	46.86	52.40	116.57	0.30	213.34M
	3903.00	0.62	213.34	3902.04	-23.31	-24.00	46.40	52.24	117.34	0.25	219.47M
	3966.00	0.49	219.47	3965.04	-23.81	-24.49	46.05	52.15	118.01	0.23	218.76M
	4029.00	0.62	218.76	4028.03	-24.29	-24.96	45.66	52.04	118.67	0.21	222.07M
	4090.00	0.49	222.07	4089.03	-24.75	-25.41	45.28	51.92	119.30	0.22	215.24M

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	4154.00	0.62	215.24	4153.03	-25.24	-25.90	44.90	51.83	119.98	0.23	222.38M
	4216.00	0.71	222.38	4215.02	-25.80	-26.46	44.44	51.72	120.77	0.20	219.47M
	4281.00	0.80	219.47	4280.02	-26.46	-27.11	43.88	51.58	121.70	0.15	225.68M
	4344.00	0.80	225.68	4343.01	-27.11	-27.75	43.29	51.42	122.66	0.14	223.39M
	4406.00	0.71	223.39	4405.01	-27.70	-28.33	42.72	51.26	123.56	0.15	218.67M
	4470.00	0.62	218.67	4469.00	-28.27	-28.89	42.23	51.17	124.38	0.16	209.33M
	4534.00	0.71	209.33	4533.00	-28.89	-29.51	41.82	51.18	125.21	0.22	211.14M
	4597.00	0.88	211.14	4595.99	-29.65	-30.26	41.38	51.26	126.18	0.27	218.54M
	4659.00	0.71	218.54	4657.99	-30.37	-30.97	40.89	51.29	127.14	0.32	218.37M
	4722.00	0.80	218.37	4720.98	-31.02	-31.62	40.37	51.28	128.07	0.14	219.47M
	4786.00	0.80	219.47	4784.97	-31.73	-32.32	39.81	51.28	129.07	0.02	212.95M
	4849.00	0.88	212.95	4847.97	-32.48	-33.06	39.27	51.33	130.09	0.20	217.97M
	4912.00	1.10	217.97	4910.96	-33.37	-33.94	38.63	51.43	131.30	0.38	219.07M
	4976.00	1.10	219.07	4974.95	-34.34	-34.91	37.87	51.50	132.67	0.03	216.78M
	5039.00	1.33	216.78	5037.93	-35.41	-35.96	37.05	51.63	134.15	0.37	209.95M
	5102.00	1.19	209.95	5100.92	-36.58	-37.11	36.29	51.90	135.65	0.33	207.92M
	5165.00	1.19	207.92	5163.90	-37.73	-38.26	35.65	52.30	137.02	0.07	208.94M
	5228.00	1.33	208.94	5226.89	-38.96	-39.48	34.99	52.75	138.45	0.23	211.62M
	5291.00	1.50	211.62	5289.87	-40.31	-40.82	34.21	53.26	140.04	0.29	204.84M
	5355.00	1.41	204.84	5353.85	-41.75	-42.25	33.44	53.88	141.64	0.30	204.84M
	5417.00	1.50	204.84	5415.83	-43.19	-43.67	32.78	54.60	143.11	0.15	205.32M
	5480.00	1.41	205.32	5478.81	-44.65	-45.12	32.10	55.37	144.57	0.14	206.95M
	5543.00	1.41	206.95	5541.79	-46.05	-46.52	31.41	56.13	145.97	0.06	213.25M
	5605.00	1.59	213.25	5603.77	-47.46	-47.91	30.60	56.85	147.44	0.39	195.72M
	5668.00	1.59	195.72	5666.74	-49.04	-49.49	29.88	57.81	148.88	0.77	180.38M
	5731.00	1.50	180.38	5729.72	-50.71	-51.15	29.64	59.12	149.91	0.67	178.35M
	5794.00	1.33	178.35	5792.70	-52.27	-52.71	29.65	60.48	150.64	0.28	171.65M
	5856.00	0.40	171.65	5854.69	-53.20	-53.64	29.71	61.32	151.02	1.51	183.38M
	5919.00	0.71	183.38	5917.69	-53.81	-54.25	29.72	61.85	151.29	0.52	250.84M
	5982.00	0.62	250.84	5980.69	-54.31	-54.75	29.37	62.13	151.79	1.18	256.48M
	6045.00	0.80	256.48	6043.68	-54.54	-54.96	28.62	61.97	152.49	0.31	186.46M
	6108.00	0.62	186.46	6106.68	-54.99	-55.41	28.16	62.15	153.06	1.31	150.37M
	6171.00	1.33	150.37	6169.67	-55.96	-56.38	28.48	63.16	153.20	1.44	150.77M
	6234.00	1.02	150.77	6232.66	-57.07	-57.51	29.11	64.46	153.15	0.49	160.9M
	6298.00	1.33	160.90	6296.64	-58.26	-58.70	29.63	65.76	153.21	0.58	145.65M
	6360.00	1.41	145.65	6358.63	-59.56	-60.01	30.30	67.23	153.21	0.60	142.26M
	6423.00	1.59	142.26	6421.60	-60.88	-61.35	31.27	68.86	152.99	0.32	147.07M
	6486.00	1.59	147.07	6484.58	-62.29	-62.77	32.28	70.59	152.78	0.21	159.58M
	6555.00	1.19	159.58	6553.56	-63.75	-64.24	33.05	72.25	152.77	0.72	176.33M
Final Extreme Survey	6623.00	0.88	176.33	6621.55	-64.93	-65.43	33.33	73.43	153.00	0.63	183.93M
	6652.00	0.93	183.93	6650.54	-65.39	-65.88	33.33	73.84	153.17	0.45	38.09M
	6715.00	4.06	38.09	6713.50	-64.12	-64.64	34.67	73.35	151.79	7.71	22.49M
	6778.00	10.34	22.49	6775.98	-57.08	-57.65	38.22	69.17	146.46	10.35	34.29L

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	6840.00	15.40	10.29	6836.41	-43.78	-44.40	41.82	60.99	136.72	9.22	52.99R
	6904.00	18.35	21.41	6897.66	-25.96	-26.65	47.02	54.04	119.55	6.81	36.77R
	6967.00	24.20	31.48	6956.36	-5.54	-6.38	57.39	57.74	96.35	10.92	16.24L
	7030.00	31.56	27.43	7012.02	20.35	19.30	71.75	74.30	74.94	12.06	29.82L
	7093.00	38.81	20.98	7063.49	53.69	52.42	86.44	101.09	58.76	12.92	46.75L
	7157.00	44.53	12.78	7111.31	94.54	93.10	98.60	135.61	46.64	12.33	49.84L
	7219.00	50.52	4.12	7153.21	139.78	138.25	105.14	173.69	37.25	14.11	28.23L
	7282.00	57.96	359.48	7190.01	190.84	189.29	106.65	217.27	29.40	13.23	1.9R
	7345.00	65.99	359.77	7219.59	246.40	244.86	106.29	266.93	23.47	12.75	2.84R
	7408.00	73.16	0.14	7241.56	305.39	303.86	106.25	321.90	19.27	11.39	15.4L
	7471.00	79.02	358.50	7256.70	366.49	364.98	105.51	379.93	16.12	9.64	50.41L
	7534.00	82.50	354.29	7266.82	428.46	427.01	101.59	438.93	13.38	8.60	54.88L
	7597.00	84.32	351.70	7274.05	490.45	489.12	93.96	498.07	10.87	5.00	117.71R
	7660.00	83.83	352.64	7280.55	552.40	551.20	85.42	557.78	8.81	1.68	57.22R
	7722.00	84.62	353.87	7286.79	613.54	612.46	78.18	617.43	7.27	2.35	80.96R
	7785.00	84.80	355.00	7292.60	675.88	674.89	72.09	678.73	6.10	1.81	62.97R
	7848.00	85.35	356.08	7298.01	738.38	737.47	67.21	740.53	5.21	1.92	35.52R
	7911.00	87.83	357.85	7301.75	801.11	800.26	63.89	802.81	4.56	4.83	32.25L
	7975.00	88.86	357.20	7303.60	864.98	864.17	61.12	866.33	4.05	1.90	108.28R
	8038.00	88.52	358.23	7305.04	927.87	927.11	58.61	928.96	3.62	1.72	23.08R
	8101.00	90.21	358.95	7305.74	990.81	990.08	57.06	991.72	3.30	2.92	103.39L
	8164.00	89.86	357.48	7305.70	1053.74	1053.05	55.10	1054.49	3.00	2.40	164.05R
	8227.00	89.79	357.50	7305.89	1116.64	1115.99	52.34	1117.21	2.69	0.12	164.98R
	8290.00	89.38	357.61	7306.35	1179.53	1178.93	49.65	1179.97	2.41	0.67	51.75L
	8353.00	89.79	357.09	7306.81	1242.41	1241.86	46.74	1242.74	2.16	1.05	123.93R
	8416.00	88.62	358.83	7307.68	1305.32	1304.81	44.50	1305.57	1.95	3.33	75.01R
	8480.00	89.21	1.03	7308.89	1369.30	1368.79	44.42	1369.51	1.86	3.56	50.11L
	8543.00	90.28	359.75	7309.17	1432.29	1431.79	44.85	1432.49	1.79	2.65	170.08L
Tie In - Original wellbore	8606.00	88.28	359.40	7309.97	1495.27	1494.78	44.38	1495.44	1.70	3.22	109.9R
	8624.00	88.11	359.87	7310.53	1513.26	1512.77	44.27	1513.42	1.68	2.78	96.13R
	8657.00	87.69	3.83	7311.74	1546.22	1545.72	45.33	1546.39	1.68	12.06	103.24R
	8688.00	87.14	6.18	7313.14	1577.11	1576.57	48.03	1577.30	1.75	7.78	147.41R
	8727.00	86.11	6.84	7315.44	1615.85	1615.25	52.45	1616.10	1.86	3.14	56.28L
	8822.00	86.63	6.06	7321.45	1710.20	1709.46	63.10	1710.63	2.11	0.99	27.19L
	8916.00	88.07	5.32	7325.80	1803.76	1802.89	72.41	1804.35	2.30	1.72	42.62L
	9010.00	89.07	4.40	7328.14	1897.50	1896.53	80.37	1898.23	2.43	1.45	46.88L
	9073.00	89.66	3.77	7328.84	1960.40	1959.36	84.85	1961.20	2.48	1.37	10.47L
	9136.00	90.58	3.60	7328.71	2023.32	2022.23	88.90	2024.18	2.52	1.49	88.7L
	9199.00	90.59	3.16	7328.07	2086.25	2085.12	92.62	2087.17	2.54	0.70	19.44L
	9261.00	90.76	3.10	7327.34	2148.20	2147.02	96.00	2149.17	2.56	0.29	111.47L
	9324.00	90.52	2.49	7326.63	2211.16	2209.94	99.07	2212.16	2.57	1.04	56.31L
	9387.00	90.76	2.13	7325.93	2274.13	2272.89	101.61	2275.16	2.56	0.69	141.01L

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	9450.00	90.34	1.79	7325.32	2337.12	2335.85	103.77	2338.15	2.54	0.86	101.77L
	9512.00	90.24	1.31	7325.01	2399.11	2397.82	105.45	2400.14	2.52	0.79	98.26L
	9576.00	89.97	359.45	7324.89	2463.11	2461.82	105.87	2464.09	2.46	2.94	90L
	9639.00	89.97	358.49	7324.93	2526.07	2524.81	104.74	2526.98	2.38	1.52	78.69L
	9702.00	90.00	358.34	7324.94	2589.02	2587.78	102.99	2589.83	2.28	0.24	69.44L
	9765.00	90.03	358.26	7324.93	2651.96	2650.75	101.13	2652.68	2.18	0.14	81.57L
	9828.00	90.07	357.99	7324.87	2714.88	2713.72	99.06	2715.53	2.09	0.43	124.99L
	9891.00	89.86	357.69	7324.91	2777.80	2776.68	96.69	2778.36	1.99	0.58	18.43R
	9954.00	90.07	357.76	7324.95	2840.70	2839.63	94.19	2841.19	1.90	0.35	96.01R
	10017.00	90.03	358.14	7324.89	2903.62	2902.59	91.94	2904.04	1.81	0.61	33.69R
	10080.00	90.21	358.26	7324.76	2966.56	2965.55	89.96	2966.92	1.74	0.34	25.94R
	10143.00	90.58	358.44	7324.33	3029.50	3028.53	88.14	3029.81	1.67	0.65	62.15L
	10206.00	90.86	357.91	7323.53	3092.42	3091.49	86.14	3092.69	1.60	0.95	34.99R
	10268.00	90.96	357.98	7322.55	3154.34	3153.44	83.91	3154.56	1.52	0.20	95.71L
	10331.00	90.93	357.68	7321.51	3217.24	3216.39	81.53	3217.42	1.45	0.48	132.82R
	10394.00	90.55	358.09	7320.70	3280.15	3279.34	79.20	3280.30	1.38	0.89	118.74L
	10457.00	90.38	357.78	7320.19	3343.07	3342.30	76.93	3343.18	1.32	0.56	59.53L
	10520.00	90.48	357.61	7319.71	3405.97	3405.24	74.40	3406.06	1.25	0.31	87.36R
	10583.00	90.52	358.48	7319.16	3468.89	3468.20	72.25	3468.96	1.19	1.38	106.26R
	10647.00	90.38	358.96	7318.66	3532.85	3532.19	70.82	3532.90	1.15	0.78	23.63R
	10710.00	90.86	359.17	7317.98	3595.81	3595.17	69.79	3595.85	1.11	0.83	90R
	10773.00	90.86	359.43	7317.03	3658.78	3658.16	69.02	3658.81	1.08	0.41	100.88L
	10836.00	90.76	358.91	7316.14	3721.75	3721.15	68.11	3721.77	1.05	0.84	102.34L
	10899.00	90.69	358.59	7315.35	3784.70	3784.13	66.74	3784.72	1.01	0.52	79.06R
	10962.00	90.86	359.47	7314.49	3847.66	3847.11	65.67	3847.67	0.98	1.42	169.22L
	11025.00	90.65	359.43	7313.66	3910.64	3910.10	65.07	3910.65	0.95	0.34	96.86R
	11088.00	90.52	0.51	7313.02	3973.63	3973.10	65.03	3973.63	0.94	1.73	135R
	11151.00	90.48	0.55	7312.47	4036.62	4036.10	65.62	4036.63	0.93	0.09	112.52R
	11214.00	90.31	0.96	7312.04	4099.62	4099.09	66.45	4099.63	0.93	0.70	113.63R
	11277.00	90.17	1.28	7311.77	4162.62	4162.08	67.68	4162.63	0.93	0.55	56.31R
	11341.00	90.21	1.34	7311.56	4226.62	4226.06	69.14	4226.62	0.94	0.11	59.42L
	11404.00	90.34	1.12	7311.26	4289.62	4289.04	70.49	4289.62	0.94	0.41	81.65L
	11467.00	90.45	0.37	7310.82	4352.61	4352.04	71.31	4352.62	0.94	1.20	80.69L
	11530.00	90.55	359.76	7310.27	4415.61	4415.03	71.38	4415.61	0.93	0.98	38.99R
	11593.00	90.76	359.93	7309.55	4478.59	4478.03	71.21	4478.60	0.91	0.43	90L
Final Survey 11- Nov-2014	11667.00	90.76	358.97	7308.57	4552.56	4552.02	70.50	4552.56	0.89	1.30	HS
Proj to Bit - TD	11740.00	90.76	358.97	7307.60	4625.52	4625.00	69.19	4625.52	0.86	0.00	

Survey Type: Def Survey

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

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
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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	18.000	Act Stns	30.000	30.000	SLB_MWD-POOR-Depth Only	Original Borehole / Cimarex Scoter 6 Federal #4H Surveys
	1	18.000	6623.000	Act Stns	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Scoter 6 Federal #4H Surveys
	1	6623.000	8606.000	Act Stns	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Scoter 6 Federal #4H Surveys
	1	8606.000	11667.000	Act Stns	30.000	30.000	SLB_MWD-STD	ST01 / Cimarex Scoter 6 Federal #4HST01 MWD 8606ft to 11740
	1	11667.000	11740.000	Act Stns	30.000	30.000	SLB_BLIND+TREND	ST01 / Cimarex Scoter 6 Federal #4HST01 MWD 8606ft to 11740

