

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	15836.00	90.07	359.10	9456.04	6605.72	6605.58	-710.20	1.50	425978.28	571223.89	N 32 10 15.81	W 104 14 12.27
	15931.00	89.59	357.84	9456.32	6700.88	6700.55	-712.74	1.42	426074.23	571221.35	N 32 10 16.75	W 104 14 12.30
	16026.00	89.35	357.00	9457.20	6795.58	6795.45	-717.02	0.92	426169.12	571217.08	N 32 10 17.69	W 104 14 12.35
	16120.00	89.48	358.72	9458.16	6889.51	6889.37	-720.53	1.83	426263.04	571213.57	N 32 10 18.62	W 104 14 12.38
	16215.00	89.48	359.99	9459.02	6984.50	6984.36	-721.60	1.34	426358.02	571212.50	N 32 10 19.56	W 104 14 12.40
	16310.00	89.69	360.00	9459.71	7079.50	7079.36	-721.80	0.22	426453.01	571212.49	N 32 10 20.50	W 104 14 12.40
	16405.00	89.42	0.07	9460.44	7174.49	7174.35	-721.55	0.29	426548.00	571212.55	N 32 10 21.44	W 104 14 12.40
	16500.00	89.52	0.17	9461.32	7269.49	7269.35	-721.35	0.15	426642.98	571212.75	N 32 10 22.38	W 104 14 12.39
	16595.00	90.07	0.42	9461.68	7364.49	7364.35	-720.86	0.64	426737.97	571213.24	N 32 10 23.32	W 104 14 12.39
	16690.00	89.11	0.14	9462.34	7459.48	7459.34	-720.39	1.05	426832.96	571213.70	N 32 10 24.26	W 104 14 12.38
	16785.00	89.55	359.90	9463.45	7554.47	7554.34	-720.36	0.53	426927.94	571213.74	N 32 10 25.20	W 104 14 12.38
	16880.00	90.14	0.65	9463.71	7649.47	7649.33	-719.90	1.00	427022.93	571214.19	N 32 10 26.14	W 104 14 12.37
	16975.00	91.10	0.82	9462.68	7744.46	7744.32	-718.69	1.03	427117.91	571215.41	N 32 10 27.08	W 104 14 12.36
	17069.00	90.03	0.34	9461.76	7839.45	7839.31	-717.73	1.25	427211.89	571216.36	N 32 10 28.01	W 104 14 12.35
	17164.00	90.31	0.50	9461.47	7933.44	7933.30	-716.96	0.40	427306.88	571217.14	N 32 10 28.95	W 104 14 12.34
	17259.00	89.63	0.47	9461.38	8028.44	8028.30	-716.07	0.52	427401.86	571218.03	N 32 10 29.89	W 104 14 12.33
	17354.00	89.69	0.11	9461.76	8123.44	8123.30	-715.59	0.41	427496.85	571218.51	N 32 10 30.83	W 104 14 12.32
	17450.00	90.28	359.78	9461.78	8219.43	8219.30	-715.86	0.70	427592.84	571218.42	N 32 10 31.78	W 104 14 12.32
	17544.00	90.03	0.16	9461.53	8313.43	8313.30	-715.73	0.48	427688.83	571218.37	N 32 10 32.71	W 104 14 12.32
	17639.00	89.97	0.35	9461.53	8408.43	8408.30	-715.31	0.21	427781.82	571218.79	N 32 10 33.65	W 104 14 12.31
	17734.00	89.59	359.75	9461.89	8503.43	8503.29	-715.22	0.75	427878.81	571218.87	N 32 10 34.59	W 104 14 12.31
	17829.00	89.72	359.75	9462.48	8598.43	8598.29	-715.64	0.14	427971.80	571218.46	N 32 10 35.53	W 104 14 12.31
	17924.00	90.21	359.72	9462.52	8693.43	8693.29	-716.08	0.52	428068.79	571218.02	N 32 10 36.47	W 104 14 12.32
	18019.00	89.66	359.88	9462.63	8788.43	8788.29	-716.41	0.60	428161.78	571217.69	N 32 10 37.41	W 104 14 12.32
	18114.00	89.97	359.78	9462.94	8883.43	8883.29	-716.69	0.34	428256.77	571217.41	N 32 10 38.35	W 104 14 12.32
	18209.00	88.21	358.61	9464.44	8978.40	8978.26	-717.86	2.12	428351.74	571216.24	N 32 10 39.29	W 104 14 12.34
	18304.00	90.62	0.20	9465.41	9073.38	9073.25	-718.68	2.93	428446.71	571215.42	N 32 10 40.23	W 104 14 12.34
	18398.00	89.93	358.82	9464.96	9167.38	9167.24	-719.48	1.64	428540.70	571214.61	N 32 10 41.16	W 104 14 12.35
	18493.00	90.96	359.61	9464.23	9262.36	9262.23	-720.78	1.37	428635.67	571213.31	N 32 10 42.10	W 104 14 12.37
	18588.00	91.58	0.56	9462.12	9357.34	9357.20	-720.64	1.19	428730.64	571213.45	N 32 10 43.04	W 104 14 12.38
	18683.00	89.79	359.60	9460.98	9452.33	9452.19	-720.51	2.14	428825.62	571213.58	N 32 10 43.98	W 104 14 12.38
	18778.00	90.38	359.69	9460.84	9547.32	9547.19	-721.10	0.63	428920.61	571213.00	N 32 10 44.92	W 104 14 12.37
	18872.00	91.65	0.05	9459.18	9641.31	9641.17	-721.31	1.40	429014.58	571212.78	N 32 10 45.85	W 104 14 12.37
	18967.00	91.69	0.84	9456.41	9736.26	9736.13	-720.58	0.83	429109.53	571213.52	N 32 10 46.79	W 104 14 12.38
	19029.00	91.55	0.39	9454.66	9798.23	9798.10	-719.91	0.76	429171.50	571214.19	N 32 10 47.40	W 104 14 12.35
TD, Projection to Bit	19073.00	91.55	0.39	9453.47	9842.22	9842.08	-719.61	0.00	429215.48	571214.48	N 32 10 47.84	W 104 14 12.35

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	26.000	1/98.425	17.500	13.375	NAL_MWD_IFR1+MS-Depth Only	Original Borehole / Cimarex Scoter 6-31 Federal Com 7H MWD Final (Surcon Corrected)
	1	26.000	26.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS-Depth Only	Original Borehole / Cimarex Scoter 6-31 Federal Com 7H MWD Final (Surcon Corrected)
	1	26.000	416.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS	Original Borehole / Cimarex Scoter 6-31 Federal Com 7H MWD Final
	1	416.000	2031.000	Act Stns	12.250	9.625	NAL_MWD_IFR1+MS	Original Borehole / Cimarex Scoter 6-31 Federal Com 7H MWD Final
	1	2031.000	9560.000	Act Stns	8.750	7.000	NAL_MWD_IFR1+MS	Original Borehole / Cimarex Scoter 6-31 Federal Com 7H MWD Final
	1	9560.000	19073.000	Act Stns	6.000	4.500	NAL_MWD_IFR1+MS	Original Borehole / Cimarex Scoter 6-31 Federal Com 7H MWD Final

