

# Survey Report

<b>Report Date:</b> June 15, 2006 <b>Client:</b> LCX Energy LLC. <b>Field:</b> Eddy County, NM Nad 83 <b>Structure / Slot:</b> 1625 Fed Com #211 / 1625 Fed Com #211 <b>Well:</b> 1625 Fed Com #211 <b>Borehole:</b> 1625 Fed Com #211 <b>UWI/API#:</b> <b>Survey Name / Date:</b> 1625 Fed Com #211_surveys / June 5, 2006 <b>Tort / AHD / DDI / ERD ratio:</b> 160.619° / 3961.08 ft / 6.046 / 0.800 <b>Grid Coordinate System:</b> NAD83 New Mexico State Planes, Eastern Zone, US Feet <b>Location Lat/Long:</b> N 32 54 13.529, W 104 29 2.499 <b>Location Grid N/E Y/X:</b> N 692554.500 ftUS, E 495088.100 ftUS <b>Grid Convergence Angle:</b> -0.08186163° <b>Grid Scale Factor:</b> 0.99991154	<b>Survey / DLS Computation Method:</b> Minimum Curvature / Lubinski <b>Vertical Section Azimuth:</b> 270.910° <b>Vertical Section Origin:</b> N 0.000 ft, E 0.000 ft <b>TVD Reference Datum:</b> RKB <b>TVD Reference Elevation:</b> 0.0 ft relative to <b>Sea Bed / Ground Level Elevation:</b> 0.000 ft relative to <b>Magnetic Declination:</b> 8.643° <b>Total Field Strength:</b> 49466.254 nT <b>Magnetic Dip:</b> 60.780° <b>Declination Date:</b> June 05, 2006 <b>Magnetic Declination Model:</b> IGRF 2005 <b>North Reference:</b> Grid North <b>Total Corr Mag North -&gt; Grid North:</b> +8.725° <b>Local Coordinates Referenced To:</b> Well Head
--	---

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
3-in	4274.00	1.16	121.25	4273.71	29.22	4.54	-29.15	29.50	278.86	0.00	110.10M
	4439.00	1.10	110.10	4438.68	26.28	3.13	-26.24	26.42	276.81	0.14	-68.90M
	4470.00	1.40	291.10	4469.68	26.36	3.17	-26.31	26.50	276.87	8.06	-67.50M
	4501.00	5.50	292.50	4500.62	28.10	3.87	-28.04	28.30	277.87	13.23	7.16G
	4533.00	9.90	295.70	4532.32	32.02	5.65	-31.94	32.43	280.04	13.81	5.00G
	4561.00	13.70	297.10	4559.72	37.18	8.21	-37.06	37.96	282.49	13.61	2.99G
	4591.00	17.80	297.80	4588.59	44.46	11.97	-44.28	45.87	285.12	13.68	2.13G
	4621.00	21.80	298.20	4616.81	53.51	16.74	-53.25	55.82	287.45	13.34	-22.98G
	4652.00	25.50	294.60	4645.21	64.74	22.24	-64.39	68.13	289.05	12.81	-64.50G
	4683.00	27.40	286.90	4672.97	77.71	27.09	-77.29	81.90	289.32	12.64	-69.42G
	4714.00	29.20	278.50	4700.27	92.07	30.29	-91.60	96.48	288.30	14.08	-62.68G
	4744.00	31.30	271.40	4726.19	107.12	31.56	-106.64	111.21	286.49	13.82	-5.54G
	4775.00	35.50	270.70	4752.07	124.19	31.87	-123.69	127.73	284.45	13.61	-2.67G
	4804.00	39.60	270.40	4775.06	141.86	32.03	-141.36	144.95	282.77	14.15	-13.17G
	4835.00	42.80	269.30	4798.38	162.27	31.97	-161.78	164.91	281.18	10.58	4.49G
	4866.00	46.50	269.70	4820.43	184.04	31.79	-183.56	186.29	279.82	11.97	0.00G
	4896.00	50.10	269.70	4840.38	206.43	31.67	-205.96	208.38	278.74	12.00	0.00G
	4925.00	53.80	269.70	4858.25	229.26	31.55	-228.79	230.95	277.85	12.76	4.02G
	4955.00	57.40	270.00	4875.20	254.01	31.49	-253.54	255.49	277.08	12.03	5.27G
	4984.00	61.20	270.40	4890.00	278.94	31.58	-278.47	280.25	276.47	13.16	4.20G
	5015.00	64.90	270.70	4904.05	306.56	31.84	-306.10	307.75	275.94	11.97	0.00G
	5046.00	68.80	270.70	4916.23	335.06	32.19	-334.59	336.14	275.50	12.58	0.00G
	5076.00	72.80	270.70	4926.10	363.39	32.54	-362.92	364.37	275.12	13.33	-4.63G
	5106.00	76.40	270.40	4934.06	392.30	32.81	-391.83	393.20	274.79	12.04	11.80G
	5137.00	79.70	271.10	4940.48	422.63	33.21	-422.15	423.46	274.50	10.87	5.67G
	5168.00	82.70	271.40	4945.22	453.26	33.88	-452.78	454.04	274.28	9.72	-15.11G
	5197.00	86.40	270.40	4947.98	482.12	34.33	-481.64	482.86	274.08	13.21	0.00G
	5227.00	90.10	270.40	4948.89	512.10	34.54	-511.62	512.78	273.86	12.33	0.00G
	5259.00	90.40	270.40	4948.75	544.10	34.76	-543.62	544.73	273.66	0.94	-126.87G
	5290.00	90.10	270.00	4948.62	575.10	34.87	-574.62	575.67	273.47	1.61	-56.31G
	5353.00	90.30	269.70	4948.40	638.09	34.71	-637.62	638.56	273.12	0.57	-66.80G
	5416.00	90.60	269.00	4947.90	701.06	33.99	-700.61	701.43	272.78	1.21	-60.25G
	5480.00	91.00	268.30	4947.01	765.00	32.49	-764.58	765.27	272.43	1.26	0.00G
	5541.00	91.00	268.30	4945.95	825.93	30.68	-825.55	826.12	272.13	0.00	180.00G
	5604.00	90.40	268.30	4945.18	888.86	28.81	-888.52	888.98	271.86	0.95	90.00G
	5668.00	90.40	268.60	4944.73	952.80	27.08	-952.49	952.88	271.63	0.47	44.98G
	5731.00	91.80	270.00	4943.52	1015.76	26.31	-1015.47	1015.81	271.48	3.14	180.00G
	5793.00	91.30	270.00	4941.84	1077.73	26.31	-1077.45	1077.77	271.40	0.81	180.00G

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	5856.00	89.20	270.00	4941.57	1140.72	26.31	-1140.44	1140.75	271.32	3.33	-123.70G
	5920.00	89.00	269.70	4942.57	1204.70	26.14	-1204.44	1204.72	271.24	0.56	51.85G
	5983.00	90.10	271.10	4943.07	1267.69	26.58	-1267.43	1267.71	271.20	2.83	-44.99G
	6045.00	91.50	269.70	4942.20	1329.68	27.01	-1329.42	1329.69	271.16	3.19	-156.37G
	6108.00	89.90	269.00	4941.43	1392.65	26.30	-1392.41	1392.66	271.08	2.77	32.47G
	6172.00	91.00	269.70	4940.93	1456.62	25.57	-1456.40	1456.63	271.01	2.04	44.98G
	6235.00	91.70	270.40	4939.45	1519.60	25.63	-1519.38	1519.60	270.97	1.57	-156.04G
	6298.00	90.80	270.00	4938.07	1582.58	25.85	-1582.37	1582.58	270.94	1.56	-163.07G
	6361.00	88.50	269.30	4938.46	1645.56	25.46	-1645.36	1645.56	270.89	3.82	21.45G
	6424.00	91.30	270.40	4938.57	1708.54	25.30	-1708.35	1708.54	270.85	4.78	58.19G
	6487.00	92.60	272.50	4936.42	1771.49	26.89	-1771.29	1771.49	270.87	3.92	119.75G
	6550.00	92.20	273.20	4933.78	1834.40	30.02	-1834.16	1834.40	270.94	1.28	-150.26G
	6614.00	91.50	272.80	4931.72	1898.33	33.37	-1898.04	1898.33	271.01	1.26	54.44G
	6677.00	92.00	273.50	4929.79	1961.25	36.83	-1960.91	1961.26	271.08	1.37	90.00G
	6740.00	92.00	273.90	4927.60	2024.13	40.89	-2023.74	2024.15	271.16	0.63	-141.35G
	6803.00	91.50	273.50	4925.67	2087.03	44.95	-2086.58	2087.06	271.23	1.02	-90.00G
	6866.00	91.50	272.80	4924.02	2149.96	48.41	-2149.46	2150.01	271.29	1.11	-123.69G
	6929.00	91.30	272.50	4922.48	2212.91	51.33	-2212.38	2212.97	271.33	0.57	-44.99G
	6993.00	91.70	272.10	4920.81	2276.87	53.89	-2276.30	2276.94	271.36	0.88	44.97G
	7056.00	92.40	272.80	4918.55	2339.81	56.58	-2339.20	2339.89	271.39	1.57	150.26G
	7119.00	91.70	273.20	4916.30	2402.72	59.88	-2402.08	2402.82	271.43	1.28	180.00G
	7182.00	90.30	273.20	4915.20	2465.66	63.40	-2464.97	2465.78	271.47	2.22	-18.43G
	7245.00	91.50	272.80	4914.21	2528.61	66.69	-2527.87	2528.75	271.51	2.01	0.00G
	7308.00	92.00	272.80	4912.29	2591.55	69.77	-2590.77	2591.71	271.54	0.79	90.00G
	7370.00	92.00	273.50	4910.12	2653.46	73.17	-2652.64	2653.64	271.58	1.13	-127.56G
	7433.00	91.00	272.20	4908.47	2716.40	76.30	-2715.53	2716.61	271.61	2.60	123.68G
	7496.00	89.60	274.30	4908.14	2779.34	79.88	-2778.43	2779.57	271.65	4.01	-38.66G
	7559.00	90.60	273.50	4908.03	2842.26	84.16	-2841.28	2842.53	271.70	2.03	21.24G
	7622.00	92.40	274.20	4906.39	2905.15	88.39	-2904.11	2905.46	271.74	3.07	180.00G
	7685.00	92.20	274.20	4903.86	2968.00	93.00	-2966.89	2968.35	271.80	0.32	75.94G
	7748.00	92.40	275.00	4901.33	3030.81	98.05	-3029.64	3031.22	271.85	1.31	156.81G
	7811.00	91.70	275.30	4899.08	3093.60	103.70	-3092.34	3094.08	271.92	1.21	-125.82G
	7875.00	90.40	273.50	4897.90	3157.47	108.61	-3156.14	3158.01	271.97	3.47	126.87G
	7937.00	90.10	273.90	4897.63	3219.39	112.61	-3218.01	3219.98	272.00	0.81	180.00G
	8000.00	89.70	273.90	4897.74	3282.31	116.89	-3280.86	3282.95	272.04	0.63	180.00G
	8063.00	89.20	273.90	4898.35	3345.22	121.18	-3343.72	3345.91	272.08	0.79	-126.88G
	8126.00	88.90	273.50	4899.39	3408.13	125.24	-3406.57	3408.88	272.11	0.79	29.75G
	8189.00	89.60	273.90	4900.22	3471.05	129.31	-3469.44	3471.85	272.13	1.28	0.00G
	8252.00	91.10	273.90	4899.83	3533.97	133.59	-3532.29	3534.81	272.17	2.38	180.00G
	8315.00	90.60	273.90	4898.90	3596.87	137.88	-3595.14	3597.78	272.20	0.79	0.00G
	8378.00	90.60	273.90	4898.24	3659.78	142.16	-3657.99	3660.75	272.23	0.00	-125.54G
	8441.00	90.10	273.20	4897.85	3722.71	146.06	-3720.86	3723.73	272.25	1.37	180.00G
	8504.00	89.70	273.20	4897.96	3785.66	149.58	-3783.77	3786.72	272.26	0.63	180.00G
	8567.00	89.60	273.20	4898.35	3848.61	153.10	-3846.67	3849.71	272.28	0.16	180.00G
	8598.00	89.20	273.20	4898.67	3879.59	154.83	-3877.62	3880.71	272.29	1.29	0.00G
ected TD	8651.00	89.20	273.20	4899.41	3932.54	157.79	-3930.53	3933.69	272.30	0.00	0.00G