

Results of Directional Survey

API number:	30-025-41367		
OGRID:		Operator:	NEARBURG PRODUCING CO
		Property:	LEA SOUTH 25 FEDERAL COM # 5H

surface	ULSTR:	M	25	T	20S	R	34E
				60	FSL	660	FWL

BH Loc	ULSTR:	D	25	T	20S	R	34E
15823	MD	11251.4	TVD	350	FNL	616	FWL
				4930	FSL		

Top Perf/OH	ULSTR:	M	25	T	20S	R	34E
11230	MD	11124.9	TVD	354	FSL	713	FWL

Bot Perf/OH	ULSTR:	D	25	T	20S	R	34E
15800	MD	11250.5	TVD	373	FNL	616	FWL
				4907	FSL		

	MD	N/S	E/W	VD
	11226	290.03	53.21	11123.28
TOP PERFS/OH	11230	293.71	53.15	11124.85
	11257	318.53	52.77	11135.47
	15749	4796.33	-45.05	11248.48
BOT PERFS/OH	15800	4847.29	-44.39	11250.47
	15823	4870.27	-44.09	11251.37

NEXT TO LAST	15749	4796.33	-45.05	11248.48
LAST READING	15823	4870.27	-44.09	11251.37
TD	15823	4870.27	-44.09	11251.37

Surface Location	60	FS	660	FW
Projected BHL	4930	FS	616	FW
Location of				
Top Perfs/OH	354	FS	713	FW
Bottom Perfs/OH	4907	FS	616	FW

SUMMARY of Subsurface Locations

Surface Location	M-25-20S-34E	60	FS	660	FW	Vert. Depth
Top Perfs/OH	M-25-20S-34E	354	FS	713	FW	11124.85
Bottom Perfs/OH	D-25-20S-34E	4907	FS	616	FW	11250.47
Projected TD	D-25-20S-34E	4930	FS	616	FW	11251.37

MAR 06 2014



Cimarex Lea South 25 Federal Com #5H ST01 MWD 10681ft to 15823ft Survey Report (Def Survey)

PATHFINDER
A Schlumberger Company

Report Date: November 14, 2013 - 11:18 AM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: NorAm 23 / Nearburg Lea South 25 Federal Com #5H
Well: Lea South 25 Federal Com #5H
Borehole: ST01
UWI / API#: Unknown / 30-025-41367-01
Survey Name: Cimarex Lea South 25 Federal Com #5H ST01 MWD 10681ft to 15823ft
Survey Date: November 05, 2013
Tort / AHD / DDI / ERD Ratio: 177.689 ° / 5054.187 ft / 6.101 / 0.449
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 32' 13.23158", W 103° 31' 12.68416"
Location Grid N/E Y/X: N 560050.900 ftUS, E 791925.600 ftUS
CRS Grid Convergence Angle: 0.4374 °
Grid Scale Factor: 0.999981

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.580 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3756.000 ft above MSL
Seabed / Ground Elevation: 3728.000 ft above MSL
Magnetic Declination: 7.399 °
Total Gravity Field Strength: 998.4814mgn (9.80665 Based)
Total Magnetic Field Strength: 48556.578 nT
Magnetic Dip Angle: 60.416 °
Declination Date: November 05, 2013
Magnetic Declination Model: BGGM 2013
North Reference: Grid North
Grid Convergence Used: 0.4374 °
Total Corr Mag North->Grid North: 6.9620 °
Local Coord Referenced To: Structure Reference Point

HOBBS OCD

FEB 20 2014

RECEIVED

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
SHL Lea South 25 Federal Com #5H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	168.78M
	300.00	1.49	168.78	299.97	-3.83	-3.83	0.76	3.90	168.78	0.50	183.29M
	360.00	1.49	183.29	359.95	-5.38	-5.37	0.87	5.44	170.84	0.63	173.57M
	415.65	1.32	173.57	415.58	-6.74	-6.73	0.90	6.79	172.41	0.52	188.78M
	468.83	1.32	188.78	468.75	-7.95	-7.94	0.87	7.99	173.74	0.66	176.65M
	556.79	1.01	176.65	556.69	-9.72	-9.72	0.76	9.75	175.52	0.45	190.67M
	711.09	1.01	190.67	710.96	-12.42	-12.41	0.59	12.43	177.28	0.16	185.18M
	801.69	1.19	185.18	801.55	-14.14	-14.13	0.36	14.14	178.55	0.23	193.09M
	891.90	0.88	193.09	891.74	-15.74	-15.74	0.12	15.74	179.58	0.38	177.66M
	1073.19	0.79	177.66	1073.01	-18.34	-18.35	-0.15	18.35	180.46	0.13	194.45M
	1163.38	0.70	194.45	1163.20	-19.50	-19.50	-0.26	19.50	180.77	0.26	163.07M
	1260.21	0.70	163.07	1260.02	-20.64	-20.64	-0.24	20.64	180.66	0.39	174.06M
	1354.45	0.40	174.06	1354.25	-21.52	-21.52	-0.03	21.52	180.09	0.34	192.87M
	1447.40	0.62	192.87	1447.20	-22.33	-22.33	-0.11	22.33	180.29	0.29	191.77M
	1542.36	0.22	191.77	1542.16	-23.01	-23.01	-0.26	23.01	180.66	0.42	211.19M
	1637.74	0.40	211.19	1637.54	-23.47	-23.47	-0.47	23.48	181.16	0.22	193.79M
	1731.57	0.31	193.79	1731.36	-24.00	-24.00	-0.70	24.01	181.68	0.15	171.38M
	1811.81	0.22	171.38	1811.60	-24.36	-24.36	-0.73	24.38	181.72	0.17	99.79M
	1906.12	0.31	99.79	1905.91	-24.58	-24.59	-0.45	24.59	181.06	0.34	135.17M
	1999.00	0.31	135.17	1998.79	-24.81	-24.81	-0.03	24.81	180.07	0.20	140.26M
	2094.87	0.09	140.26	2094.66	-25.05	-25.05	0.20	25.05	179.54	0.23	134.29M
	2189.14	0.09	134.29	2188.93	-25.16	-25.16	0.30	25.16	179.31	0.01	225.96M
	2284.08	0.09	225.96	2283.87	-25.26	-25.26	0.30	25.26	179.32	0.14	336.79M
	2377.47	0.22	336.79	2377.26	-25.15	-25.15	0.18	25.15	179.59	0.28	6.63M
	2474.23	0.00	6.63	2474.02	-24.98	-24.98	0.10	24.98	179.76	0.23	50.66M
	2568.25	0.31	50.66	2568.04	-24.82	-24.82	0.30	24.82	179.30	0.33	35.67M
	2662.85	0.40	35.67	2662.64	-24.39	-24.39	0.69	24.40	178.38	0.14	350.76M
	2757.10	0.40	350.76	2756.89	-23.80	-23.79	0.83	23.81	178.00	0.32	11.15M
	2851.00	0.70	11.15	2850.78	-22.91	-22.91	0.89	22.92	177.78	0.38	15.68M
	2946.00	0.70	15.68	2945.77	-21.79	-21.78	1.16	21.81	176.96	0.06	31.76M
	3039.00	0.88	31.76	3038.77	-20.64	-20.62	1.69	20.69	175.32	0.31	57.08M
	3135.00	0.88	57.08	3134.75	-19.62	-19.60	2.69	19.78	172.17	0.40	58.48M
	3228.06	1.01	58.48	3227.80	-18.81	-18.78	3.99	19.20	168.00	0.14	52.37M
	3323.91	0.88	52.37	3323.64	-17.93	-17.89	5.30	18.66	163.51	0.17	52.07M
	3418.35	1.01	52.07	3418.07	-16.98	-16.93	6.53	18.15	158.92	0.14	54.57M
	3512.24	1.10	54.57	3511.94	-15.96	-15.90	7.91	17.76	153.54	0.11	60.77M
	3606.00	1.32	60.77	3605.68	-14.92	-14.85	9.59	17.68	147.15	0.27	57.69M
	3700.33	1.49	57.69	3699.98	-13.75	-13.67	11.57	17.91	139.74	0.20	49.08M
	3794.14	1.19	49.08	3793.77	-12.48	-12.38	13.34	18.20	132.86	0.38	21.26M
	3890.48	1.71	21.26	3890.08	-10.49	-10.38	14.62	17.93	125.39	0.89	57.56M
	3983.93	1.58	57.56	3983.49	-8.51	-8.39	16.21	18.26	117.37	1.10	46.88M
	4077.82	1.49	46.88	4077.35	-7.00	-6.86	18.20	19.45	110.67	0.32	48.55M
	4269.61	1.58	48.55	4269.07	-3.57	-3.41	22.00	22.26	98.81	0.05	55.19M
	4361.38	1.80	55.19	4360.80	-1.93	-1.75	24.13	24.19	94.15	0.32	55.19M
	4456.12	3.21	55.19	4455.44	0.41	0.61	27.53	27.54	88.72	1.49	51.98M
	4740.38	2.11	51.98	4739.39	8.10	8.38	38.19	39.09	77.62	0.39	48.37M
	4834.33	2.02	48.37	4833.28	10.25	10.55	40.79	42.13	75.50	0.17	48.37M
	4928.75	2.20	48.37	4927.64	12.54	12.86	43.38	45.25	73.49	0.19	50.88M
	5022.99	2.02	50.88	5021.81	14.77	15.11	46.02	48.44	71.83	0.21	54.09M
	5307.00	2.29	54.09	5305.62	21.19	21.59	54.50	58.62	68.39	0.10	52.15M
	5401.00	2.11	52.15	5399.55	23.33	23.75	57.39	62.11	67.52	0.21	58.35M
	5494.93	2.29	58.35	5493.42	25.36	25.80	60.35	65.64	66.85	0.32	54.57M
	5588.84	2.50	54.57	5587.24	27.51	27.97	63.62	69.50	66.27	0.28	57.38M
	5673.22	2.42	57.38	5671.55	29.51	30.00	66.62	73.06	65.76	0.17	58.17M
	5765.00	2.50	58.17	5763.24	31.59	32.10	69.95	76.97	65.35	0.09	57.56M

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	5862.24	2.29	57.56	5860.40	33.72	34.26	73.39	81.00	64.98	0.22	62.17M
	5957.00	2.42	62.17	5955.08	35.65	36.21	76.76	84.87	64.75	0.24	63.67M
	6052.00	2.50	63.67	6049.99	37.47	38.06	80.39	88.95	64.66	0.11	68.59M
	6146.33	2.68	68.59	6144.22	39.16	39.78	84.29	93.21	64.73	0.30	78.08M
	6240.17	2.11	78.08	6237.98	40.29	40.94	88.02	97.08	65.06	0.74	89.46M
	6334.04	1.41	89.46	6331.81	40.64	41.31	90.87	99.82	65.55	0.83	160.17M
	6428.33	0.48	160.17	6426.08	40.27	40.95	92.16	100.85	66.04	1.41	197.17M
	6522.59	0.48	197.17	6520.34	39.52	40.20	92.18	100.56	66.44	0.32	180.96M
	6617.76	0.79	180.96	6615.50	38.49	39.16	92.05	100.03	66.95	0.37	200.16M
	6711.00	0.88	200.16	6708.74	37.17	37.85	91.79	99.29	67.59	0.31	182.58M
	6805.00	0.88	182.58	6802.72	35.78	36.45	91.51	98.50	68.28	0.29	194.67M
	6900.71	0.62	194.67	6898.43	34.54	35.21	91.35	97.90	68.92	0.32	169.58M
	6994.82	0.88	169.58	6992.53	33.34	34.01	91.35	97.47	69.58	0.44	188.47M
	7089.26	0.79	188.47	7086.96	31.98	32.65	91.38	97.04	70.34	0.31	190.45M
	7184.87	0.79	190.45	7182.56	30.68	31.35	91.17	96.41	71.02	0.03	211.46M
	7279.30	0.88	211.46	7276.98	29.43	30.09	90.67	95.53	71.64	0.34	210.97M
	7372.41	0.70	210.97	7370.08	28.34	29.00	90.01	94.56	72.14	0.19	205.26M
	7468.00	1.32	205.26	7465.66	26.84	27.50	89.24	93.38	72.87	0.66	224.55M
	7562.74	1.10	224.55	7560.37	25.22	25.86	88.13	91.85	73.64	0.49	226.75M
	7656.15	1.01	226.75	7653.77	24.02	24.66	86.90	90.33	74.16	0.11	217.87M
	7749.51	1.10	217.87	7747.11	22.76	23.39	85.75	88.89	74.74	0.20	223.67M
	7843.43	1.10	223.67	7841.02	21.41	22.03	84.58	87.40	75.40	0.12	250.57M
	7937.82	1.01	250.57	7935.39	20.48	21.09	83.17	85.80	75.77	0.53	250.65M
	8033.57	1.01	250.65	8031.13	19.94	20.53	81.58	84.12	75.87	0.00	257.29M
	8127.79	1.19	257.29	8125.33	19.46	20.04	79.84	82.32	75.91	0.23	242.09M
	8221.08	1.01	242.09	8218.60	18.87	19.45	78.17	80.55	76.03	0.37	260.59M
	8316.12	1.41	260.59	8313.62	18.30	18.86	76.27	78.57	76.11	0.58	258.56M
	8410.23	1.80	258.56	8407.69	17.84	18.38	73.68	75.94	75.99	0.42	263.49M
	8503.55	1.58	263.49	8500.97	17.42	17.94	70.97	73.20	75.81	0.28	267.35M
	8597.42	1.41	267.35	8594.81	17.24	17.74	68.53	70.79	75.48	0.21	271.26M
	8691.60	1.49	271.26	8688.96	17.23	17.72	66.15	68.48	75.01	0.14	260.28M
	8784.99	1.41	260.28	8782.32	17.08	17.55	63.80	66.17	74.62	0.31	276.89M
	8878.61	1.01	276.89	8875.92	17.00	17.45	61.84	64.26	74.24	0.56	253.77M
	8973.54	0.48	253.77	8970.84	17.00	17.44	60.63	63.09	73.95	0.63	174.37M
	9071.87	0.09	174.37	9069.17	16.81	17.25	60.24	62.67	74.02	0.48	31.76M
	9165.87	0.62	31.76	9163.17	17.17	17.61	60.52	63.03	73.78	0.74	42.09M
	9260.64	0.88	42.09	9257.93	18.14	18.59	61.28	64.03	73.13	0.31	26.97M
	9354.10	1.01	26.97	9351.38	19.40	19.85	62.13	65.23	72.28	0.30	1.57M
	9446.83	1.10	1.57	9444.09	21.01	21.47	62.53	66.11	71.05	0.51	344.57M
	9543.42	0.79	344.57	9540.67	22.58	23.04	62.37	66.49	69.73	0.43	351.95M
	9638.34	1.10	351.95	9635.58	24.12	24.57	62.07	66.76	68.40	0.35	351.46M
	9732.07	1.32	351.46	9729.29	26.08	26.53	61.79	67.24	66.76	0.23	356.17M
	9826.12	1.41	356.17	9823.31	28.31	28.76	61.55	67.94	64.96	0.15	5.67M
	9920.43	1.32	5.67	9917.59	30.54	31.00	61.58	68.94	63.28	0.26	333.05M
	10014.10	1.10	333.05	10011.24	32.42	32.87	61.28	69.54	61.79	0.76	6.67M
	10110.57	0.00	6.67	10107.71	33.25	33.70	60.86	69.56	61.03	1.14	5.35M
	10205.14	1.10	5.35	10202.27	34.15	34.60	60.94	70.08	60.41	1.16	6.67M
	10299.07	0.00	6.67	10296.19	35.05	35.50	61.03	70.60	59.81	1.17	267.57M
	10399.23	0.79	267.57	10396.35	35.03	35.47	60.34	69.99	59.55	0.79	209.48M
	10493.45	1.19	209.48	10490.56	34.15	34.59	59.21	68.57	59.71	1.09	210.27M
Tie-In to Pilot	10587.39	0.79	210.27	10584.49	32.75	33.18	58.40	67.17	60.40	0.43	104.46M
	10680.90	0.22	104.46	10677.99	32.15	32.58	58.25	66.74	60.78	0.94	355.96M
	10755.00	6.84	355.96	10751.92	36.52	36.95	58.08	68.83	57.53	9.33	350.65M
	10786.00	10.49	350.65	10782.56	41.16	41.58	57.49	70.95	54.12	12.04	11.68L
	10817.00	13.78	347.81	10812.86	47.56	47.97	56.25	73.93	49.54	10.78	3.92L
	10849.00	16.42	347.17	10843.76	55.71	56.11	54.44	78.18	44.13	8.27	27.5R
	10880.00	18.90	351.09	10873.29	64.96	65.34	52.69	83.94	38.88	8.87	17.12R
	10911.00	22.90	354.23	10902.25	75.93	76.31	51.30	91.95	33.91	13.40	16.38R
	10943.00	27.62	357.20	10931.18	89.55	89.92	50.31	103.04	29.23	15.27	25.98R
	10974.00	31.23	0.55	10958.18	104.77	105.14	50.04	116.44	25.45	12.79	18.72R
	11006.00	34.86	2.69	10985.00	122.20	122.58	50.55	132.59	22.41	11.91	6.49R
	11037.00	39.02	3.44	11009.77	140.79	141.18	51.55	150.29	20.06	13.50	3.06L
	11069.00	43.40	3.10	11033.84	161.83	162.22	52.75	170.58	18.01	13.71	8.28L
	11100.00	48.28	2.15	11055.43	184.03	184.43	53.76	192.10	16.25	15.89	16.46L
	11131.00	53.03	0.40	11075.08	207.98	208.39	54.28	215.34	14.60	15.93	13.39L
	11163.00	57.62	359.11	11093.28	234.29	234.70	54.16	240.86	12.99	14.72	0.88L
	11194.00	61.62	359.04	11108.95	261.03	261.43	53.73	266.89	11.61	12.90	2.49L
	11226.00	65.17	358.87	11123.28	289.63	290.03	53.21	294.87	10.40	11.10	7.94R
	11257.00	68.51	359.37	11135.47	318.13	318.53	52.77	322.87	9.41	10.88	12.26R
	11289.00	71.17	359.98	11146.50	348.17	348.56	52.60	352.51	8.58	8.50	9.49L
	11320.00	73.06	359.65	11156.02	377.67	378.06	52.51	381.69	7.91	6.18	74.78R
	11351.00	73.27	0.45	11165.00	407.34	407.73	52.53	411.10	7.34	2.56	12.16R
	11383.00	75.29	0.90	11173.67	438.13	438.53	52.90	441.71	6.88	6.46	15.58L
	11414.00	77.32	0.32	11181.01	468.25	468.65	53.22	471.66	6.48	6.80	1.79L
	11446.00	79.52	0.25	11187.43	499.59	500.00	53.37	502.84	6.09	6.88	4.79L
	11477.00	80.58	0.16	11192.79	530.12	530.53	53.48	533.22	5.76	3.43	1.02R
	11509.00	83.38	0.21	11197.25	561.80	562.21	53.58	564.76	5.44	8.75	9.91L
	11540.00	86.18	359.72	11200.07	592.67	593.08	53.56	595.49	5.16	9.17	15.65R
	11572.00	89.86	0.75	11201.18	624.64	625.06	53.70	627.36	4.91	11.94	7.19R
	11603.00	93.03	1.15	11200.40	655.62	656.04	54.21	658.27	4.72	10.31	7.36L
	11635.00	93.88	1.04	11198.47	687.55	687.97	54.82	690.15	4.56	2.68	144.7L

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	11756.00	92.44	0.02	11191.80	808.35	808.78	55.94	810.71	3.96	1.46	163.6L
	11851.00	89.72	359.22	11190.01	903.32	903.75	55.31	905.44	3.50	2.98	98.62L
	11945.00	89.62	358.56	11190.55	997.31	997.73	53.48	999.16	3.07	0.71	80.31L
	12040.00	89.69	358.15	11191.12	1092.29	1092.69	50.76	1093.87	2.66	0.44	11.84L
	12134.00	90.31	358.02	11191.12	1186.26	1186.64	47.62	1187.59	2.30	0.67	28.44L
	12228.00	90.79	357.76	11190.22	1280.21	1280.57	44.16	1281.33	1.97	0.58	39.86L
	12322.00	91.58	357.10	11188.27	1374.12	1374.45	39.94	1375.03	1.66	1.10	3.01L
	12417.00	91.96	357.08	11185.34	1468.99	1469.28	35.12	1469.70	1.37	0.40	72.34L
	12511.00	92.03	356.86	11182.07	1562.83	1563.10	30.16	1563.39	1.11	0.25	85.7L
	12605.00	92.06	356.46	11178.71	1656.65	1656.88	24.68	1657.06	0.85	0.43	129.82R
	12699.00	91.96	356.58	11175.42	1750.46	1750.64	18.98	1750.75	0.62	0.17	65.68R
	12794.00	92.10	356.89	11172.05	1845.28	1845.43	13.57	1845.48	0.42	0.36	90R
	12888.00	92.10	357.45	11168.61	1939.14	1939.25	8.94	1939.27	0.26	0.60	150.27R
	12982.00	91.96	357.53	11165.28	2033.01	2033.10	4.82	2033.11	0.14	0.17	168.53R
	13076.00	91.27	357.67	11162.63	2126.92	2126.98	0.89	2126.98	0.02	0.75	136.91R
	13171.00	90.96	357.96	11160.78	2221.86	2221.90	-2.73	2221.90	359.93	0.45	149.75L
	13265.00	90.72	357.82	11159.40	2315.81	2315.82	-6.20	2315.83	359.85	0.30	144.51L
	13360.00	88.21	356.03	11160.29	2410.69	2410.67	-11.29	2410.70	359.73	3.25	139.33R
	13454.00	87.28	356.83	11163.99	2504.47	2504.41	-17.14	2504.47	359.61	1.30	62.29R
	13549.00	87.49	357.23	11168.32	2599.28	2599.19	-22.06	2599.28	359.51	0.48	96.58R
	13643.00	87.35	358.45	11172.55	2693.14	2693.02	-25.60	2693.14	359.46	1.31	90R
	13737.00	87.35	359.46	11176.90	2787.03	2786.91	-27.31	2787.04	359.44	1.07	59.6R
	13832.00	87.52	359.75	11181.15	2881.94	2881.81	-27.96	2881.94	359.44	0.35	66.16R
	13926.00	87.90	0.61	11184.91	2975.85	2975.73	-27.67	2975.86	359.47	1.00	57.52R
	14021.00	88.04	0.83	11188.27	3070.78	3070.66	-26.47	3070.78	359.51	0.27	168.24L
	14115.00	87.56	0.73	11191.88	3164.69	3164.59	-25.20	3164.69	359.54	0.52	135.06L
	14210.00	86.70	359.87	11196.64	3259.56	3259.46	-24.70	3259.56	359.57	1.28	133.27R
	14304.00	86.39	0.20	11202.30	3353.38	3353.29	-24.64	3353.38	359.58	0.48	59.58L
	14398.00	86.56	359.91	11208.08	3447.20	3447.11	-24.55	3447.20	359.59	0.36	54.95R
	14493.00	87.76	1.62	11212.79	3542.06	3541.98	-23.28	3542.06	359.62	2.20	22.03R
	14587.00	89.07	2.15	11215.39	3635.95	3635.89	-20.19	3635.95	359.68	1.50	40.89R
	14681.00	90.41	3.31	11215.81	3729.80	3729.78	-15.72	3729.82	359.76	1.89	108.85L
	14775.00	89.42	0.41	11215.95	3823.71	3823.72	-12.66	3823.74	359.81	3.26	94.87L
	14870.00	89.24	358.29	11217.07	3918.70	3918.70	-13.74	3918.73	359.80	2.24	114.19L
	14964.00	88.45	356.53	11218.96	4012.61	4012.58	-17.99	4012.63	359.74	2.05	145.22L
	15058.00	87.63	355.96	11222.17	4106.39	4106.33	-24.14	4106.40	359.66	1.06	64.15R
	15153.00	87.94	356.60	11225.85	4201.16	4201.06	-30.30	4201.16	359.59	0.75	104.73R
	15247.00	87.73	357.40	11229.40	4295.00	4294.86	-35.22	4295.00	359.53	0.88	82.57R
	15342.00	87.76	357.63	11233.14	4389.87	4389.70	-39.33	4389.87	359.49	0.24	80.55R
	15436.00	87.90	358.47	11236.70	4483.76	4483.57	-42.53	4483.77	359.46	0.91	90R
	15531.00	87.90	359.47	11240.18	4578.69	4578.49	-44.23	4578.71	359.45	1.05	176.64R
	15625.00	87.73	359.48	11243.76	4672.63	4672.42	-45.10	4672.64	359.45	0.18	77.71R
	15719.00	87.90	0.26	11247.34	4766.56	4766.35	-45.31	4766.57	359.46	0.85	108.28R
Final survey	15749.00	87.76	0.74	11248.48	4796.53	4796.33	-45.05	4796.54	359.46	1.67	HS
Projection to TD	15823.00	87.76	0.74	11251.37	4870.46	4870.27	-44.09	4870.47	359.48	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_MWD-POOR-Depth Only	Pilot Borehole / Lea South 25 Federal Com #5H Pilot
	28.000	10680.900	Act Stns	30.000	30.000	SLB_MWD-POOR	Pilot Borehole / Lea South 25 Federal Com #5H Pilot
	10680.900	15749.000	Act Stns	30.000	30.000	SLB_MWD-STD	ST01 / Cimarex Lea South 25 Federal Com #5H ST01 MWD
	15749.000	15823.000	Act Stns	30.000	30.000	SLB_BLIND+TREND	ST01 / Cimarex Lea South 25 Federal Com #5H ST01 MWD