



SURVEY CALCULATION PROGRAM

30-015-43628

Minimum Curvature

File:

OPERATOR: Limerock Resources										Target Information				VS Referenced to Offset from Surface				
WELL: Choate Davis 14 State SWD Well No. 2										TARGET KBTVD:		6296.09		NORTH/SOUTH:		3.84		
LOCATION: Eddy County										TARGET INCL:		5.26		EAST/WEST:		5.81		
RIG: United 47										TARGET AZM:		278.57		(Enter 0' N and 0' E for Surface)				
JOB NUMBER: TX-17012																		
SURVEY COMPANY					DIRECTIONAL COMPANY					PROPOSED DIRECTION:			Dec / Total Corr.(+/-):					
Accel Directional					Accel Directional					COMMENTS:								
Directional Drillers					COORDINATORS					API 30-015-43628								
Allen Hightower					Chris Shipp													
Donnie Leone																		
Limerock Resources					Choate Davis 14 State SWD Well No. 2									Target Calculations				
SVY	MD	INC	TRUE AZM	TEMP °F	API Gamma	Course Length	TVD	N-S	E-W	Surface Vert Sect	CLOSURE DIST	DIR	DLS/ 100	BUR/ 100'	TVD AT 0' V. SEC.	ABOVE (+) BELOW (-)	RIGHT(+) LEFT(-)	
TIE IN	5,600	3.4	252.7			N/A	5598.62	-3.59	63.19	-3.59	63.29	93.25	N/A	N/A	5637.61	658.48	1.20	
1	5,796	3.7	277.2			196	5794.26	-4.51	51.41	-4.51	51.61	95.01	0.78	0.17	5843.24	452.85	-1.46	
2	5,987	4.7	281.8			191	5984.74	-2.14	37.64	-2.14	37.70	93.25	0.55	0.52	6007.95	288.14	-1.17	
3	6,082	6.0	279.4			95	6079.33	-0.53	28.93	-0.53	28.94	91.05	1.39	1.37	6085.08	211.01	-0.88	
4	6,178	6.0	279.4			96	6174.80	1.11	19.03	1.11	19.06	86.67	0.00	0.00	6162.76	133.33	-0.73	
5	6,242	6.1	280.0			64	6238.45	2.25	12.38	2.25	12.58	79.72	0.18	0.16	6214.05	82.04	-0.60	
6	6,274	6.2	278.7			32	6270.26	2.80	9.00	2.80	9.43	72.71	0.54	0.31	6239.82	56.27	-0.55	
7	6,305	5.6	276.5			31	6301.10	3.23	5.84	3.23	6.67	61.09	2.07	-1.94	6266.05	30.04	-0.60	
8	6,337	4.7	270.7			32	6332.97	3.42	2.98	3.42	4.54	41.07	3.25	-2.81	6295.82	0.27	-0.84	
9	6,369	4.5	262.3			32	6364.86	3.27	0.43	3.27	3.29	7.42	2.19	-0.63	6329.37	-33.28	-1.37	
10	6,401	4.5	261.9			32	6396.77	2.92	-2.06	2.92	3.58	324.80	0.10	0.00	6365.02	-68.93	-2.08	
11	6,434	4.4	261.9			33	6429.67	2.56	-4.60	2.56	5.26	299.13	0.30	-0.30	6401.84	-105.75	-2.81	
12	6,466	3.7	264.1			32	6461.59	2.28	-6.84	2.28	7.21	288.46	2.24	-2.19	6436.79	-140.70	-3.43	
13	6,498	3.5	267.4			32	6493.52	2.13	-8.84	2.13	9.09	283.56	0.90	-0.63	6470.37	-174.28	-3.87	
14	6,529	3.4	267.2			31	6524.47	2.04	-10.70	2.04	10.90	280.81	0.32	-0.32	6502.26	-206.17	-4.24	
15	6,562	3.2	268.5			33	6557.41	1.97	-12.60	1.97	12.76	278.89	0.65	-0.61	6535.99	-239.90	-4.59	
16	6,593	3.3	274.9			31	6588.36	2.03	-14.36	2.03	14.50	278.03	1.21	0.32	6566.36	-270.27	-4.80	
17	6,626	3.6	277.2			33	6621.30	2.24	-16.33	2.24	16.48	277.80	1.00	0.91	6597.01	-300.92	-4.88	
18	6,670	4.5	282.5			44	6665.19	2.78	-19.39	2.78	19.59	278.17	2.21	2.05	6634.96	-338.87	-4.80	
19	6,702	4.0	283.8			32	6697.10	3.32	-21.70	3.32	21.95	278.70	1.59	-1.56	6661.03	-364.94	-4.61	