

Results of Directional Survey

API number:	30-025-38587		
OGRID:		Operator:	CIMAREX ENERGY CO
		Property:	MAROON 24 FEE # 1

surface	ULSTR:	E	24	T 15S	R 37E
			2210 FNL	430 FWL	

BH Loc	ULSTR:	D	24	T 15S	R 37E
			350 FNL	429 FWL	

	MD	N/S	E/W	VD
TOP PERFS/OH	9094	#DIV/0!	#DIV/0!	#DIV/0!
	11023	1795.17	-5.20	9392.93
BOT PERFS/OH	11088	1860.02	-1.18	9391.06
	11049	1821.11	-3.59	9392.18

NEXT TO LAST	11023	1795.17	-5.20	9392.93
LAST READING	11049	1821.11	-3.59	9392.18
TD	11088	1860.02	-1.18	9391.06

Surface Location	2210 FN	430 FW
Projected BHL	350 FN	429 FW
Location of		
Top Perfs/OH	#DIV/0!	#DIV/0!
Bottom Perfs/OH	350 FN	429 FW

SUMMARY of Subsurface Locations

Surface Location	E-24-15S-37E	2210 FN	430 FW	Vert. Depth
Top Perfs/OH	E-24-15S-37E	#DIV/0!	#DIV/0!	#DIV/0!
Bottom Perfs/OH	D-24-15S-37E	350 FN	429 FW	9391.06
Projected TD	D-24-15S-37E	350 FN	429 FW	9391.06

SUR: E-24-15s-37e, 2210/N & 430/W
 BHL: D-24-15s-37e, 350/N & 429/W
 API # 30-025-38587



Client : Cimarex Energy Company
 Well : Maroon 24 Fee #1
 Location : Lea County, New Mexico
 License :

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 Date : 2/7/2008
 File : 4013592 S

UWI #:

Vertical Section Calculated Along Azimuth 359.95°										
KB Elevation = 3795.00ft					GR. Elevation = 3774.00ft					
	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
0	9193.00	2.31	289.31	9190.98	86.89	-93.16	86.97	0.00	0.00	0.00
1	9239.00	15.40	1.90	9236.39	93.34	-93.84	93.42	32.32	28.46	157.80
2	9254.00	20.20	3.30	9250.67	97.92	-93.62	98.00	32.12	32.00	9.33
3	9270.00	26.30	2.80	9265.36	104.22	-93.29	104.30	38.14	38.12	-3.12
4	9285.00	31.00	3.60	9278.52	111.40	-92.88	111.48	31.44	31.33	5.33
5	9302.00	35.40	2.00	9292.74	120.69	-92.44	120.77	26.39	25.88	-9.41
6	9318.00	38.30	5.20	9305.55	130.27	-91.83	130.35	21.73	18.13	20.00
7	9333.00	40.40	4.30	9317.15	139.74	-91.04	139.82	14.51	14.00	-6.00
8	9364.00	45.50	6.30	9339.83	160.76	-89.07	160.84	17.03	16.45	6.45
9	9394.00	54.20	9.30	9359.16	183.45	-85.92	183.53	29.98	29.00	10.00
10	9424.00	62.90	2.00	9374.81	208.88	-83.49	208.95	35.64	29.00	-24.33
11	9454.00	68.80	354.10	9387.10	236.19	-84.46	236.27	31.04	19.67	-26.33
12	9484.00	71.10	354.80	9397.38	264.24	-87.18	264.32	7.97	7.67	2.33
13	9516.00	72.60	358.20	9407.35	294.58	-89.04	294.66	11.13	4.69	10.62
14	9548.00	75.40	359.90	9416.17	325.34	-89.54	325.41	10.13	8.75	5.31
15	9579.00	78.20	1.40	9423.25	355.51	-89.20	355.59	10.19	9.03	4.84
16	9610.00	81.30	2.60	9428.76	385.99	-88.13	386.07	10.70	10.00	3.87
17	9642.00	84.60	3.60	9432.69	417.70	-86.41	417.78	10.77	10.31	3.13
18	9673.00	88.50	4.00	9434.56	448.57	-84.36	448.64	12.65	12.58	1.29
19	9704.00	91.40	5.00	9434.58	479.47	-81.93	479.54	9.90	9.35	3.23
20	9735.00	92.10	6.10	9433.64	510.31	-78.93	510.38	4.20	2.26	3.55
21	9767.00	92.10	6.40	9432.46	542.10	-75.45	542.16	0.94	0.00	0.94
22	9798.00	92.70	4.70	9431.17	572.93	-72.46	572.99	5.81	1.94	-5.48
23	9829.00	92.80	2.80	9429.68	603.82	-70.43	603.88	6.13	0.32	-6.13
24	9859.00	93.00	2.60	9428.16	633.75	-69.02	633.81	0.94	0.67	-0.67
25	9891.00	93.20	2.90	9426.43	665.67	-67.49	665.73	1.13	0.63	0.94
26	9922.00	93.50	2.40	9424.62	696.58	-66.06	696.64	1.88	0.97	-1.61
27	9953.00	93.90	2.60	9422.62	727.49	-64.71	727.54	1.44	1.29	0.65
28	9985.00	92.20	2.40	9420.92	759.41	-63.31	759.46	5.35	-5.31	-0.62
29	10016.00	92.50	2.00	9419.64	790.36	-62.13	790.41	1.61	0.97	-1.29
30	10046.00	93.10	1.50	9418.18	820.31	-61.21	820.36	2.60	2.00	-1.67
31	10078.00	92.20	2.90	9416.70	852.25	-59.98	852.30	5.20	-2.81	4.38
32	10109.00	92.50	2.60	9415.43	883.19	-58.50	883.24	1.37	0.97	-0.97
33	10141.00	92.90	2.90	9413.92	915.12	-56.96	915.17	1.56	1.25	0.94
34	10172.00	93.30	2.20	9412.24	946.04	-55.59	946.09	2.60	1.29	-2.26
35	10204.00	91.70	2.80	9410.85	977.98	-54.19	978.03	5.34	-5.00	1.88

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Vertical Section Calculated Along Azimuth 359.95°										
KB Elevation = 3795.00ft					GR. Elevation = 3774.00ft					
	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
36	10236.00	91.70	2.60	9409.90	1009.93	-52.68	1009.97	0.62	0.00	-0.63
37	10267.00	92.20	2.60	9408.84	1040.88	-51.28	1040.92	1.61	1.61	0.00
38	10299.00	92.30	2.20	9407.59	1072.83	-49.94	1072.87	1.29	0.31	-1.25
39	10331.00	92.50	2.20	9406.25	1104.77	-48.71	1104.82	0.62	0.62	0.00
40	10362.00	92.10	3.60	9405.00	1135.71	-47.15	1135.75	4.69	-1.29	4.52
41	10394.00	90.80	4.50	9404.19	1167.62	-44.89	1167.66	4.94	-4.06	2.81
42	10425.00	89.80	3.80	9404.03	1198.54	-42.64	1198.57	3.94	-3.23	-2.26
43	10457.00	89.90	4.00	9404.12	1230.46	-40.47	1230.50	0.70	0.31	0.63
44	10488.00	89.80	4.30	9404.20	1261.38	-38.22	1261.41	1.02	-0.32	0.97
45	10520.00	89.90	4.20	9404.28	1293.29	-35.85	1293.32	0.44	0.31	-0.31
46	10553.00	91.00	3.80	9404.02	1326.21	-33.55	1326.24	3.55	3.33	-1.21
47	10583.00	91.00	3.60	9403.50	1356.14	-31.61	1356.17	0.67	0.00	-0.67
48	10615.00	91.30	4.20	9402.86	1388.06	-29.44	1388.09	2.10	0.94	1.88
49	10647.00	91.80	3.50	9401.99	1419.98	-27.29	1420.00	2.69	1.56	-2.19
50	10678.00	92.50	4.00	9400.83	1450.89	-25.26	1450.91	2.77	2.26	1.61
51	10710.00	92.90	3.80	9399.32	1482.78	-23.09	1482.80	1.40	1.25	-0.63
52	10741.00	91.10	3.30	9398.24	1513.70	-21.17	1513.72	6.03	-5.81	-1.61
53	10772.00	91.30	3.30	9397.59	1544.64	-19.39	1544.66	0.65	0.65	0.00
54	10804.00	91.70	3.30	9396.75	1576.58	-17.55	1576.59	1.25	1.25	0.00
55	10835.00	92.20	3.30	9395.70	1607.51	-15.76	1607.52	1.61	1.61	0.00
56	10866.00	92.00	3.80	9394.56	1638.43	-13.84	1638.44	1.74	-0.65	1.61
57	10897.00	90.70	3.10	9393.83	1669.36	-11.98	1669.37	4.76	-4.19	-2.26
58	10928.00	90.00	2.80	9393.64	1700.32	-10.38	1700.33	2.46	-2.26	-0.97
59	10960.00	90.20	2.90	9393.58	1732.28	-8.79	1732.29	0.70	0.62	0.31
60	10992.00	90.40	3.30	9393.42	1764.23	-7.06	1764.24	1.40	0.62	1.25
61	11023.00	91.40	3.60	9392.93	1795.17	-5.20	1795.18	3.37	3.23	0.97
62	11049.00	91.90	3.50	9392.18	1821.11	-3.59	1821.11	1.96	1.92	-0.38
EXT	11088.00	91.90	3.50	9390.89	1860.02	-1.21	1860.02	0.00	0.00	0.00

Bottom Hole Closure 1860.02ft Along Azimuth 359.96°