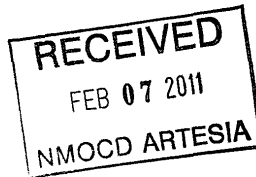


30-015-37284



Job Number: SVCO-100626
 Company: Marbob Energy, Inc.
 Lease/Well: Noose Federal Com. 8H
 Location: Eddy County, NM
 Rig Name: Cavaloz Drilling #1
 RKB: 12'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 8.30°
 Grid: East To Grid
 File name: F:\SURVEY\2010SU-1\MARBOBINOOSE8H.SVY
 Date/Time: 26-Jul-10 / 10:20
 Curve Name: Surface - 2100' M.D. (Gyroscopic)



WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 183.59
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 2100' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Dana Ruttle 7/26/10
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	1.50	44.09	99.99	.94	.91	-1.00	1.31	44.09	1.50
200.00	1.75	44.24	199.95	2.97	2.89	-3.15	4.14	44.15	.25
300.00	2.25	45.38	299.89	5.45	5.35	-5.77	7.63	44.48	.50
400.00	2.25	37.54	399.81	8.38	7.94	-8.86	11.55	43.46	.31
500.00	2.75	36.68	499.71	11.86	10.57	-12.50	15.89	41.71	.50
600.00	2.50	39.84	599.61	15.46	13.40	-16.27	20.46	40.92	.29
700.00	2.50	38.99	699.51	18.83	16.17	-19.81	24.82	40.65	.04
800.00	2.25	38.14	799.43	22.07	18.76	-23.20	28.96	40.36	.25
900.00	2.00	36.30	899.36	25.02	21.00	-26.29	32.67	40.01	.26

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1000.00	1.50	28.46	999.31	27.58	22.66	-28.94	35.69	39.41	.55
1100.00	1.75	22.99	1099.27	30.13	23.88	-31.57	38.45	38.39	.29
1200.00	1.50	20.14	1199.23	32.77	24.93	-34.26	41.17	37.26	.26
1300.00	1.50	14.30	1299.20	35.27	25.70	-36.81	43.64	36.08	.15
1400.00	1.50	14.45	1399.16	37.80	26.35	-39.38	46.08	34.88	.00
1500.00	1.50	7.60	1499.13	40.37	26.85	-41.97	48.48	33.63	.18
1600.00	1.25	359.76	1599.10	42.75	27.02	-44.36	50.57	32.29	.31
1700.00	1.50	354.91	1699.07	45.15	26.90	-46.74	52.55	30.78	.28
1800.00	1.75	9.06	1799.03	47.96	27.02	-49.56	55.05	29.40	.47
1900.00	1.00	26.21	1899.00	50.25	27.65	-51.88	57.35	28.82	.85
2000.00	1.25	29.36	1998.98	51.98	28.57	-53.67	59.32	28.79	.26
Last Survey Depth Recorded									
2100.00	1.50	33.51	2098.95	54.03	29.82	-55.79	61.71	28.90	.27

PATHFINDER

Job Number: 101011050
 Company: Marbob
 Lease/Well: Noose Fed #8
 Location: Eddy County
 Rig Name: Cavaloz #1
 RKB: 12
 G.L. or M.S.L.:

State/Country: New Mexico
 Declination: 8.11
 Grid: .07
 File name: C:\AJOB\PATH-J-112010\MARBOB-1\NOOSEF-1.SVY
 Date/Time: 30-Jul-10 / 14:52
 Curve Name: Working Curve

Pathfinder

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 183.57
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
Gyro Tie In									
2100.00	1.50	33.51	2098.96	54.03	29.82	-55.78	61.71	28.89	.00
2162.00	1.58	33.24	2160.94	55.42	30.74	-57.23	63.37	29.01	.13
2193.00	.88	83.16	2191.93	55.81	31.21	-57.64	63.94	29.21	3.92
2225.00	3.87	164.11	2223.90	54.80	31.75	-56.67	63.33	30.09	11.97
2256.00	7.83	176.11	2254.74	51.68	32.18	-53.59	60.88	31.91	13.30
2287.00	11.78	183.36	2285.28	46.42	32.13	-48.33	56.45	34.70	13.33
2319.00	15.83	184.32	2316.35	38.80	31.61	-40.69	50.05	39.17	12.68
2350.00	19.87	185.90	2345.85	29.34	30.75	-31.20	42.50	46.35	13.12
2381.00	23.83	184.94	2374.62	17.85	29.67	-19.67	34.63	58.96	12.83
2413.00	27.96	183.71	2403.40	3.92	28.63	-5.70	28.90	82.20	13.01
2444.00	31.92	182.92	2430.26	-11.52	27.74	9.77	30.04	112.55	12.84
2475.00	35.44	183.09	2456.05	-28.69	26.84	26.96	39.28	136.90	11.36
2507.00	38.95	183.62	2481.54	-47.99	25.70	46.30	54.44	151.83	11.01
2538.00	42.38	183.97	2505.05	-68.15	24.37	66.50	72.37	160.33	11.09
2570.00	45.29	183.79	2528.13	-90.26	22.87	88.66	93.11	165.78	9.10

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2601.00	48.28	184.32	2549.35	-112.79	21.27	111.25	114.78	169.32	9.73
2632.00	51.44	184.50	2569.33	-136.42	19.44	134.94	137.79	171.89	10.20
2664.00	54.96	185.03	2588.50	-161.95	17.31	160.55	162.87	173.90	11.08
2695.00	57.86	186.08	2605.65	-187.64	14.81	186.36	188.23	175.49	9.77
2727.00	60.59	186.61	2622.02	-214.97	11.77	213.82	215.29	176.87	8.65
2758.00	63.22	186.17	2636.62	-242.14	8.73	241.13	242.30	177.94	8.58
2790.00	65.95	184.76	2650.35	-270.91	5.98	270.01	270.98	178.74	9.41
2821.00	69.38	183.88	2662.13	-299.50	3.82	298.68	299.52	179.27	11.37
2852.00	72.63	182.74	2672.22	-328.76	2.13	327.99	328.76	179.63	11.05
2883.00	76.15	182.39	2680.56	-358.58	.80	357.83	358.58	179.87	11.41
2915.00	79.40	182.65	2687.34	-389.82	-.58	389.10	389.82	180.08	10.19
2946.00	82.57	182.83	2692.19	-420.40	-2.04	419.71	420.40	180.28	10.24
2978.00	85.38	183.18	2695.55	-452.17	-3.71	451.53	452.19	180.47	8.85
3009.00	86.97	183.27	2697.62	-483.05	-5.45	482.46	483.09	180.65	5.14
3041.00	87.14	183.36	2699.26	-514.96	-7.30	514.41	515.01	180.81	.60
3072.00	88.37	183.44	2700.48	-545.88	-9.13	545.39	545.96	180.96	3.98
3103.00	90.48	183.88	2700.79	-576.81	-11.11	576.39	576.92	181.10	6.95
3134.00	91.10	183.79	2700.36	-607.74	-13.19	607.38	607.88	181.24	2.02
3165.00	91.28	183.88	2699.72	-638.66	-15.26	638.38	638.85	181.37	.65
3197.00	90.48	183.09	2699.23	-670.60	-17.20	670.37	670.82	181.47	3.51
3229.00	89.96	182.83	2699.10	-702.56	-18.86	702.37	702.81	181.54	1.82
3290.00	89.87	182.83	2699.19	-763.48	-21.87	763.36	763.80	181.64	.15
3383.00	89.60	183.09	2699.62	-856.36	-26.67	856.36	856.77	181.78	.40
3477.00	89.52	183.79	2700.35	-950.19	-32.31	950.35	950.73	181.95	.75
3570.00	89.60	184.06	2701.06	-1042.96	-38.68	1043.35	1043.68	182.12	.30
3664.00	89.52	183.62	2701.78	-1136.75	-44.97	1137.34	1137.64	182.27	.48
3701.00	89.34	184.51	2702.15	-1173.66	-47.59	1174.34	1174.62	182.32	2.45
3795.00	90.66	182.82	2702.15	-1267.46	-53.60	1268.34	1268.59	182.42	2.28
3868.00	90.48	182.40	2701.22	-1360.36	-57.84	1361.32	1361.59	182.43	.49
3982.00	90.22	182.41	2700.65	-1454.27	-61.78	1455.30	1455.58	182.43	.28
4076.00	89.78	184.64	2700.65	-1548.09	-67.56	1549.29	1549.56	182.50	2.42
4169.00	89.52	183.23	2701.22	-1640.86	-73.94	1642.28	1642.53	182.58	1.54
4232.00	89.60	183.02	2701.70	-1703.77	-77.38	1705.28	1705.52	182.60	.36
4325.00	90.40	184.03	2701.70	-1796.59	-83.10	1798.28	1798.51	182.65	1.39
4419.00	89.96	184.33	2701.41	-1890.34	-89.95	1892.27	1892.48	182.72	.57

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
4513.00	89.69	184.05	2701.69	-1984.09	-96.81	1986.27	1986.45	182.79	.41
4607.00	90.31	185.03	2701.69	-2077.79	-104.26	2080.25	2080.41	182.87	1.23
4702.00	90.22	185.17	2701.25	-2172.41	-112.70	2175.22	2175.34	182.97	.18
4797.00	89.96	185.72	2701.11	-2266.99	-121.71	2270.16	2270.25	183.07	.64
4892.00	89.87	185.89	2701.25	-2361.50	-131.32	2365.09	2365.15	183.18	.20
4986.00	90.31	185.04	2701.10	-2455.07	-140.28	2459.04	2459.07	183.27	1.02
5081.00	90.13	185.27	2700.73	-2549.68	-148.81	2554.00	2554.02	183.34	.31
5207.00	90.75	184.59	2699.77	-2675.21	-159.64	2679.96	2679.97	183.41	.73
5302.00	90.57	184.31	2698.67	-2769.92	-167.01	2774.94	2774.95	183.45	.35
5365.00	90.66	184.17	2698.00	-2832.74	-171.67	2837.94	2837.94	183.47	.26
5460.00	90.66	184.88	2696.90	-2927.44	-179.16	2932.92	2932.92	183.50	.75
5554.00	90.40	184.92	2696.03	-3021.09	-187.19	3026.89	3026.89	183.55	.28
5648.00	89.96	183.11	2695.74	-3114.86	-193.77	3120.88	3120.88	183.56	1.98
5741.00	89.78	182.32	2695.95	-3207.75	-198.18	3213.87	3213.87	183.54	.87
5834.00	89.96	182.29	2696.16	-3300.68	-201.92	3306.85	3306.85	183.50	.20
5929.00	89.87	182.53	2696.30	-3395.59	-205.91	3401.83	3401.83	183.47	.27
6023.00	89.78	182.09	2696.59	-3489.52	-209.70	3495.80	3495.81	183.44	.48
6114.00	89.25	183.86	2697.36	-3580.39	-214.42	3586.79	3586.80	183.43	2.03
6208.00	89.08	184.79	2698.73	-3674.11	-221.51	3680.77	3680.78	183.45	1.01
6302.00	89.16	183.88	2700.17	-3767.83	-228.62	3774.75	3774.76	183.47	.97
6397.00	89.60	183.96	2701.20	-3862.60	-235.11	3869.74	3869.75	183.48	.47
6492.00	89.52	184.11	2701.93	-3957.36	-241.79	3964.74	3964.74	183.50	.18
6586.00	89.34	183.01	2702.86	-4051.17	-247.63	4058.73	4058.73	183.50	1.19
6681.00	89.60	183.20	2703.74	-4146.03	-252.78	4153.72	4153.73	183.49	.34
6775.00	89.96	185.04	2704.10	-4239.78	-259.53	4247.71	4247.72	183.50	1.99
6870.00	90.48	185.46	2703.74	-4334.38	-268.22	4342.67	4342.67	183.54	.70
6963.00	90.57	185.99	2702.89	-4426.91	-277.50	4435.60	4435.60	183.59	.58
TD									
7050.00	90.57	185.99	2702.02	-4513.43	-286.58	4522.52	4522.52	183.63	.00

Well Head: 430' FNL 390' FEL
Bottom Hole: 474' FNL 677' FEL
347' FSL 677' FEL