

30-039-26858



1724-B Townhurst Dr, Houston, Tx 77043
(713) 827-8302
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Job Number: 205-274
Company: BHEP / Mallon Oil Corp.
Lease/Well: Jicarilla 29-02-06 # 3
Location: Rio Arriba County
Rig Name: Patterson 744
RKB:
G.L. or M.S.L.: 30-039-26858

State/Country: New Mexico
Declination:
Grid: 10.66°
File name: N:\BLACKH-1\2005\5-274J-1\290206#3.SVY
Date/Time: 03-Oct-05 / 10:54
Curve Name: Final NMOCD Surveys

SURF 710/N 460/W TVD MD
BHL' 639/W 407/W 3599 3600
BHL' 1040/W 561/E 3819 8145

Received
OCD
4-10-06

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 93.52
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

[Signature]

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT
Tie in with Gyro-data survey						
3600.00	2.32	326.00	3598.70	60.20	-52.50	-56.10
First Nevis MWD Survey						
3796.00	15.80	73.00	3792.28	71.37	-29.04	-33.36
3811.00	25.00	81.20	3806.32	72.45	-23.94	-28.34
3829.00	35.50	88.90	3821.86	73.14	-14.93	-19.39
3844.00	45.90	90.70	3833.21	73.16	-5.16	-9.64
3859.00	56.70	92.20	3842.58	72.85	6.53	2.04
3869.00	63.00	92.90	3847.60	72.46	15.16	10.68
3900.00	76.20	98.10	3858.39	69.63	44.00	39.64
3932.00	81.20	104.50	3864.66	63.47	74.74	70.70
3961.00	81.30	107.40	3869.07	55.59	102.30	98.69
3992.00	84.30	103.20	3872.96	47.49	131.95	128.79
4024.00	87.80	97.20	3875.17	41.84	163.35	160.48
4055.00	88.20	95.40	3876.25	38.44	194.15	191.42
4087.00	88.30	95.90	3877.23	35.29	225.98	223.38
4118.00	91.40	93.80	3877.31	32.67	256.86	254.37
4150.00	92.00	94.10	3876.36	30.47	288.77	286.35
4213.00	92.50	95.50	3873.88	25.20	351.50	349.29
4245.00	90.90	95.00	3872.94	22.27	383.35	381.26
4309.00	92.50	92.60	3871.04	18.03	447.17	445.22

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT
4340.00	92.20	91.80	3869.77	16.84	478.12	476.19
4372.00	91.80	92.40	3868.65	15.67	510.08	508.16
4435.00	91.00	92.50	3867.11	12.98	573.01	571.13
4498.00	90.50	91.90	3866.28	10.56	635.95	634.11
4561.00	95.10	91.80	3863.21	8.53	698.83	696.99
4625.00	95.60	91.20	3857.24	6.86	762.53	760.67
4719.00	95.70	91.80	3847.99	4.41	856.04	854.15
4782.00	95.50	93.90	3841.84	1.30	918.66	916.84
4846.00	94.90	95.30	3836.04	-3.82	982.19	980.57
4908.00	88.90	93.50	3833.98	-8.57	1043.94	1042.50
4971.00	85.90	91.80	3836.84	-11.48	1106.80	1105.41
5002.00	85.10	92.80	3839.27	-12.72	1137.68	1136.31
5063.00	85.80	94.80	3844.11	-16.75	1198.35	1197.11
5126.00	88.90	93.70	3847.02	-21.41	1261.10	1260.03
5189.00	92.20	91.70	3846.42	-24.38	1324.01	1323.01
5252.00	92.60	91.10	3843.78	-25.91	1386.94	1385.91
5284.00	94.70	91.80	3841.74	-26.72	1418.86	1417.83
5346.00	95.40	94.10	3836.29	-29.90	1480.53	1479.58
5409.00	94.90	95.20	3830.63	-34.99	1543.07	1542.31
5472.00	95.60	95.80	3824.87	-41.00	1605.52	1605.01
5535.00	94.00	97.00	3819.59	-48.00	1667.90	1667.70
5598.00	92.80	98.70	3815.86	-56.59	1730.20	1730.41
5660.00	91.30	99.80	3813.64	-66.55	1791.35	1792.06
5723.00	90.70	98.40	3812.54	-76.51	1853.55	1854.75
5786.00	90.30	98.00	3811.99	-85.49	1915.90	1917.53
5849.00	89.70	97.50	3811.99	-93.99	1978.32	1980.36
5911.00	90.10	97.60	3812.10	-102.14	2039.79	2042.21
5973.00	90.60	98.40	3811.72	-110.76	2101.18	2104.02
6036.00	90.80	99.30	3810.95	-120.46	2163.43	2166.74
6104.00	90.40	98.90	3810.24	-131.21	2230.57	2234.41
6167.00	89.90	98.40	3810.07	-140.68	2292.85	2297.16
6231.00	89.60	98.40	3810.35	-150.03	2356.16	2360.93
6294.00	89.90	96.10	3810.63	-157.98	2418.65	2423.79
6358.00	89.90	95.90	3810.74	-164.67	2482.30	2487.73
6421.00	89.40	96.90	3811.12	-171.70	2544.91	2550.65
6484.00	88.60	94.50	3812.22	-177.95	2607.58	2613.59
6547.00	89.60	95.60	3813.21	-183.50	2670.33	2676.56
6610.00	90.50	96.70	3813.16	-190.25	2732.96	2739.49
6673.00	91.30	96.50	3812.17	-197.49	2795.54	2802.39
6736.00	92.30	96.90	3810.19	-204.83	2858.08	2865.26
6799.00	92.70	97.40	3807.44	-212.67	2920.53	2928.07

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT
6863.00	92.30	97.60	3804.65	-221.01	2983.92	2991.86
6987.00	91.80	97.40	3800.21	-237.19	3106.78	3115.48
7049.00	90.70	97.30	3798.86	-245.12	3168.25	3177.32
7111.00	91.40	96.30	3797.73	-252.46	3229.80	3239.21
7174.00	92.10	96.20	3795.80	-259.31	3292.40	3302.11
7237.00	91.90	96.00	3793.60	-266.00	3355.01	3365.01
7301.00	91.90	95.80	3791.48	-272.58	3418.63	3428.92
7363.00	91.40	95.40	3789.70	-278.62	3480.31	3490.85
7426.00	91.60	94.60	3788.05	-284.11	3543.05	3553.81
7489.00	91.90	94.50	3786.12	-289.11	3605.82	3616.77
7520.00	91.60	94.80	3785.18	-291.62	3636.70	3647.75
7552.00	90.60	93.70	3784.56	-293.99	3668.61	3679.74
7584.00	88.90	93.50	3784.70	-296.00	3700.54	3711.74
7615.00	88.10	93.30	3785.51	-297.84	3731.48	3742.73
7646.00	88.00	92.50	3786.57	-299.41	3762.42	3773.71
7677.00	88.50	92.60	3787.51	-300.78	3793.38	3804.69
7741.00	88.10	92.00	3789.41	-303.35	3857.30	3868.64
7803.00	87.60	93.30	3791.74	-306.22	3919.18	3930.59
7834.00	87.10	93.40	3793.17	-308.03	3950.10	3961.56
7847.00	86.40	93.90	3793.91	-308.85	3963.05	3974.54
7929.00	86.40	93.90	3799.06	-314.42	4044.70	4056.37
7960.00	86.00	93.30	3801.11	-316.36	4075.57	4087.30
7991.00	85.40	93.30	3803.44	-318.14	4106.43	4118.22
8022.00	84.50	94.80	3806.17	-320.32	4137.23	4149.09
8053.00	84.10	94.60	3809.25	-322.85	4167.98	4179.93
8085.00	84.30	94.40	3812.48	-325.35	4199.71	4211.77
Last Nevis MWD Survey						
8100.00	84.10	94.70	3813.99	-326.53	4214.59	4226.69
Survey Projected to TD						
8145.00	84.10	94.70	3818.62	-330.20	4259.20	4271.44