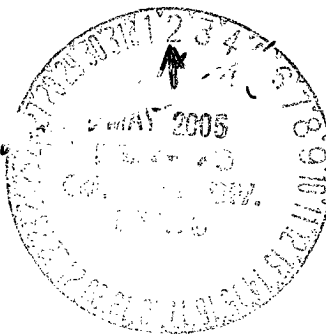




21 January 2005

State of New Mexico
Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

Re: Mallon Oil Company
Jicarilla 29-02-05 #4
Rio Arriba Co., NM
Job #204-296
API No. 300-39-27596



To whom it May Concern:

31 039 27596

Enclosed please find the Directional Survey data and Lease Plat for the above referenced well to be filed with your group.

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Robert Jimenez	#4	3,857	6,825	18 Nov 04	25 Nov 04	MWD

Thank you for the opportunity to be of service. Please contact me if you have any questions or require additional information.

Sincerely,

Matthew K. Brown
Operations Coordinator

Surface 705/N 2245/E
BHL 675/N 790/W



DIRECTIONAL SURVEY CERTIFICATION

RE: Mallon Oil Company (Operator)

Jicarilla 29-02-05 #4 (Well Name & No.)

Section 5 Twp. 29 N Range 02 W

Well File No. _____

I, Matthew K. Brown, having personal knowledge of all the facts, hereby certify that the

attached directional surveys for the well run from measured depth of

3,857 feet to a measured depth of 6,825 feet,

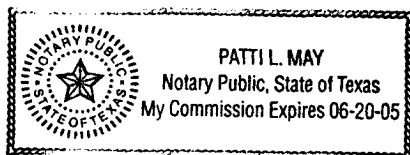
respectively, are true and correct as determined from all available records.

Math K. B. Ops. Cord. Nevis Energy Services, Inc
Signature Title Company

State of Texas
County of Harris

On this 21 day of January, 2005, before me personally appeared

Matthew K. Brown to me known as the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.



Patti L. May
Notary Public

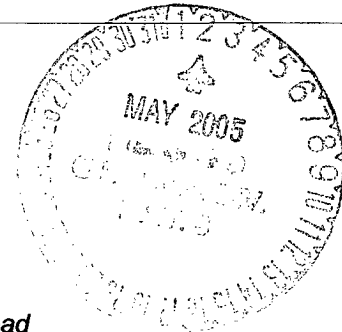
6/20/05
My Commission Expires



1724-B Townhurst Dr, Houston, Tx 77043
(713) 827-8302
www.nevisenergy.com

Job Number: 204-296
Company: BHEP / Mallon Oil Co.
Lease/Well: Jicarilla 29-02-05 #4
Location: Rio Arriba County
Rig Name: Key Rig #44
RKB: ☐
G.L. or M.S.L.: API #300-39-27596

State/Country: New Mexico
Declination: 10.39° East
Grid: ☐
File name: N:\BLACKH-1\204-29-1\29-02-05.SVY
Date/Time: 21-Jan-05 / 14:29
Curve Name: Final NMOCF Filing



WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 270.85
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
Tie in with Gyrodata Survey						
3825.00	1.66	80.70	3824.00	40.70	58.80	-58.19
First Nevis MWD Survey						
3857.00	7.70	239.60	3855.92	39.69	57.41	-56.81
3888.00	25.80	263.40	3885.51	37.84	48.83	-48.27
3898.00	31.20	264.80	3894.29	37.36	44.09	-43.53
3909.00	37.60	265.90	3903.36	36.86	37.90	-37.35
3918.00	42.80	266.50	3910.23	36.48	32.10	-31.56
3933.00	51.20	267.50	3920.45	35.91	21.16	-20.62
3949.00	59.50	268.60	3929.54	35.47	8.02	-7.49
3959.00	64.90	269.70	3934.21	35.34	-8.3	1.35
3969.00	69.80	270.40	3938.06	35.35	-10.05	10.58
3980.00	75.30	270.40	3941.35	35.42	-20.54	21.06
4024.00	93.40	272.00	3945.67	36.35	-64.13	64.67
4056.00	100.10	272.00	3941.91	37.45	-95.88	96.42
4150.00	100.50	272.30	3925.10	40.92	-188.30	188.88
4213.00	99.90	271.60	3913.94	43.03	-250.26	250.87
4276.00	98.50	271.30	3903.87	44.61	-312.43	313.06
4338.00	97.30	270.50	3895.35	45.57	-373.83	374.47
4401.00	96.60	270.50	3887.73	46.12	-436.37	437.00
4464.00	97.30	270.20	3880.10	46.50	-498.90	499.54
4527.00	95.90	270.20	3872.86	46.72	-561.48	562.12
4598.00	93.80	270.50	3866.86	47.15	-632.22	632.85

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT
4652.00	94.70	268.80	3862.86	46.82	-686.07	686.69
4715.00	92.00	268.50	3859.18	45.34	-748.94	749.53
4776.00	89.70	270.20	3858.27	44.65	-809.92	810.50
4840.00	89.90	269.10	3858.50	44.26	-873.92	874.48
4902.00	89.90	268.80	3858.60	43.12	-935.91	936.45
4965.00	89.90	268.10	3858.71	41.42	-998.89	999.39
5028.00	90.40	267.00	3858.55	38.72	-1061.83	1062.29
5091.00	91.50	268.80	3857.51	36.41	-1124.77	1125.19
5162.00	91.50	270.90	3855.65	36.23	-1195.75	1196.15
5224.00	89.20	271.30	3855.27	37.42	-1257.73	1258.15
5287.00	89.20	270.50	3856.15	38.41	-1320.71	1321.14
5318.00	90.60	270.20	3856.20	38.60	-1351.71	1352.14
5381.00	91.30	269.80	3855.16	38.60	-1414.70	1415.12
5444.00	91.10	269.50	3853.84	38.21	-1477.69	1478.09
5507.00	91.30	269.10	3852.52	37.44	-1540.67	1541.06
5538.00	91.30	269.10	3851.81	36.96	-1571.66	1572.03
5632.00	90.30	268.40	3850.50	34.91	-1665.62	1665.96
5727.00	89.90	267.70	3850.34	31.67	-1760.57	1760.84
5820.00	91.50	267.00	3849.20	27.37	-1853.46	1853.66
5883.00	89.40	267.00	3848.71	24.08	-1916.37	1916.51
5977.00	90.40	266.70	3848.87	18.91	-2010.22	2010.28
6009.00	89.40	266.70	3848.93	17.07	-2042.17	2042.20
6072.00	90.30	266.00	3849.09	13.06	-2105.04	2105.00
6167.00	91.50	265.60	3847.60	6.10	-2199.77	2199.62
6198.00	94.50	267.40	3845.98	4.21	-2230.67	2230.48
6229.00	88.90	268.80	3845.06	3.19	-2261.62	2261.42
6261.00	88.20	268.40	3845.87	2.40	-2293.60	2293.39
6292.00	88.20	268.40	3846.84	1.54	-2324.58	2324.34
6324.00	86.20	268.10	3848.40	.56	-2356.52	2356.27
6355.00	86.00	268.10	3850.51	-.46	-2387.43	2387.16
6449.00	84.80	268.10	3858.05	-3.57	-2481.08	2480.75
6543.00	83.20	267.40	3867.88	-7.24	-2574.49	2574.10
6637.00	82.50	266.00	3879.58	-12.61	-2667.60	2667.12
6731.00	82.70	266.30	3891.68	-18.86	-2760.60	2760.02
Last Nevis MWD Survey						
6825.00	82.30	267.00	3903.95	-24.31	-2853.64	2852.96
Survey Projected to TD						
6928.00	82.30	267.00	3917.75	-29.65	-2955.57	2954.81