



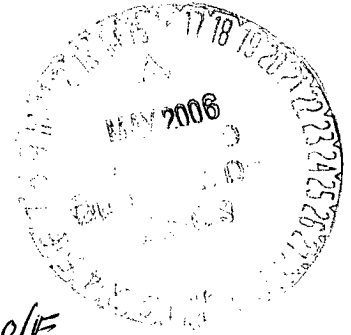
10 May 2006

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

Re: Mallon Oil Company
Jicarilla 29-03-11 #2
Rio Arriba Co., NM
Job #205-264
API No. 30-039-~~27799~~

26731

Surface 2050/N 630/E
Begin lateral 1905/N 776/E
End lateral 556/N 740/W



To whom it May Concern:

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	
Vin Adams	#2	3,932	7,865	4 Sep 05	11 Sep 05	MWD

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

Sincerely,

Andres Puente

Andres Puente
Well Planner

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DIRECTIONAL SURVEY CERTIFICATION

RE: Mallon Oil Company (Operator)

Jicarilla 29-03-11 #2 (Well Name & No.)

Section 11 Twp. 29 N Range 03 W

Well File No. 30-039-~~27799~~ 26731

I, Andres Puente, having personal knowledge of all the facts, hereby certify that the attached directional surveys for the Jicarilla 29-03-11#2 run from measured depth of 3,932 feet to a measured depth of 7,865 feet, respectively, are true and correct as determined from all available records.

Andres Puente

Signature

Well Planner

Title

Nevis Energy Services, Inc

Company

State of Texas

County of Harris

On this 10 day of May, 2006, before me personally appeared

Andres Puente 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

06/20/09
My Commission Expires

**NEVIS ENERGY SERVICES INC.
SURVEY DATA CERTIFICATION**



NEVIS JOB NUMBER

205-264

OPERATOR

Black Hills E&P

WELL NAME

Jicarilla 29-03-11#2 S/T

COUNTY & STATE

Rio Arriba, NM

API WELL NUMBER

30-039-27789 26731

VERT. SECT. DIRECTION

289.21

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
3,900 ft	3,805. ft	96.7	309.5	124.6	-121.3	Nevis MWD

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
4-Sep-05	3,932 ft	93.1	310

SURVEY INSTRUMENT
TYPE
Nevis MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
11-Sep-05	7,865 ft	90.7	286.2

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
11-Sep-05	7,910 ft	90.7	286.2

Vinn Adams

PRINT YOUR NAME ABOVE

Vinn Adams

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR GRID CONVERGENCE

TOTAL CORRECTION USED

10.66

9/11/2005

TODAY'S DATE

MWD SUPERVISOR 1

Vinn Adams

DIRECTIONAL DRILLER 1

Rhett Hebert

MWD SUPERVISOR 2

0

DIRECTIONAL DRILLER 2

Robert Byars

1724-B Townhurst Dr

Houston, Texas 77043

(713) 827-8302



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

Job Number: 204-264
Company: Black Hills E & P / Mallon Oil
Lease/Well: Jicarilla 29-03-11 # 2
Location: Rio Arriba Co., NM
Rig Name: Longhorn # 1
RKB:
G.L. or M.S.L.:

State/Country: New Mexico
Declination: 10.60336
Grid: -0.36
File name: N:\BLACKH~1\2005\5-264J~1\29-03-11.SVY
Date/Time: 28-Apr-06 / 11:24
Curve Name: Final NMOCF Filing

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 289.21
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Tie in w/ Actual Survey									
3900.00	96.70	309.50	3804.98	155.58	124.63	-121.33	173.93	315.77	.00
Fisrt Nevis MWD Survey									
3932.00	93.10	310.00	3802.25	185.43	145.01	-145.84	205.66	314.84	11.36
3963.00	94.20	310.90	3800.27	214.26	165.08	-169.38	236.52	314.26	4.58
3995.00	90.00	310.90	3799.10	243.97	186.02	-193.54	268.44	313.86	13.12
4026.00	89.90	310.90	3799.13	272.78	206.31	-216.98	299.41	313.56	.32
4057.00	86.80	308.70	3800.02	301.78	226.14	-240.78	330.33	313.21	12.26
4118.00	90.10	307.10	3801.67	359.53	263.60	-288.89	391.07	312.38	6.01
4181.00	92.30	303.80	3800.35	419.99	300.12	-340.19	453.65	311.42	6.29
4244.00	92.90	300.30	3797.49	481.34	333.51	-393.52	515.84	310.28	5.63
4307.00	93.60	296.60	3793.92	543.42	363.47	-448.81	577.53	309.00	5.97
4370.00	91.30	292.30	3791.22	606.08	389.51	-506.09	638.63	307.58	7.73
4401.00	91.10	292.40	3790.57	637.02	401.30	-534.76	668.59	306.89	.72
4432.00	90.80	292.00	3790.06	667.98	413.01	-563.46	698.61	306.24	1.61
4496.00	91.00	290.30	3789.06	731.93	436.10	-623.14	760.58	304.99	2.67
4559.00	89.80	288.20	3788.62	794.92	456.87	-682.61	821.39	303.79	3.84
4622.00	90.90	286.80	3788.23	857.89	475.81	-742.69	882.03	302.65	2.83
4685.00	91.00	286.60	3787.19	920.82	493.91	-803.02	942.76	301.59	.35
4747.00	90.30	286.10	3786.48	982.74	511.36	-862.51	1002.71	300.66	1.39
4810.00	90.10	287.80	3786.26	1045.69	529.73	-922.77	1064.01	299.86	2.72
4874.00	89.90	287.90	3786.26	1109.67	549.35	-983.69	1126.69	299.18	.35
4936.00	91.10	286.70	3785.72	1171.63	567.78	-1042.88	1187.43	298.57	2.74

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
5000.00	90.20	287.90	3785.00	1235.59	586.81	-1103.98	1250.25	297.99	2.34
5063.00	88.10	288.90	3785.93	1298.57	606.70	-1163.75	1312.40	297.53	3.69
5125.00	88.50	288.10	3787.77	1360.54	626.36	-1222.52	1373.64	297.13	1.44
5188.00	90.30	286.70	3788.43	1423.50	645.20	-1282.63	1435.76	296.70	3.62
5250.00	90.70	285.60	3787.89	1485.41	662.44	-1342.18	1496.75	296.27	1.89
5312.00	90.90	285.00	3787.02	1547.26	678.80	-1401.97	1557.66	295.84	1.02
5375.00	90.50	285.40	3786.25	1610.10	695.32	-1462.77	1619.61	295.42	.90
5438.00	89.80	285.20	3786.09	1672.95	711.94	-1523.53	1681.67	295.05	1.16
5501.00	88.70	285.10	3786.91	1735.79	728.40	-1584.34	1743.76	294.69	1.75
5564.00	88.90	285.00	3788.23	1798.61	744.76	-1645.16	1805.89	294.36	.35
5626.00	89.30	281.80	3789.21	1860.27	759.12	-1705.46	1866.78	293.99	5.20
5689.00	90.00	283.60	3789.59	1922.86	772.97	-1766.91	1928.59	293.63	3.07
5752.00	87.60	282.80	3790.91	1985.50	787.36	-1828.23	1990.57	293.30	4.02
5856.00	89.30	281.80	3793.72	2088.70	809.50	-1929.80	2092.71	292.76	1.90
5919.00	92.50	282.30	3792.73	2151.19	822.65	-1991.40	2154.63	292.45	5.14
5981.00	93.00	282.80	3789.76	2212.70	836.11	-2051.85	2215.66	292.17	1.14
6043.00	93.20	281.00	3786.41	2274.11	848.87	-2112.42	2276.60	291.89	2.92
6106.00	93.30	280.40	3782.83	2336.31	860.55	-2174.23	2338.33	291.59	.96
6169.00	93.10	280.80	3779.32	2398.50	872.12	-2236.06	2400.11	291.31	.71
6200.00	92.80	281.00	3777.72	2429.14	877.97	-2266.46	2430.57	291.18	1.16
6232.00	91.70	281.90	3776.47	2460.82	884.32	-2297.79	2462.09	291.05	4.44
6294.00	91.60	282.30	3774.68	2522.32	897.31	-2358.39	2523.33	290.83	.66
6357.00	90.50	281.90	3773.53	2584.82	910.52	-2419.98	2585.60	290.62	1.86
6420.00	90.20	283.10	3773.14	2647.39	924.15	-2481.48	2647.98	290.43	1.96
6483.00	89.70	284.40	3773.20	2710.10	939.13	-2542.68	2710.57	290.27	2.21
6546.00	89.00	284.80	3773.91	2772.89	955.00	-2603.64	2773.26	290.14	1.28
6609.00	88.50	285.30	3775.29	2835.71	971.36	-2664.46	2836.00	290.03	1.12
6672.00	89.60	286.30	3776.33	2898.59	988.51	-2725.07	2898.82	289.94	2.36
6735.00	89.30	285.60	3776.93	2961.48	1005.82	-2785.64	2961.67	289.85	1.21
6798.00	90.30	286.40	3777.15	3024.38	1023.19	-2846.20	3024.53	289.77	2.03
6861.00	90.30	286.80	3776.82	3087.32	1041.18	-2906.58	3087.43	289.71	.63
6924.00	89.00	286.50	3777.21	3150.25	1059.23	-2966.93	3150.34	289.65	2.12
7018.00	90.90	287.50	3777.29	3244.18	1086.72	-3056.82	3244.24	289.57	2.28
7050.00	90.90	287.50	3776.79	3276.16	1096.34	-3087.33	3276.22	289.55	.00
7112.00	90.40	287.20	3776.09	3338.12	1114.83	-3146.51	3338.17	289.51	.94
7174.00	92.20	288.20	3774.68	3400.08	1133.67	-3205.56	3400.12	289.48	3.32
7237.00	91.80	288.40	3772.48	3463.03	1153.44	-3265.33	3463.06	289.46	.71
7299.00	90.60	287.70	3771.18	3525.01	1172.64	-3324.27	3525.03	289.43	2.24
7362.00	91.20	288.90	3770.19	3587.99	1192.42	-3384.07	3588.01	289.41	2.13
7425.00	90.90	287.50	3769.04	3650.97	1212.10	-3443.91	3650.98	289.39	2.27
7488.00	90.50	286.60	3768.27	3713.92	1230.57	-3504.13	3713.93	289.35	1.56
7551.00	90.70	286.80	3767.61	3776.85	1248.67	-3564.47	3776.86	289.31	.45
7614.00	91.50	286.90	3766.40	3839.79	1266.93	-3624.76	3839.79	289.27	1.28
7677.00	91.30	285.40	3764.86	3902.68	1284.45	-3685.25	3902.68	289.22	2.40
7708.00	90.80	285.80	3764.29	3933.61	1292.78	-3715.10	3933.61	289.19	2.07

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
7739.00	90.70	285.80	3763.89	3964.55	1301.22	-3744.93	3964.55	289.16	32
7771.00	90.50	286.50	3763.55	3996.50	1310.12	-3775.67	3996.51	289.14	2.27
7802.00	90.40	286.20	3763.31	4027.46	1318.85	-3805.41	4027.47	289.11	1.02
7834.00	90.60	286.60	3763.03	4059.42	1327.88	-3836.11	4059.43	289.09	1.40
Last Nevis MWD Survey									
7865.00	90.70	286.20	3762.68	4090.39	1336.63	-3865.85	4090.40	289.07	1.33
Survey Projected to TD									
7910.00	90.70	286.20	3762.13	4135.32	1349.19	-3909.06	4135.34	289.04	.00