

Record Clean up

RCVD AUG 2 '12
OIL CONS. DIV.
DIST. 3

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, N.M. 87505

"As Drilled"

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-25906-00-00		² Pool Code 72400		³ Pool Name EAST BLANCO PICTURED CLIFFS	
⁴ Property Code 22211		⁵ Property Name JICARILLA 459-17			⁶ Well Number 11
⁷ OGRID No. 13925		⁸ Operator Name BLACK HILLS GAS RESOURCES			⁹ Elevation 7291

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	17	30-N	3-W		1188	SOUTH	1603	EAST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	17	30-N	3-W		2223	SOUTH	1207	WEST	RIO ARRIBA

¹² Dedicated Acres 320 AC. S/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 LEGEND: - O = SURFACE LOCATION ● = BOTTOM HOLE LOCATION ⊙ = FOUND 1917 U.S.G.L.O. BRASS CAP ⊙ = FOUND SET STONE		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>[Signature]</i> 7/31/12 Signature Date Daniel Mawes Printed Name daniel.mawes@blackhills.com E-mail Address	
AS DRILLED PER NEVIS REPORT SECTION 17		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number	

Ar

A Gyrodata Directional Survey

NEVIS DIRECTIONAL

Location: KEY #44, RIO ARRIBA, NEW MEXICO

Lease: JICARILLA 459-17 Well: #11, 2-7/8" DRILLPIPE

Job Number: MD0904GW205

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.0	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 - 3800 FT. RATE GYROCOPIC MULTISHOT SURVEY RUN INSIDE 2-7/8" DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO KEY#44R.K.B.							
KEY #44 R.K.B. AT 13 FT.							

200.00	0.15	346.49	0.1	0.08	200.00	0.3 346.5	0.26 N 0.06 W
400.00	0.43	328.25	0.9	0.15	400.00	1.3 335.8	1.16 N 0.52 W
600.00	0.39	237.32	1.9	0.29	599.99	2.1 313.8	1.43 N 1.49 W
800.00	0.58	274.23	3.3	0.18	799.99	3.3 290.3	1.14 N 3.08 W
1000.00	0.70	278.21	5.5	0.06	999.97	5.5 284.7	1.39 N 5.30 W
1200.00	0.71	261.70	7.7	0.10	1199.96	7.9 280.1	1.38 N 7.73 W
1400.00	0.80	237.50	9.7	0.16	1399.94	10.1 272.6	0.46 N 10.13 W
1600.00	0.75	235.43	11.3	0.03	1599.92	12.4 265.2	1.03 S 12.38 W
1800.00	0.43	228.03	12.4	0.16	1799.91	14.2 260.8	2.28 S 14.02 W
2000.00	0.11	249.30	12.9	0.17	1999.91	15.0 259.1	2.85 S 14.76 W
2200.00	0.04	36.70	13.0	0.07	2199.91	15.2 259.1	2.86 S 14.89 W
2400.00	0.60	209.26	13.2	0.32	2399.91	15.8 256.4	3.72 S 15.36 W
2600.00	0.86	193.29	13.2	0.16	2599.89	17.3 249.4	6.10 S 16.22 W
2800.00	1.14	189.02	12.6	0.15	2799.86	19.4 240.6	9.52 S 16.88 W
3000.00	1.06	196.95	12.1	0.09	2999.82	22.1 233.2	13.27 S 17.73 W
3200.00	1.25	179.96	11.3	0.19	3199.78	25.1 226.7	17.22 S 18.27 W
3400.00	0.92	147.97	9.3	0.34	3399.75	27.1 220.0	20.76 S 17.41 W
3600.00	1.05	115.47	6.2	0.28	3599.72	27.3 213.1	22.91 S 14.91 W
3800.00	0.68	137.35	3.3	0.25	3799.70	27.5 206.9	24.56 S 12.46 W

A Gyrodata Directional Survey

NEVIS DIRECTIONAL

Location: KEY #44, RIO ARRIBA, NEW MEXICO

Lease: JICARILLA 459-17 Well: #11, 2-7/8" DRILLPIPE

Job Number: MD0904GW205

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
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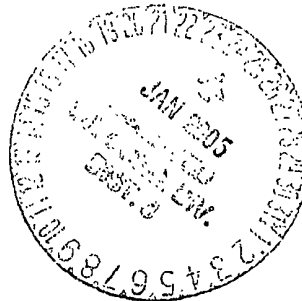
Final Station Closure: Distance: 27.54 ft Az: 206.89 deg.



21 January 2005

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

Re: Mallon Oil Company
Jicarilla 459-17 #11
Rio Arriba Co., NM
Job #204-242
API No. 30-039-25906





DIRECTIONAL SURVEY CERTIFICATION

RE: Mallon Oil Company (Operator)

Jicarilla 459-17 #11 (Well Name & No.)

Section 17 Twp. 30 N Range 03 W

Well File No. 300-39-25906

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

3,867 feet to a measured depth of 6,515 feet,

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

Matthew K. Brown
Signature

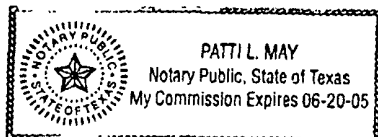
Operations Coord.
Title

Nevis Energy Services, Inc
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: 204-242
Company: Mallon Oil / BHEP
Lease/Well: Jicarilla 459-17 # 11
Location: Rio Arriba Co.
Rig Name: Key 44
RKB:
G.L. or M.S.L.: API No. 30-039-25906

State/Country: New Mexico
Declination: 10.72° East
Grid:
File name: N:\BLACKH-1\204-24-1\459-17-.SVY
Date/Time: 21-Jan-05 / 09:42
Curve Name: Final NDIC Filing

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 290.71
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 to Accurate Gyro Survey						
3800.00	.68	137.40	3799.70	-24.60	-12.50	2.99
First NEVIS MWD Survey						
3867.00	25.30	270.80	3864.58	-24.69	-26.79	16.32
3898.00	42.50	279.70	3890.23	-22.82	-43.87	32.97
3930.00	59.80	277.90	3910.23	-19.07	-68.41	57.25
3950.00	71.10	272.90	3918.53	-17.40	-86.49	74.75
3992.00	88.10	267.70	3926.09	-17.23	-127.63	113.29
4023.00	89.30	273.40	3926.79	-16.94	-158.61	142.37
4055.00	90.40	278.30	3926.88	-13.68	-190.43	173.29
4086.00	92.60	282.60	3926.06	-8.06	-220.90	203.78
4149.00	90.80	291.00	3924.19	10.13	-281.13	266.54
4211.00	91.50	292.10	3922.95	32.90	-338.78	328.52
4275.00	92.10	291.80	3920.94	56.81	-398.11	392.48
4338.00	92.70	291.90	3918.30	80.23	-456.53	455.41
4402.00	89.70	292.20	3916.96	104.25	-515.83	519.37
4465.00	90.70	292.40	3916.74	128.16	-574.12	582.34
4528.00	91.90	292.40	3915.31	152.16	-632.35	645.30
4591.00	89.90	291.70	3914.32	175.81	-690.73	708.27
4654.00	89.80	290.80	3914.49	198.64	-749.45	771.27
4717.00	88.90	290.10	3915.20	220.65	-808.47	834.26
4812.00	90.30	291.60	3915.86	254.46	-897.24	929.25
4877.00	92.10	293.90	3914.50	279.59	-957.17	994.19

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT
4940.00	93.50	295.30	3911.42	305.78	-1014.38	1056.97
5002.00	92.00	294.20	3908.45	331.70	-1070.62	1118.74
5065.00	91.40	293.40	3906.58	357.12	-1128.23	1181.62
5160.00	91.60	293.60	3904.09	394.98	-1215.32	1276.47
5255.00	92.80	292.60	3900.45	432.23	-1302.64	1371.32
5350.00	92.30	291.30	3896.22	467.70	-1390.66	1466.20
5444.00	90.30	292.90	3894.09	503.06	-1477.73	1560.14
5538.00	90.50	294.50	3893.43	540.84	-1563.79	1654.01
5632.00	90.90	298.00	3892.28	582.40	-1648.08	1747.55
5726.00	92.50	301.30	3889.49	628.87	-1729.72	1840.35
5820.00	92.00	302.10	3885.80	678.23	-1809.64	1932.55
5915.00	90.50	303.50	3883.73	729.68	-1889.47	2025.42
6009.00	89.70	302.60	3883.57	780.94	-1968.26	2117.24
6107.00	91.80	301.40	3882.28	832.87	-2051.35	2213.33
6198.00	92.60	299.30	3878.79	878.81	-2129.82	2302.97
6292.00	93.50	297.30	3873.79	923.31	-2212.46	2396.01
6389.00	94.40	299.00	3867.11	968.96	-2297.78	2491.96
Last Nevis MWD Survey						
6515.00	94.50	296.50	3857.33	1027.45	-2408.94	2616.63
Survey projected to bit						
6558.00	95.00	265.00	3853.68	1035.34	-2450.51	2658.30