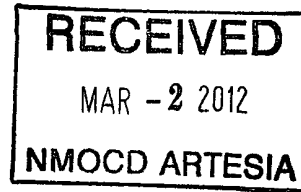


30-015-38664



MURCHISON OIL & GAS

County Line Tank
Eddy County, NM
Pequeno Mike "BLU" Federal #4H
VH - Job #32K12111203

Survey: Gyro

SDI Standard Survey Report

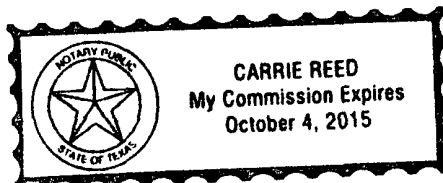
This survey is correct to the best of my knowledge and is supported by actual field data.

Libhartm

Notarized this date 31st of December, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	MURCHISON OIL & GAS	Local Co-ordinate Reference:	Well Pequeno Mike "BLU" Federal #4H
Project:	County Line Tank	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Pequeno Mike "BLU" Federal #4H	North Reference:	Grid
Wellbore:	VH - Job #32K12111203	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K12111203	Database:	EDM-Regulatory

Project	County Line Tank		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Eddy County, NM		
Site Position:		Northing:	710,759 00 usft
From:	Lat/Long	Easting:	585,836 35 usft
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 57' 13 090 N
		Longitude:	104° 3' 10 555 W
		Grid Convergence:	0 15 °

Well	Pequeno Mike "BLU" Federal #4H, Directional (Pathfinder)		
Well Position	+N/-S	0 0 usft	Northing: 711,462 68 usft
	+E/-W	0 0 usft	Easting: 586,009 56 usft
Position Uncertainty	0 0 usft	Wellhead Elevation:	usft
		Latitude:	32° 57' 20 048 N
		Longitude:	104° 3' 10 555 W
		Ground Level:	0 0 usft

Wellbore	VH - Job #32K12111203				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/11/2011	7 81	60 77	48,980

Design	VH - Job #32K12111203			
Audit Notes:				
Version:	1 0	Phase:	ACTUAL	Tie On Depth: 0 0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 0	0 0	0 0	268 90

Survey Program	Date	1/22/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100 0	6,480 0	Gyro (VH - Job #32K12111203)	Keeper	Keeper Gyro

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 0	0 0
100 0	0 11	113 30	100 0	0 0	0 1	113 30	0 1	0 1
200 0	0 65	140 93	200 0	-0 5	0 5	134 04	0 7	0 7
300 0	0 98	131 80	300 0	-1 5	1 5	134 96	2 2	2 2
400 0	1 27	118 07	400 0	-2 6	3 1	129 78	4 1	4 1
500 0	1 23	111 76	499 9	-3 5	5 1	124 65	6 2	6 2
600 0	1 20	106 77	599 9	-4 2	7 1	120 77	8 3	8 3
700 0	1 32	94 22	699 9	-4 6	9 3	116 51	10 4	10 4
800 0	1 33	100 88	799 9	-4 9	11 6	113 09	12 6	12 6
900 0	1 18	102 33	899 8	-5 4	13 7	111 39	14 7	14 7
1,000 0	1 05	100 06	999 8	-5 7	15 6	110 21	16 6	16 6
1,100 0	0 94	102 92	1,099 8	-6 1	17 3	109 38	18 4	18 4

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	MURCHISON OIL & GAS	Local Co-ordinate Reference:	Well Pequeno Mike "BLU" Federal #4H
Project:	County Line Tank	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Pequeno Mike "BLU" Federal #4H	North Reference:	Grid
Wellbore:	VH - Job #32K12111203	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K12111203	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
1,200 0	0 65	116 87	1,199 8	-6 5	18 6	109 33	19 7	
1,300 0	0 37	109 55	1,299 8	-6 9	19 4	109 54	20 6	
1,400 0	0 25	108 57	1,399 8	-7 1	19 9	109 53	21 2	
1,500 0	0 19	68 42	1,499 8	-7 1	20 3	109 23	21 5	
1,600 0	0 28	46 08	1,599 8	-6 9	20 6	108 37	21 7	
1,700 0	0 39	59 86	1,699 8	-6 5	21 1	107 15	22 1	
1,800 0	0 14	56 09	1,799 8	-6 3	21 5	106 26	22 4	
1,900 0	0 05	345 11	1,899 8	-6 2	21 6	105 93	22 4	
2,000 0	0 43	324 38	1,999 8	-5 8	21 4	105 23	22 1	
2,100 0	0 30	304 46	2,099 8	-5 4	20 9	104 37	21 6	
2,200 0	0 37	295 75	2,199 8	-5 1	20 4	103 95	21 0	
2,300 0	0 55	284 96	2,299 8	-4 8	19 7	103 74	20 2	
2,400 0	0 49	284 26	2,399 8	-4 6	18 8	103 70	19 3	
2,500 0	0 67	270 21	2,499 8	-4 5	17 8	104 11	18 3	
2,600 0	0 64	275 66	2,599 8	-4 4	16 6	104 85	17 2	
2,700 0	0 65	253 34	2,699 8	-4 5	15 5	106 22	16 2	
2,800 0	0 69	266 03	2,799 8	-4 7	14 4	108 17	15 2	
2,900 0	0 60	274 64	2,899 8	-4 7	13 3	109 59	14 1	
3,000 0	0 53	256 54	2,999 7	-4 8	12 3	111 27	13 2	
3,100 0	0 74	256 25	3,099 7	-5 1	11 2	114 22	12 3	
3,200 0	0 82	273 64	3,199 7	-5 2	9 9	117 55	11 2	
3,300 0	0 97	262 96	3,299 7	-5 2	8 3	122 05	9 8	
3,400 0	0 88	270 67	3,399 7	-5 3	6 7	128 30	8 6	
3,500 0	0 83	256 33	3,499 7	-5 5	5 3	136 17	7 6	
3,600 0	0 78	278 71	3,599 7	-5 5	3 9	145 02	6 8	
3,700 0	0 71	285 34	3,699 7	-5 3	2 6	153 70	5 9	
3,800 0	0 72	280 21	3,799 7	-5 0	1 4	164 44	5 2	
3,900 0	0 82	298 72	3,899 7	-4 5	0 1	178 16	4 5	
4,000 0	0 75	328 27	3,999 7	-3 6	-0 8	192 76	3 7	
4,100 0	0 47	342 35	4,099 6	-2 7	-1 3	205 63	3 0	
4,200 0	0 45	320 88	4,199 6	-2 0	-1 7	219 77	2 6	
4,300 0	0 44	337 85	4,299 6	-1 3	-2 1	236 91	2 5	
4,400 0	0 51	302 89	4,399 6	-0 7	-2 6	253 90	2 7	
4,500 0	0 40	317 94	4,499 6	-0 2	-3 2	265 63	3 2	
4,600 0	0 64	313 67	4,599 6	0 4	-3 8	276 00	3 8	
4,700 0	0 57	323 99	4,699 6	1 2	-4 5	284 75	4 7	
4,800 0	0 49	299 64	4,799 6	1 8	-5 2	289 18	5 5	
4,900 0	0 45	296 36	4,899 6	2 2	-5 9	290 34	6 3	
5,000 0	0 38	335 15	4,999 6	2 7	-6 4	292 61	6 9	
5,100 0	0 51	332 91	5,099 6	3 4	-6 7	296 51	7 5	
5,200 0	0 39	331 24	5,199 6	4 1	-7 1	299 72	8 2	
5,300 0	0 34	302 45	5,299 6	4 5	-7 5	300 97	8 8	
5,400 0	0 62	270 65	5,399 6	4 7	-8 3	299 38	9 5	
5,500 0	0 55	289 63	5,499 6	4 8	-9 3	297 51	10 5	

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	MURCHISON OIL & GAS	Local Co-ordinate Reference:	Well Pequeno Mike "BLU" Federal #4H
Project:	County Line Tank	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Pequeno Mike "BLU" Federal #4H	North Reference:	Grid
Wellbore:	VH - Job #32K12111203	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K12111203	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,600 0	0 56	284 60	5,599 6	5 1	-10 2	296 64	11 4
5,700 0	0 44	294 94	5,699 6	5 4	-11 1	296 11	12 3
5,800 0	0 60	308 25	5,799 6	5 9	-11 8	296 55	13 2
5,900 0	0 27	344 29	5,899 6	6 5	-12 3	297 71	13 9
6,000 0	0 14	26 10	5,999 6	6 8	-12 3	298 91	14 0
6,100 0	0 28	151 20	6,099 6	6 7	-12 1	298 87	13 8
6,200 0	0 38	132 15	6,199 6	6 2	-11 8	297 98	13 3
6,300 0	0 38	127 72	6,299 6	5 8	-11 3	297 36	12 7
6,400 0	0 48	112 32	6,399 6	5 5	-10 6	297 25	11 9
6,480 0	1 00	94 41	6,479 6	5 3	-9 6	298 82	11 0



Scientific Drilling
Directional Drilling Operations

Project: County Line Tank
Eddy County, NM
Well: Pequeno Mike "BLU" Federal #4H
Wellbore: VH - Job #32K12111203
Design: VH - Job #32K12111203

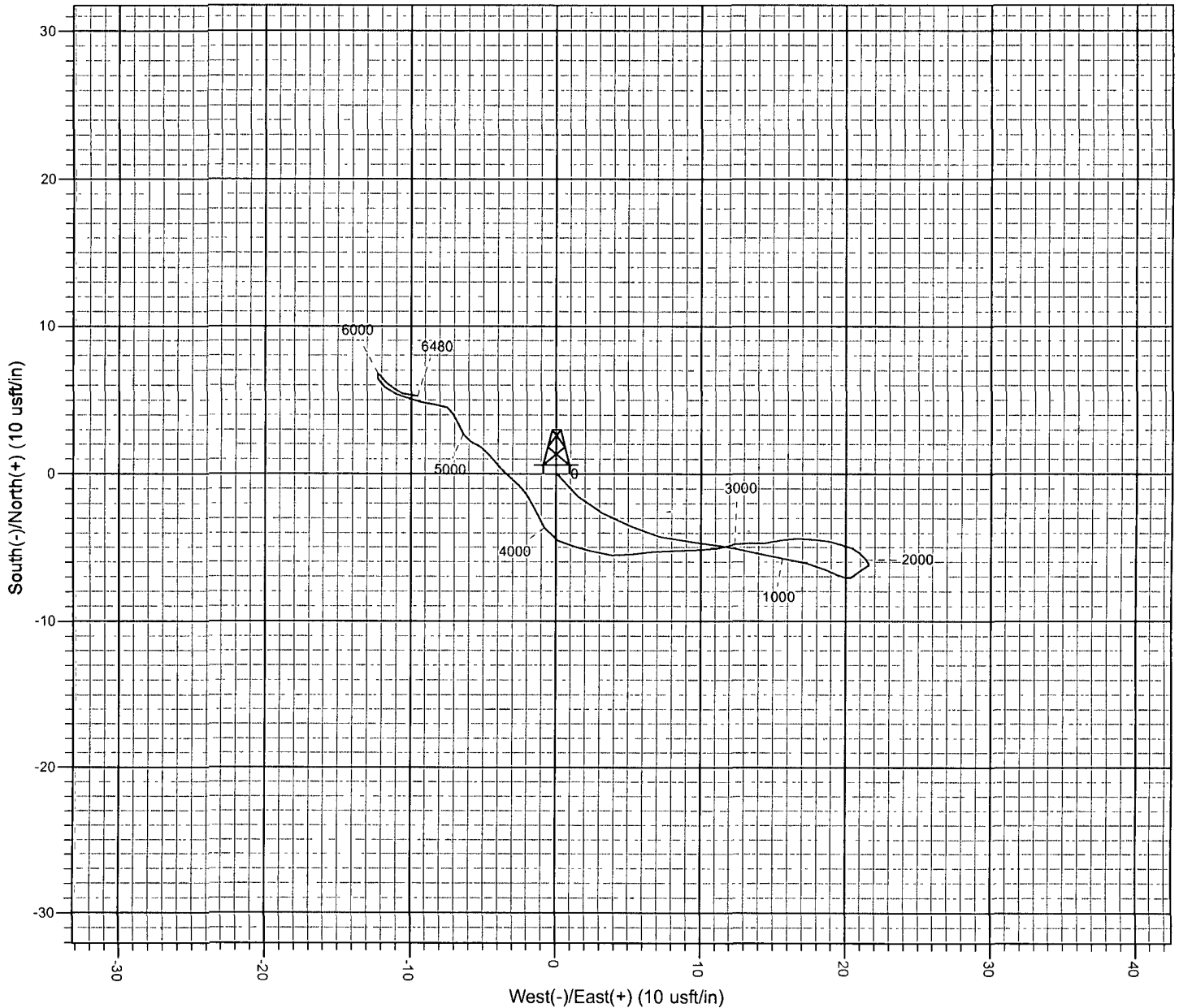


Azimuths to Grid North
True North -0 15°
Magnetic North 7.65°

Magnetic Field
Strength, 48979 9snT
Dip Angle 60 77°
Date 12/11/2011
Model IGRF2010

WELL DETAILS: Pequeno Mike "BLU" Federal #4H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	711462.68	586009.56	32° 57' 20.048 N	104° 3' 10.555 W	



PROJECT DETAILS: County Line Tank
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 32° 57' 13.090 N
Longitude: 104° 3' 12.610 W
Positional Uncertainty: 0.0
Convergence: 0.15
Local North: Grid



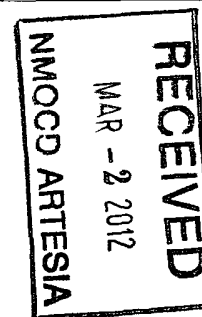
A Schlumberger Company

Job Number: 700004432-WT-WT
Company: Murchison Oil & Gas
Lease/Well: Pequeno Mike BLU Fed #4H
Location: 32° 57' 20.0496N, 104° 3' 10.5535W
Rig Name: McVay Drilling #6
RKB: 22
G.L. or M.S.L.: 3,753.00 us/ft

State/Country: New Mexico,USA
Declination: 7.90
Grid: .15
File name: C:\WINSERVE\4432.SVY
Date/Time: 28-Dec-11 / 01:19
Curve Name: Pathfinder MWD Surveys

Pathfinder Energy Services

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 268.90
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	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
Tie In to SDI Gyro									
6480.00	1.00	94.41	6479.57	5.22	-9.53	9.43	10.87	298.71	.00
6504.00	.97	110.41	6503.57	5.13	-9.13	9.03	10.47	299.34	1.15
6535.00	.26	173.31	6534.56	4.97	-8.88	8.78	10.17	299.25	2.85
6567.00	2.81	267.15	6566.55	4.86	-9.65	9.56	10.81	296.73	8.87
6599.00	5.01	272.11	6598.48	4.87	-11.83	11.74	12.80	292.38	6.95
6631.00	6.60	273.22	6630.31	5.03	-15.06	14.97	15.88	288.46	4.98
6662.00	10.64	271.87	6660.95	5.22	-19.71	19.60	20.39	284.84	13.05
6694.00	14.42	268.99	6692.19	5.25	-26.64	26.54	27.16	281.14	11.97
6726.00	17.06	266.60	6722.98	4.90	-35.32	35.22	35.65	277.90	8.49
6757.00	19.17	266.87	6752.45	4.35	-44.94	44.85	45.15	275.53	6.81
6789.00	22.77	267.66	6782.32	3.81	-56.38	56.29	56.50	273.87	11.28
6820.00	25.94	267.35	6810.56	3.25	-69.15	69.07	69.22	272.69	10.23

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	
6852.00	28.14	267.34	6839.06	2.58	-83.68	83.61	83.72	271.77	6.88
6884.00	30.25	268.52	6866.99	2.02	-99.27	99.22	99.29	271.17	6.83
6916.00	32.80	269.07	6894.27	1.67	-116.00	115.95	116.01	270.83	8.02
6948.00	35.09	269.62	6920.81	1.47	-133.87	133.81	133.88	270.63	7.22
6979.00	37.11	270.32	6945.86	1.46	-152.13	152.07	152.14	270.55	6.65
7011.00	40.01	270.79	6970.88	1.66	-172.07	172.01	172.08	270.55	9.11
7043.00	43.79	270.40	6994.69	1.88	-193.44	193.37	193.45	270.56	11.84
7074.00	46.34	269.86	7016.59	1.93	-215.38	215.31	215.39	270.51	8.32
7106.00	48.98	269.51	7038.14	1.79	-239.03	238.96	239.04	270.43	8.29
7137.00	52.67	269.52	7057.72	1.59	-263.06	262.98	263.07	270.35	11.90
7169.00	56.19	269.49	7076.33	1.37	-289.08	289.00	289.09	270.27	11.00
7201.00	60.06	268.70	7093.22	.93	-316.25	316.17	316.25	270.17	12.27
7233.00	62.96	268.45	7108.49	.23	-344.36	344.30	344.36	270.04	9.09
7264.00	66.04	268.32	7121.83	-.56	-372.33	372.27	372.33	269.91	9.94
7296.00	69.12	268.03	7134.03	-1.50	-401.89	401.85	401.89	269.79	9.66
7328.00	71.67	267.82	7144.77	-2.59	-432.01	431.98	432.02	269.66	7.99
7359.00	72.55	268.35	7154.29	-3.58	-461.50	461.48	461.51	269.56	3.27
7391.00	72.46	267.83	7163.91	-4.59	-492.00	492.00	492.02	269.47	1.58
7423.00	72.28	267.93	7173.60	-5.72	-522.48	522.49	522.51	269.37	.64
7455.00	71.93	268.05	7183.44	-6.79	-552.91	552.94	552.95	269.30	1.15
7486.00	71.93	268.11	7193.05	-7.78	-582.36	582.41	582.42	269.23	.18
7518.00	71.93	268.64	7202.98	-8.64	-612.77	612.83	612.83	269.19	1.57
7550.00	72.90	269.00	7212.65	-9.27	-643.27	643.33	643.34	269.17	3.22
7582.00	76.06	269.80	7221.21	-9.59	-674.10	674.16	674.17	269.18	10.16
7613.00	79.05	269.14	7227.89	-9.87	-704.37	704.43	704.43	269.20	9.87
7643.00	81.17	267.80	7233.04	-10.66	-733.91	733.98	733.98	269.17	8.32
7675.00	84.11	268.72	7237.14	-11.62	-765.62	765.71	765.71	269.13	9.62
7707.00	87.98	268.76	7239.35	-12.33	-797.53	797.62	797.63	269.11	12.09
7738.00	90.56	267.75	7239.74	-13.27	-828.51	828.62	828.62	269.08	8.94
7770.00	91.01	267.99	7239.30	-14.46	-860.49	860.61	860.61	269.04	1.59
7802.00	90.17	268.34	7238.97	-15.48	-892.47	892.60	892.61	269.01	2.84
7834.00	88.54	269.07	7239.33	-16.21	-924.46	924.60	924.60	269.00	5.58
7865.00	87.87	269.37	7240.30	-16.63	-955.44	955.58	955.59	269.00	2.37
7897.00	89.22	268.99	7241.12	-17.09	-987.43	987.57	987.57	269.01	4.38

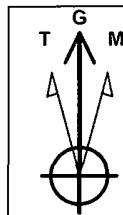
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
7929.00	90.56	267.84	7241.18	-17.97	-1019.41	1019.57	1019.57	268.99	5.52
7960.00	91.23	268.16	7240.69	-19.05	-1050.39	1050.56	1050.56	268.96	2.40
7992.00	90.39	268.91	7240.24	-19.87	-1082.38	1082.56	1082.56	268.95	3.52
8024.00	89.83	269.54	7240.18	-20.30	-1114.37	1114.56	1114.56	268.96	2.63
8056.00	90.17	270.09	7240.18	-20.41	-1146.37	1146.55	1146.55	268.98	2.02
8087.00	90.50	270.03	7240.00	-20.37	-1177.37	1177.55	1177.55	269.01	1.08
8119.00	89.66	270.03	7239.95	-20.36	-1209.37	1209.54	1209.54	269.04	2.62
8151.00	89.50	269.72	7240.19	-20.43	-1241.37	1241.53	1241.54	269.06	1.09
8183.00	89.38	269.88	7240.50	-20.54	-1273.37	1273.53	1273.53	269.08	.62
8215.00	89.27	270.25	7240.88	-20.50	-1305.37	1305.52	1305.53	269.10	1.21
8247.00	89.10	270.19	7241.33	-20.38	-1337.36	1337.51	1337.52	269.13	.56
8279.00	89.33	270.23	7241.77	-20.26	-1369.36	1369.50	1369.51	269.15	.73
8310.00	89.55	270.20	7242.07	-20.15	-1400.36	1400.49	1400.50	269.18	.72
8342.00	89.61	269.80	7242.31	-20.15	-1432.36	1432.48	1432.50	269.19	1.26
8374.00	89.78	270.57	7242.48	-20.04	-1464.36	1464.47	1464.49	269.22	2.46
8406.00	89.44	269.64	7242.70	-19.98	-1496.36	1496.46	1496.49	269.23	3.09
8437.00	89.05	268.82	7243.11	-20.40	-1527.35	1527.46	1527.49	269.23	2.93
8469.00	88.99	268.95	7243.65	-21.02	-1559.34	1559.46	1559.48	269.23	.45
8501.00	88.99	269.50	7244.22	-21.46	-1591.33	1591.45	1591.48	269.23	1.72
8532.00	89.50	269.16	7244.63	-21.82	-1622.33	1622.45	1622.47	269.23	1.98
8564.00	90.22	268.11	7244.70	-22.58	-1654.32	1654.44	1654.47	269.22	3.98
8596.00	91.06	267.68	7244.35	-23.76	-1686.29	1686.44	1686.46	269.19	2.95
8628.00	91.62	266.93	7243.60	-25.26	-1718.25	1718.42	1718.43	269.16	2.92
8659.00	91.57	267.02	7242.74	-26.90	-1749.19	1749.39	1749.40	269.12	.33
8691.00	91.51	266.95	7241.88	-28.58	-1781.14	1781.36	1781.37	269.08	.29
8723.00	91.62	267.18	7241.00	-30.22	-1813.08	1813.33	1813.33	269.05	.80
8754.00	91.74	266.76	7240.09	-31.85	-1844.03	1844.30	1844.30	269.01	1.41
8786.00	91.90	267.46	7239.08	-33.47	-1875.97	1876.27	1876.27	268.98	2.24
8818.00	91.23	267.34	7238.20	-34.92	-1907.92	1908.24	1908.24	268.95	2.13
8850.00	90.45	267.17	7237.73	-36.45	-1939.88	1940.23	1940.23	268.92	2.49
8882.00	90.28	267.60	7237.53	-37.91	-1971.85	1972.21	1972.21	268.90	1.44
8914.00	90.56	268.11	7237.29	-39.11	-2003.83	2004.21	2004.21	268.88	1.82
8945.00	91.40	268.52	7236.76	-40.02	-2034.81	2035.20	2035.20	268.87	3.02
8977.00	91.57	268.82	7235.94	-40.76	-2066.79	2067.19	2067.19	268.87	1.08

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	
9009.00	91.63	269.16	7235.04	-41.33	-2098.77	2099.18	2099.18	268.87	1.08
9040.00	91.63	269.29	7234.16	-41.74	-2129.76	2130.16	2130.16	268.88	.42
9072.00	91.51	269.56	7233.28	-42.07	-2161.74	2162.15	2162.15	268.89	.92
9104.00	91.46	269.90	7232.45	-42.22	-2193.73	2194.14	2194.14	268.90	1.07
9136.00	91.29	269.63	7231.69	-42.35	-2225.72	2226.12	2226.12	268.91	1.00
9168.00	91.57	269.54	7230.89	-42.58	-2257.71	2258.11	2258.11	268.92	.92
9200.00	91.23	269.17	7230.11	-42.94	-2289.70	2290.10	2290.10	268.93	1.57
9231.00	90.62	269.59	7229.61	-43.27	-2320.69	2321.10	2321.10	268.93	2.39
9263.00	89.22	269.58	7229.65	-43.51	-2352.69	2353.09	2353.09	268.94	4.38
9294.00	88.71	269.59	7230.21	-43.73	-2383.68	2384.09	2384.09	268.95	1.65
9326.00	88.88	269.47	7230.88	-43.99	-2415.68	2416.08	2416.08	268.96	.65
9358.00	89.55	269.36	7231.32	-44.32	-2447.67	2448.07	2448.07	268.96	2.12
9386.00	89.96	270.58	7231.44	-44.33	-2475.67	2476.07	2476.07	268.97	4.60
9418.00	90.31	270.61	7231.37	-44.00	-2507.67	2508.05	2508.06	268.99	1.10
9449.00	90.57	270.53	7231.13	-43.69	-2538.67	2539.04	2539.04	269.01	.88
9481.00	90.57	270.71	7230.81	-43.35	-2570.66	2571.02	2571.03	269.03	.56
9517.00	90.28	269.48	7230.54	-43.29	-2606.66	2607.01	2607.02	269.05	3.51
9549.00	90.17	269.53	7230.42	-43.56	-2638.66	2639.01	2639.02	269.05	.38
9580.00	90.11	269.43	7230.34	-43.85	-2669.66	2670.01	2670.02	269.06	.38
9612.00	90.11	269.76	7230.28	-44.07	-2701.66	2702.01	2702.02	269.07	1.03
9643.00	90.45	269.20	7230.13	-44.35	-2732.66	2733.00	2733.02	269.07	2.11
9675.00	90.62	268.82	7229.83	-44.91	-2764.65	2765.00	2765.01	269.07	1.30
9706.00	90.50	268.49	7229.53	-45.63	-2795.64	2796.00	2796.01	269.06	1.13
9738.00	90.62	268.22	7229.21	-46.55	-2827.62	2828.00	2828.01	269.06	.92
9769.00	91.06	268.37	7228.76	-47.47	-2858.61	2858.99	2859.00	269.05	1.50
9801.00	91.51	268.24	7228.04	-48.42	-2890.59	2890.98	2890.99	269.04	1.46
9833.00	91.23	268.01	7227.28	-49.47	-2922.56	2922.97	2922.98	269.03	1.13
9865.00	91.51	268.57	7226.51	-50.42	-2954.54	2954.96	2954.97	269.02	1.96
9896.00	92.18	268.49	7225.51	-51.22	-2985.51	2985.94	2985.95	269.02	2.18
9927.00	92.63	268.36	7224.21	-52.07	-3016.47	3016.91	3016.92	269.01	1.51
9959.00	92.80	268.41	7222.70	-52.97	-3048.42	3048.88	3048.88	269.00	.55
9990.00	93.14	268.55	7221.09	-53.79	-3079.37	3079.83	3079.84	269.00	1.19
10022.00	93.42	268.88	7219.26	-54.51	-3111.31	3111.78	3111.79	269.00	1.35
10054.00	92.41	268.76	7217.63	-55.17	-3143.26	3143.74	3143.74	268.99	3.18

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	
10086.00	91.51	268.82	7216.54	-55.84	-3175.23	3175.72	3175.72	268.99	2.82
10117.00	90.17	268.69	7216.08	-56.51	-3206.22	3206.72	3206.72	268.99	4.34
10149.00	90.95	269.24	7215.77	-57.09	-3238.21	3238.71	3238.72	268.99	2.98
10181.00	91.06	269.30	7215.21	-57.50	-3270.21	3270.71	3270.71	268.99	.39
10212.00	91.01	269.32	7214.65	-57.87	-3301.20	3301.70	3301.71	269.00	.17
10244.00	91.12	269.11	7214.05	-58.31	-3333.19	3333.70	3333.70	269.00	.74
10276.00	91.29	269.62	7213.38	-58.67	-3365.18	3365.69	3365.69	269.00	1.68
10307.00	91.46	269.88	7212.64	-58.80	-3396.17	3396.68	3396.68	269.01	1.00
10338.00	91.12	269.00	7211.94	-59.10	-3427.16	3427.67	3427.67	269.01	3.04
10370.00	91.23	268.83	7211.28	-59.71	-3459.15	3459.66	3459.67	269.01	.63
10401.00	91.23	269.37	7210.62	-60.20	-3490.14	3490.65	3490.66	269.01	1.74
10433.00	91.29	269.22	7209.91	-60.59	-3522.13	3522.64	3522.65	269.01	.50
10465.00	90.56	268.46	7209.40	-61.24	-3554.12	3554.64	3554.65	269.01	3.29
10497.00	90.56	268.23	7209.08	-62.16	-3586.10	3586.64	3586.64	269.01	.72
10529.00	90.67	268.85	7208.74	-62.98	-3618.09	3618.63	3618.64	269.00	1.97
10561.00	90.84	268.53	7208.32	-63.71	-3650.08	3650.63	3650.64	269.00	1.13
10592.00	90.84	268.74	7207.87	-64.45	-3681.07	3681.63	3681.63	269.00	.68
10624.00	91.12	268.48	7207.32	-65.22	-3713.05	3713.62	3713.63	268.99	1.19
10656.00	89.94	268.45	7207.02	-66.08	-3745.04	3745.62	3745.62	268.99	3.69
10687.00	89.50	268.76	7207.17	-66.84	-3776.03	3776.62	3776.62	268.99	1.74
10718.00	89.78	268.83	7207.37	-67.49	-3807.02	3807.62	3807.62	268.98	.93
10749.00	89.89	268.69	7207.46	-68.16	-3838.02	3838.62	3838.62	268.98	.57
10781.00	89.66	268.70	7207.58	-68.89	-3870.01	3870.62	3870.62	268.98	.72
10813.00	89.22	268.51	7207.90	-69.67	-3902.00	3902.61	3902.62	268.98	1.50
10844.00	89.16	268.78	7208.33	-70.40	-3932.98	3933.61	3933.61	268.97	.89
10876.00	89.78	268.52	7208.63	-71.15	-3964.97	3965.61	3965.61	268.97	2.10
10908.00	90.62	268.90	7208.52	-71.87	-3996.97	3997.61	3997.61	268.97	2.88
10939.00	91.51	268.52	7207.94	-72.57	-4027.95	4028.60	4028.61	268.97	3.12
10971.00	91.74	267.84	7207.03	-73.59	-4059.92	4060.59	4060.59	268.96	2.24
11003.00	91.96	268.02	7206.00	-74.74	-4091.88	4092.57	4092.57	268.95	.89
11035.00	92.07	268.23	7204.88	-75.79	-4123.85	4124.54	4124.54	268.95	.74
11067.00	92.13	268.55	7203.70	-76.69	-4155.81	4156.52	4156.52	268.94	1.02
11098.00	92.13	268.56	7202.55	-77.47	-4186.78	4187.50	4187.50	268.94	.03
11130.00	92.01	268.60	7201.40	-78.26	-4218.75	4219.48	4219.48	268.94	.40

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	
11162.00	92.07	268.36	7200.26	-79.11	-4250.72	4251.46	4251.46	268.93	.77
11194.00	91.90	268.14	7199.15	-80.09	-4282.69	4283.43	4283.43	268.93	.87
11225.00	91.85	268.41	7198.13	-81.02	-4313.66	4314.42	4314.42	268.92	.89
11257.00	91.90	268.24	7197.09	-81.95	-4345.62	4346.40	4346.40	268.92	.55
11289.00	91.79	268.31	7196.06	-82.92	-4377.59	4378.38	4378.38	268.91	.41
11320.00	91.51	268.29	7195.16	-83.83	-4408.57	4409.36	4409.36	268.91	.91
11352.00	91.74	268.45	7194.26	-84.74	-4440.54	4441.35	4441.35	268.91	.88
11383.00	91.79	268.38	7193.30	-85.60	-4471.51	4472.33	4472.33	268.90	.28
11415.00	91.90	269.09	7192.27	-86.31	-4503.49	4504.32	4504.32	268.90	2.24
11447.00	91.79	269.14	7191.24	-86.80	-4535.47	4536.30	4536.30	268.90	.38
11479.00	92.07	268.92	7190.16	-87.34	-4567.45	4568.28	4568.28	268.90	1.11
11510.00	92.18	268.66	7189.01	-88.00	-4598.42	4599.26	4599.26	268.90	.91
11542.00	92.35	268.39	7187.75	-88.82	-4630.38	4631.23	4631.23	268.90	1.00
11573.00	92.41	268.80	7186.46	-89.58	-4661.35	4662.21	4662.21	268.90	1.34
11604.00	92.58	268.85	7185.11	-90.21	-4692.31	4693.18	4693.18	268.90	.57
11636.00	92.52	268.89	7183.69	-90.85	-4724.27	4725.15	4725.15	268.90	.23
11668.00	92.46	268.78	7182.30	-91.50	-4756.24	4757.12	4757.12	268.90	.39
11700.00	92.02	268.72	7181.05	-92.19	-4788.20	4789.09	4789.09	268.90	1.39
11731.00	91.96	268.73	7179.97	-92.88	-4819.18	4820.07	4820.07	268.90	.20
11763.00	92.02	268.35	7178.86	-93.70	-4851.15	4852.05	4852.05	268.89	1.20
11795.00	91.90	268.32	7177.77	-94.63	-4883.12	4884.03	4884.03	268.89	.39
11827.00	91.62	268.62	7176.78	-95.48	-4915.09	4916.02	4916.02	268.89	1.28
11858.00	91.57	268.49	7175.92	-96.26	-4946.07	4947.00	4947.00	268.89	.45
11890.00	91.85	268.31	7174.97	-97.15	-4978.04	4978.99	4978.99	268.88	1.04
11922.00	92.07	268.05	7173.87	-98.17	-5010.01	5010.97	5010.97	268.88	1.06
11953.00	92.13	268.21	7172.73	-99.18	-5040.97	5041.94	5041.94	268.87	.55
3.40 Left, .45 Above									
11984.00	92.18	268.38	7171.57	-100.10	-5071.93	5072.92	5072.92	268.87	.57
EOW									
12042.00	92.18	268.38	7169.36	-101.74	-5129.87	5130.88	5130.88	268.86	.00

Project: Eddy County (NAD27)
Site: Pequeno Mike "BLU" Federal
Well: #4H
Wellbore: OH
Design: OH (#4H/OH)

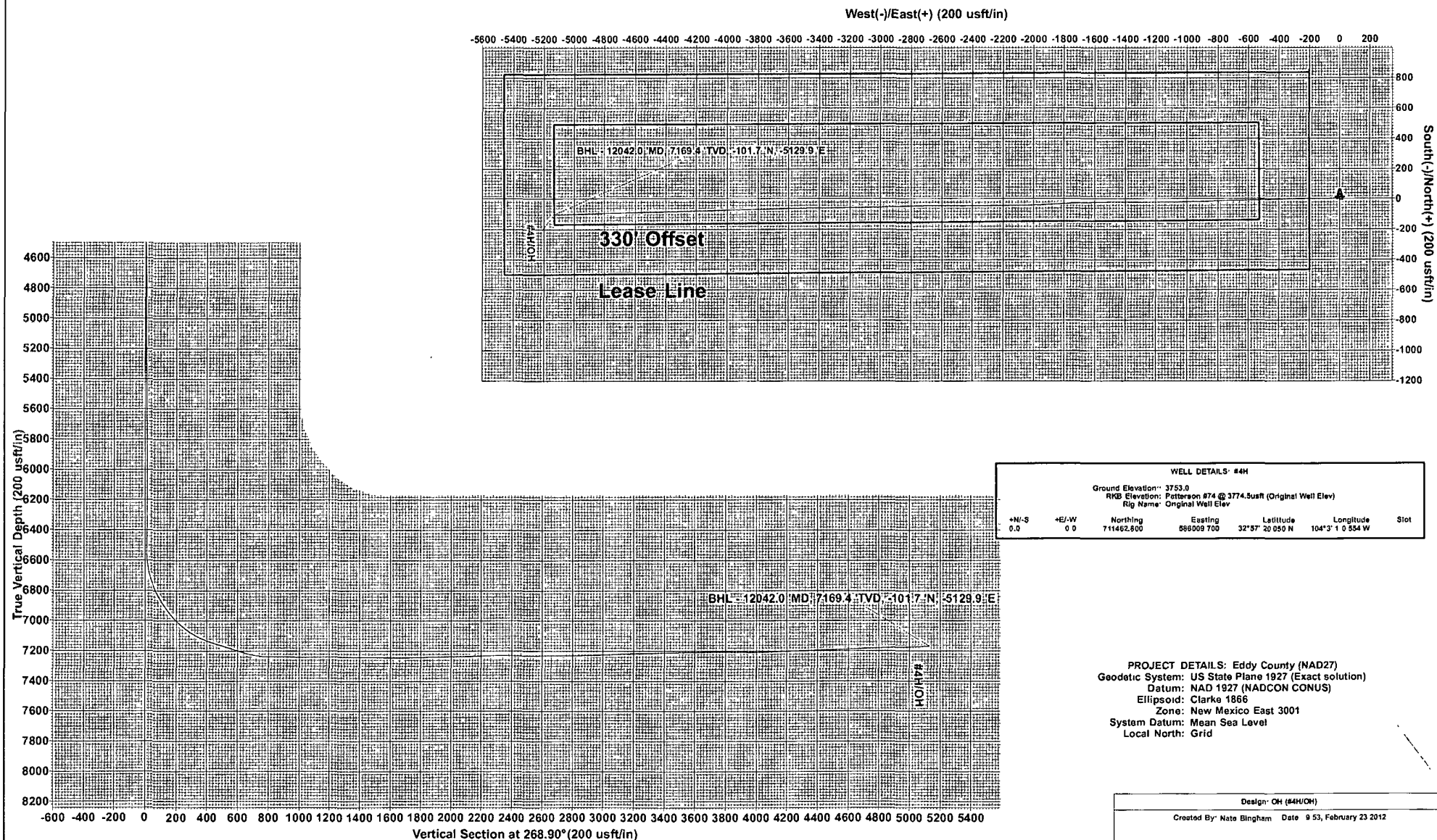


Azimuths to Grid North
True North: -0.15°
Magnetic North: 7.74°

Magnetic Field
Strength: 49072.2snT
Dip Angle: 60.81°
Date: 1/30/2011
Model: IGRF200510

PATHFINDER®

A Schlumberger Company



**McVAY DRILLING COMPANY**

P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 39-DRILL

Well Name and Num: Pequeno Mike BLU Federal 4 H

Location: Sec. 2, T16S, R29E

Operator: Murchison

Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
0.42	193	0.40	3802	0.26	6535	90.10	7802
1.69	400	0.10	4015	5.00	6599	89.83	8024
1.40	437	0.30	4111	6.60	6634	90.17	8056
0.60	7766	0.20	4185	19.20	6757	89.50	8532
1.30	1093	0.50	4587	30.25	6884	91.62	8628
1.10	1179	0.20	4863	32.80	6915	91.23	8818
0.80	1657	0.20	5045	37.11	6979	91.46	9103
0.30	2134	0.40	5255	43.79	7043	90.31	9118
0.40	2325	0.10	5628	46.34	7074	90.28	9517
0.20	2421	0.40	5725	56.19	7169	90.17	9549
0.60	2611	0.20	6013	66.24	7264	90.11	9580
0.90	2773	0.90	6394	69.12	7296	90.45	9643
0.10	2869	1.10	6599	72.46	7391	91.06	9769
0.30	2964	1.60	7016	71.93	7518	92.80	9959
0.90	3039	1.00	7257	76.06	7582	92.40	10054
1.00	3346	1.10	7320	79.05	7613	91.10	10244
0.40	3632	0.97	6504	81.20	7643	90.70	10529

**McVAY DRILLING COMPANY**

P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 39-DRILL

Well Name and Num: Pequeno Mike BLU Federal 4 H
Location: Sec. 2, T16S, R29E
Operator: Murchison
Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>
90.80	10592
91.10	10624
89.78	10782
91.90	11134
92.07	12479
92.02	11763
92.18	11984

By: Hector Cruz

Subscribed and sworn to before me this 9th day of January, 2012

Tina Flemens
Notary Public, Lea County, New Mexico

