

Results of Directional Survey

API number:	30-025-41030		
OGRID:		Operator:	MURCHISON OIL & GAS INC
		Property:	BRININSTOOL 4 STATE # 3H

surface	ULSTR:	M	04	T	24S	R	33E
				200	FSL	150	FWL

BH Loc	ULSTR:	D	04	T	24S	R	33E
15670	MD	11210.4	TVD	332	FNL	315	FWL
				4939	FSL		

5271

Top Perf/OH	ULSTR:	M	04	T	24S	R	33E
11488	MD	11224.3	TVD	758	FSL	340	FWL

Bot Perf/OH	ULSTR:	D	04	T	24S	R	33E
15600	MD	11212.3	TVD	402	FNL	316	FWL
				4869	FSL		

	MD	N/S	E/W	VD
	11460	530.20	189.70	11220.7
TOP PERFS/OH	11488	557.94	190.23	11224.29
	11492	561.90	190.30	11224.80
	15556	4624.70	166.30	11213.10
BOT PERFS/OH	15600	4668.70	165.91	11212.26
	15624	4692.70	165.70	11211.80

NEXT TO LAST	15624	4692.70	165.70	11211.80
LAST READING	15670	4738.60	165.20	11210.40
TD	15670	4738.60	165.20	11210.40

Surface Location	200	FS	150	FW
Projected BHL	4939	FS	315	FW
Location of				
Top Perfs/OH	758	FS	340	FW
Bottom Perfs/OH	4869	FS	316	FW

SUMMARY of Subsurface Locations

Surface Location	M-04-24S-33E	200	FS	150	FW	Vert. Depth
Top Perfs/OH	M-04-24S-33E	758	FS	340	FW	11224.29
Bottom Perfs/OH	D-04-24S-33E	4869	FS	316	FW	11212.26
Projected TD	D-04-24S-33E	4939	FS	315	FW	11210.40

DEC 30 2013

Murchison Oil and Gas

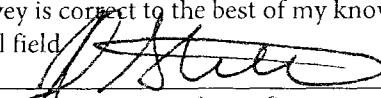
Jackson Unit Section 4

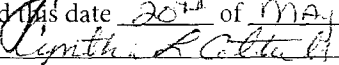
Brininstool 4 State #3

FINAL Survey: Brininstool 4 State #3

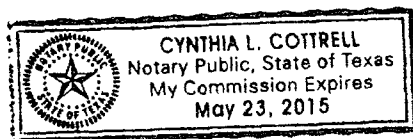
MOJO Standard Survey

16 May, 2013

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

Notarized this date 20th of MAY,
2013.  Notary

Signature County of Collin State of Texas



Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Brininstool 4 Slate #3
Project:	Jackson Unit Section 4	TVD Reference:	RKB @ 3658.3usft
Site:	Brininstool 4 Slate #3	MD Reference:	RKB @ 3658.3usft
Well:	Brininstool 4 State #3	North Reference:	Grid
Wellbore:	Brininstool 4 State #3	Survey Calculation Method:	Minimum Curvature
Design:	Brininstool 4 State #3	Database:	EDM 5000.1 Single User Db
Project:	Jackson Unit Section 4		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Brininstool 4 State #3		
Site Position:		Northing:	451,842.84 usft
From:	Lat/Long	Easting:	772,612.34 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 23.920 N
		Longitude:	103° 35' 7.120 W
		Grid Convergence:	0.40 "

Well:	Brininstool 4 State #3					
Well Position	+N/-S	0.0 usft	Northing:	451,842.84 usft	Latitude:	32° 14' 23.920 N
	+E/-W	0.0 usft	Easting:	772,612.34 usft	Longitude:	103° 35' 7.120 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,636.3 usft

Wellbore:	Brininstool 4 State #3				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	29/01/2013	7.39	60.16	48,460

Design: Brininstool 4 State #3				
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	N-S	E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	2.00

Survey Program	Date	16/05/2013		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	15,670.0	Brininstool 4 State #3	MWD	MWD - Standard

Company	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Brininstool 4 State #3
Project	Jackson Unit Section 4	TVD Reference:	RKB @ 3658.3usft
Site	Brininstool 4 State #3	MD Reference:	RKB @ 3658.3usft
Well	Brininstool 4 State #3	North Reference:	Grid
Wellbore	Brininstool 4 State #3	Survey Calculation Method	Minimum Curvature
Design	Brininstool 4 State #3	Database	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V: Sec (usft)	DLeg (1/100usft)	Northing (usft)	Easting (usft)
0.0	0.00	0.00	0.0	-3,658.3	0.0	0.0	0.0	0.00	451,842.84	772,612.34
100.0	0.66	168.83	100.0	-3,558.3	-0.6	0.1	-0.6	0.66	451,842.28	772,612.45
200.0	0.67	159.84	200.0	-3,458.3	-1.7	0.4	-1.7	0.10	451,841.16	772,612.76
300.0	0.71	158.92	300.0	-3,358.3	-2.8	0.8	-2.8	0.04	451,840.04	772,613.19
400.0	0.45	158.81	400.0	-3,258.3	-3.8	1.2	-3.7	0.26	451,839.09	772,613.55
500.0	0.19	189.55	500.0	-3,158.3	-4.3	1.3	-4.2	0.30	451,838.56	772,613.66
600.0	0.27	215.24	600.0	-3,058.3	-4.6	1.2	-4.6	0.13	451,838.21	772,613.50
700.0	0.19	195.14	700.0	-2,958.3	-5.0	1.0	-5.0	0.11	451,837.85	772,613.32
800.0	0.10	309.99	800.0	-2,858.3	-5.1	0.9	-5.1	0.25	451,837.75	772,613.21
900.0	0.31	305.56	900.0	-2,758.3	-4.9	0.6	-4.9	0.21	451,837.96	772,612.93
1,000.0	0.48	285.03	1,000.0	-2,658.3	-4.6	0.0	-4.6	0.22	451,838.23	772,612.30
1,100.0	0.49	270.96	1,100.0	-2,558.3	-4.5	-0.9	-4.5	0.12	451,838.34	772,611.47
1,200.0	0.43	258.01	1,200.0	-2,458.3	-4.6	-1.7	-4.6	0.12	451,838.27	772,610.67
1,300.0	0.24	257.06	1,300.0	-2,358.3	-4.7	-2.2	-4.8	0.19	451,838.15	772,610.10
1,337.0	0.26	302.17	1,337.0	-2,321.3	-4.7	-2.4	-4.7	0.52	451,838.18	772,609.96
13 3/8"										
1,400.0	0.51	336.76	1,400.0	-2,258.3	-4.3	-2.6	-4.4	0.52	451,838.51	772,609.72
1,500.0	1.11	327.39	1,500.0	-2,158.3	-3.1	-3.3	-3.2	0.61	451,839.74	772,609.03
1,600.0	0.87	322.21	1,599.9	-2,058.4	-1.7	-4.3	-1.8	0.26	451,841.15	772,608.04
1,700.0	0.43	313.45	1,699.9	-1,958.4	-0.8	-5.0	-1.0	0.45	451,842.01	772,607.30
1,800.0	0.43	304.61	1,799.9	-1,858.4	-0.4	-5.6	-0.6	0.07	451,842.48	772,606.72
1,900.0	0.63	300.60	1,899.9	-1,758.4	0.1	-6.4	-0.1	0.20	451,842.97	772,605.94
2,000.0	0.73	292.87	1,999.9	-1,658.4	0.7	-7.5	0.4	0.14	451,843.50	772,604.88
2,100.0	0.62	277.83	2,099.9	-1,558.4	1.0	-8.6	0.7	0.21	451,843.82	772,603.75
2,200.0	0.41	302.86	2,199.9	-1,458.4	1.2	-9.4	0.9	0.30	451,844.09	772,602.92
2,300.0	0.47	315.72	2,299.9	-1,358.4	1.7	-10.0	1.4	0.12	451,844.58	772,602.33
2,400.0	0.54	302.78	2,399.9	-1,258.4	2.3	-10.7	1.9	0.13	451,845.13	772,601.65

Company: Murchison Oil and Gas
Project: Jackson Unit Section 4
Site: Brininstool 4 State #3
Well: Brininstool 4 State #3
Wellbore: Brininstool 4 State #3
Design: Brininstool 4 State #3

Local Co-ordinate Reference: Site Brininstool 4 State #3
TVD Reference: RKB @ 3658.3usft
MD Reference: RKB @ 3658.3usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,500.0	0.37	286.52	2,499.9	-1,158.4	2.6	-11.4	2.2	0.21	451,845.47	772,600.94
2,600.0	0.21	353.16	2,599.9	-1,058.4	2.9	-11.7	2.5	0.35	451,845.75	772,600.61
2,700.0	0.51	0.71	2,699.9	-958.4	3.5	-11.7	3.1	0.30	451,846.37	772,600.59
2,800.0	0.62	337.04	2,799.9	-858.4	4.5	-11.9	4.1	0.26	451,847.32	772,600.39
2,900.0	0.39	347.52	2,899.9	-758.4	5.3	-12.2	4.9	0.25	451,848.15	772,600.10
3,000.0	0.51	25.27	2,999.9	-658.4	6.0	-12.1	5.6	0.31	451,848.88	772,600.22
3,100.0	0.81	13.11	3,099.9	-558.4	7.1	-11.8	6.7	0.33	451,849.97	772,600.57
3,200.0	0.98	3.41	3,199.9	-458.4	8.7	-11.6	8.3	0.23	451,851.52	772,600.78
3,300.0	0.75	12.09	3,299.8	-358.5	10.2	-11.4	9.8	0.26	451,853.01	772,600.97
3,400.0	1.09	23.11	3,399.8	-258.5	11.7	-10.9	11.3	0.38	451,854.52	772,601.48
3,500.0	1.30	18.09	3,499.8	-158.5	13.6	-10.1	13.3	0.23	451,856.48	772,602.21
3,600.0	1.27	6.28	3,599.8	-58.5	15.8	-9.7	15.5	0.27	451,858.66	772,602.68
3,700.0	0.96	11.62	3,699.8	41.5	17.7	-9.4	17.4	0.33	451,860.58	772,602.97
3,800.0	0.89	8.51	3,799.8	141.5	19.3	-9.1	19.0	0.09	451,862.17	772,603.25
3,900.0	0.31	102.67	3,899.8	241.5	20.0	-8.7	19.7	0.96	451,862.88	772,603.63
4,000.0	0.76	156.67	3,999.7	341.4	19.4	-8.2	19.1	0.63	451,862.21	772,604.16
4,100.0	0.89	146.14	4,099.7	441.4	18.1	-7.5	17.8	0.20	451,860.95	772,604.85
4,200.0	0.92	138.31	4,199.7	541.4	16.9	-6.5	16.6	0.13	451,859.71	772,605.82
4,300.0	0.96	95.49	4,299.7	641.4	16.2	-5.1	16.0	0.69	451,859.03	772,607.19
4,400.0	2.11	94.14	4,399.7	741.4	16.0	-2.5	15.9	1.15	451,858.82	772,609.86
4,500.0	2.96	103.89	4,499.6	841.3	15.2	1.9	15.3	0.95	451,858.06	772,614.20
4,600.0	2.65	105.17	4,599.5	941.2	14.0	6.6	14.2	0.32	451,856.84	772,618.94
4,700.0	3.18	102.54	4,699.3	1,041.0	12.8	11.5	13.2	0.55	451,855.63	772,623.88
4,800.0	3.49	103.27	4,799.2	1,140.9	11.5	17.2	12.1	0.31	451,854.33	772,629.55
4,900.0	3.05	101.96	4,899.0	1,240.7	10.2	22.8	11.0	0.45	451,853.08	772,635.11
5,000.0	1.75	103.11	4,998.9	1,340.6	9.3	26.9	10.3	1.30	451,852.18	772,639.20
5,015.0	1.72	102.64	5,013.9	1,355.6	9.2	27.3	10.2	0.22	451,852.08	772,639.65

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Brininstool 4 State #3
Project:	Jackson Unit Section 4	TVD Reference:	RKB @ 3658.3usft
Site:	Brininstool 4 State #3	MD Reference:	RKB @ 3658.3usft
Well:	Brininstool 4 State #3	North Reference:	Grid
Wellbore:	Brininstool 4 State #3	Survey Calculation Method:	Minimum Curvature
Design:	Brininstool 4 State #3	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
5,173.0	1.19	97.64	5,171.8	1,513.5	8.5	31.2	9.6	0.35	451,851.35	772,643.58
9 5/8"										
5,291.0	0.80	89.60	5,289.8	1,631.5	8.3	33.3	9.5	0.35	451,851.19	772,645.61
5,483.0	1.00	82.50	5,481.8	1,823.5	8.6	36.3	9.8	0.12	451,851.42	772,648.62
5,675.0	1.30	87.80	5,673.8	2,015.5	8.9	40.1	10.3	0.17	451,851.72	772,652.45
5,867.0	1.10	84.00	5,865.7	2,207.4	9.2	44.1	10.7	0.11	451,852.00	772,656.46
6,060.0	1.10	99.30	6,058.7	2,400.4	9.0	47.8	10.7	0.15	451,851.89	772,660.13
6,253.0	0.90	94.90	6,251.7	2,593.4	8.6	51.1	10.4	0.11	451,851.46	772,663.47
6,443.0	0.90	91.80	6,441.6	2,783.3	8.4	54.1	10.3	0.03	451,851.29	772,666.45
6,635.0	1.00	89.80	6,633.6	2,975.3	8.4	57.3	10.4	0.05	451,851.25	772,669.63
6,827.0	0.40	324.40	6,825.6	3,167.3	9.0	58.6	11.0	0.66	451,851.80	772,670.92
7,019.0	0.50	304.80	7,017.6	3,359.3	10.0	57.5	12.0	0.09	451,852.82	772,669.84
7,212.0	0.40	279.50	7,210.6	3,552.3	10.6	56.1	12.5	0.11	451,853.41	772,668.48
7,404.0	0.50	241.70	7,402.6	3,744.3	10.3	54.7	12.2	0.16	451,853.12	772,667.08
7,500.0	0.60	237.30	7,498.6	3,840.3	9.8	54.0	11.7	0.11	451,852.65	772,666.29
7,596.0	0.60	233.70	7,594.6	3,936.3	9.2	53.1	11.1	0.04	451,852.09	772,665.46
7,789.0	0.30	305.30	7,787.6	4,129.3	8.9	51.9	10.7	0.30	451,851.78	772,664.24
7,981.0	0.30	219.70	7,979.6	4,321.3	8.8	51.2	10.6	0.21	451,851.68	772,663.51
8,173.0	0.70	195.80	8,171.6	4,513.3	7.3	50.5	9.1	0.23	451,850.17	772,662.87
8,365.0	0.50	197.60	8,363.6	4,705.3	5.4	50.0	7.1	0.10	451,848.24	772,662.29
8,556.0	1.00	174.90	8,554.5	4,896.2	2.9	49.9	4.7	0.30	451,845.79	772,662.19
8,940.0	1.10	186.20	8,938.5	5,280.2	-4.1	49.8	-2.3	0.06	451,838.78	772,662.09
9,004.0	1.20	169.40	9,002.5	5,344.2	-5.3	49.8	-3.6	0.55	451,837.51	772,662.15
9,036.0	1.60	158.60	9,034.4	5,376.1	-6.1	50.0	-4.3	1.49	451,836.77	772,662.37
9,068.0	2.30	154.10	9,066.4	5,408.1	-7.1	50.5	-5.3	2.24	451,835.78	772,662.81
9,100.0	3.40	146.90	9,098.4	5,440.1	-8.4	51.3	-6.6	3.61	451,834.40	772,663.61
9,132.0	4.00	140.10	9,130.3	5,472.0	-10.1	52.5	-8.3	2.32	451,832.75	772,664.85

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Brininstool 4 State #3
Project:	Jackson Unit Section 4	TVD Reference:	RKB @ 3658.3usft
Site:	Brininstool 4 State #3	MD Reference:	RKB @ 3658.3usft
Well:	Brininstool 4 State #3	North Reference:	Grid
Wellbore:	Brininstool 4 State #3	Survey Calculation Method:	Minimum Curvature
Design:	Brininstool 4 State #3	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V-Sec (usft)	DLeg (*/100usft)	Northing (usft)	Easting (usft)
9,163.0	3.90	140.80	9,161.2	5,502.9	-11.7	53.9	-9.8	0.36	451,831.11	772,666.21
9,196.0	4.10	147.60	9,194.2	5,535.9	-13.6	55.2	-11.7	1.56	451,829.24	772,667.55
9,228.0	4.60	142.70	9,226.1	5,567.8	-15.6	56.6	-13.6	1.95	451,827.25	772,668.94
9,260.0	5.10	136.40	9,258.0	5,599.7	-17.6	58.4	-15.6	2.28	451,825.20	772,670.70
9,292.0	5.40	141.80	9,289.8	5,631.5	-19.9	60.3	-17.7	1.81	451,822.99	772,672.61
9,324.0	5.80	142.70	9,321.7	5,663.4	-22.3	62.2	-20.1	1.28	451,820.52	772,674.52
9,356.0	6.20	133.50	9,353.5	5,695.2	-24.8	64.4	-22.5	3.25	451,818.04	772,676.75
9,388.0	6.40	120.60	9,385.3	5,727.0	-26.9	67.2	-24.5	4.46	451,815.95	772,679.54
9,420.0	6.60	112.50	9,417.1	5,758.8	-28.5	70.4	-26.0	2.93	451,814.34	772,682.78
9,452.0	6.60	111.10	9,448.9	5,790.6	-29.9	73.9	-27.3	0.50	451,812.97	772,686.19
9,485.0	6.90	111.50	9,481.7	5,823.4	-31.3	77.5	-28.6	0.92	451,811.56	772,689.81
9,517.0	6.50	111.90	9,513.4	5,855.1	-32.7	80.9	-29.8	1.26	451,810.18	772,693.27
9,550.0	6.00	114.60	9,546.2	5,887.9	-34.1	84.2	-31.1	1.76	451,808.77	772,696.58
9,582.0	5.90	116.80	9,578.1	5,919.8	-35.5	87.2	-32.4	0.78	451,807.33	772,699.56
9,614.0	6.20	113.90	9,609.9	5,951.6	-37.0	90.3	-33.8	1.34	451,805.89	772,702.61
9,646.0	6.30	115.40	9,641.7	5,983.4	-38.4	93.4	-35.1	0.60	451,804.43	772,705.78
9,678.0	6.20	111.10	9,673.5	6,015.2	-39.8	96.6	-36.4	1.50	451,803.06	772,708.98
9,710.0	6.80	103.40	9,705.3	6,047.0	-40.8	100.1	-37.3	3.30	451,802.00	772,712.43
9,742.0	6.80	101.10	9,737.1	6,078.8	-41.6	103.8	-38.0	0.85	451,801.19	772,716.13
9,774.0	6.20	100.20	9,768.9	6,110.6	-42.3	107.4	-38.5	1.90	451,800.52	772,719.69
9,806.0	5.60	100.90	9,800.7	6,142.4	-42.9	110.6	-39.0	1.89	451,799.92	772,722.93
9,839.0	5.70	104.90	9,833.6	6,175.3	-43.6	113.8	-39.6	1.23	451,799.19	772,726.09
9,865.0	6.10	106.90	9,859.4	6,201.1	-44.4	116.3	-40.3	1.73	451,798.46	772,728.66
9,897.0	6.30	110.00	9,891.2	6,232.9	-45.5	119.6	-41.3	1.22	451,797.37	772,731.94
9,929.0	6.30	110.70	9,923.0	6,264.7	-46.7	122.9	-42.4	0.24	451,796.15	772,735.23
9,962.0	7.30	109.70	9,955.8	6,297.5	-48.0	126.6	-43.6	3.05	451,794.80	772,738.90
9,994.0	8.40	108.00	9,987.5	6,329.2	-49.5	130.7	-44.9	3.51	451,793.39	772,743.03

Company: Murchison Oil and Gas
 Project: Jackson Unit Section 4
 Site: Brininstool 4 State #3
 Well: Brininstool 4 State #3
 Wellbore: Brininstool 4 State #3
 Design: Brininstool 4 State #3

Local Co-ordinate Reference:
 TVD Reference: RKB @ 3658.3usft
 MD Reference: RKB @ 3658.3usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

MD (usm)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (ft/100usft)	Northing (usft)	Easting (usft)
10,026.0	9.00	102.10	10,019.1	6,360.8	-50.7	135.4	-45.9	3.36	451,792.14	772,747.71
10,057.0	8.90	101.10	10,049.8	6,391.5	-51.7	140.1	-46.7	0.60	451,791.17	772,752.43
10,089.0	8.60	100.90	10,081.4	6,423.1	-52.6	144.9	-47.5	0.94	451,790.24	772,757.21
10,121.0	9.10	100.50	10,113.0	6,454.7	-53.5	149.7	-48.3	1.57	451,789.33	772,762.05
10,153.0	9.80	94.50	10,144.6	6,486.3	-54.2	154.9	-48.7	3.77	451,788.66	772,767.25
10,186.0	9.60	90.20	10,177.1	6,518.8	-54.4	160.5	-48.8	2.28	451,788.43	772,772.80
10,217.0	9.60	83.50	10,207.7	6,549.4	-54.1	165.6	-48.3	3.60	451,788.71	772,777.95
10,249.0	10.50	73.20	10,239.2	6,580.9	-53.0	171.1	-47.0	6.27	451,789.86	772,783.40
10,282.0	12.00	65.90	10,271.5	6,613.2	-50.7	177.1	-44.5	6.26	451,792.13	772,789.41
10,313.0	12.90	61.00	10,301.8	6,643.5	-47.7	183.0	-41.3	4.47	451,795.12	772,795.38
10,346.0	13.10	52.80	10,334.0	6,675.7	-43.7	189.2	-37.0	5.62	451,799.17	772,801.58
10,378.0	13.50	42.60	10,365.1	6,706.8	-38.7	194.7	-31.9	7.43	451,804.11	772,806.99
10,410.0	14.10	32.60	10,396.2	6,737.9	-32.7	199.3	-25.7	7.68	451,810.14	772,811.62
10,442.0	14.80	25.70	10,427.2	6,768.9	-25.7	203.2	-18.6	5.80	451,817.11	772,815.50
10,474.0	15.60	17.60	10,458.1	6,799.8	-17.9	206.2	-10.7	7.09	451,824.90	772,818.57
10,506.0	15.80	10.10	10,488.9	6,830.6	-9.6	208.3	-2.3	6.37	451,833.29	772,820.64
10,538.0	16.50	4.30	10,519.6	6,861.3	-0.7	209.4	6.6	5.49	451,842.11	772,821.74
10,570.0	17.50	3.00	10,550.2	6,891.9	8.6	210.0	15.9	3.34	451,851.44	772,822.33
10,603.0	18.40	0.50	10,581.6	6,923.3	18.8	210.3	26.1	3.59	451,861.61	772,822.64
10,635.0	19.90	359.60	10,611.8	6,953.5	29.3	210.3	36.6	4.78	451,872.10	772,822.64
10,667.0	21.60	357.90	10,641.8	6,983.5	40.6	210.1	47.9	5.64	451,883.44	772,822.39
10,699.0	22.50	357.10	10,671.4	7,013.1	52.6	209.5	59.9	2.96	451,895.44	772,821.86
10,731.0	23.80	357.60	10,700.8	7,042.5	65.2	208.9	72.4	4.11	451,908.00	772,821.28
10,762.0	26.00	357.10	10,729.0	7,070.7	78.2	208.3	85.4	7.13	451,921.04	772,820.68
10,795.0	27.80	355.80	10,758.4	7,100.1	93.1	207.4	100.3	5.74	451,935.94	772,819.75
10,826.0	27.70	356.80	10,785.8	7,127.5	107.5	206.5	114.6	1.54	451,950.35	772,818.82
10,859.0	27.50	358.50	10,815.1	7,156.8	122.8	205.9	129.9	2.46	451,965.62	772,818.19

Company	Murchison Oil and Gas	Local Co-ordinate Reference	Site Brininstool 4 State #3
Project	Jackson Unit Section 4	TVD Reference	RKB @ 3658.3usft
Site	Brininstool 4 State #3	MD Reference	RKB @ 3658.3usft
Well	Brininstool 4 State #3	North Reference	Grid
Wellbore	Brininstool 4 State #3	Survey Calculation Method	Minimum Curvature
Design	Brininstool 4 State #3	Database	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	OLeg (1100usft)	Northing (usft)	Easting (usft)
10,890.0	27.60	358.50	10,842.6	7,184.3	137.1	205.5	144.2	0.32	451,979.95	772,817.81
10,923.0	27.80	356.80	10,871.8	7,213.5	152.4	204.8	159.5	2.47	451,995.28	772,817.18
10,964.0	27.30	357.00	10,908.1	7,249.8	171.4	203.8	178.4	1.24	452,014.21	772,816.16
10,994.0	27.49	356.87	10,934.8	7,276.5	185.2	203.1	192.1	0.67	452,028.00	772,815.42
7"										
11,011.0	27.60	356.80	10,949.8	7,291.5	193.0	202.7	200.0	0.67	452,035.85	772,814.99
11,041.0	31.70	357.00	10,975.9	7,317.6	207.8	201.8	214.7	13.67	452,050.66	772,814.19
11,075.0	33.70	356.50	11,004.5	7,346.2	226.2	200.8	233.0	5.94	452,069.00	772,813.14
11,139.0	37.70	357.30	11,056.5	7,398.2	263.4	198.8	270.2	6.29	452,106.29	772,811.14
11,203.0	45.20	357.10	11,104.4	7,446.1	305.7	196.7	312.4	11.72	452,148.57	772,809.06
11,236.0	49.80	356.60	11,126.7	7,468.4	330.0	195.4	336.6	13.98	452,172.86	772,807.72
11,300.0	58.10	356.20	11,164.3	7,506.0	381.6	192.1	388.1	12.98	452,224.45	772,804.47
11,331.0	62.50	356.40	11,179.7	7,521.4	408.5	190.4	414.9	14.20	452,251.32	772,802.73
11,363.0	67.00	358.20	11,193.3	7,535.0	437.4	189.0	443.7	14.95	452,280.22	772,801.38
11,395.0	71.30	0.10	11,204.7	7,546.4	467.3	188.6	473.6	14.54	452,310.11	772,800.94
11,427.0	75.50	1.00	11,213.9	7,555.6	497.9	188.9	504.2	13.40	452,340.77	772,801.24
11,460.0	80.60	2.00	11,220.7	7,562.4	530.2	189.7	536.5	15.74	452,373.03	772,802.08
11,492.0	84.70	0.10	11,224.8	7,566.5	561.9	190.3	568.2	14.10	452,404.76	772,802.66
11,524.0	86.20	359.90	11,227.3	7,569.0	593.8	190.3	600.1	4.73	452,436.65	772,802.66
11,588.0	92.40	359.50	11,228.1	7,569.8	657.8	190.0	664.0	9.71	452,500.62	772,802.33
11,619.0	92.70	359.50	11,226.7	7,568.4	688.7	189.7	694.9	0.97	452,531.59	772,802.06
11,651.0	92.00	1.30	11,225.4	7,567.1	720.7	189.9	726.9	6.03	452,563.56	772,802.28
11,717.0	91.10	1.40	11,223.6	7,565.3	786.7	191.5	792.9	1.37	452,629.51	772,803.84
11,813.0	92.00	0.80	11,221.0	7,562.7	882.6	193.3	888.8	1.13	452,725.46	772,805.68
11,910.0	90.20	0.90	11,219.2	7,560.9	979.6	194.8	985.8	1.86	452,822.43	772,807.12
12,006.0	90.20	0.80	11,218.8	7,560.5	1,075.6	196.2	1,081.8	0.10	452,918.42	772,808.54
12,102.0	90.20	0.60	11,218.5	7,560.2	1,171.6	197.4	1,177.7	0.21	453,014.41	772,809.71

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Brininstool 4 State #3
Project:	Jackson Unit Section 4	TVD Reference:	RKB @ 3658.3usft
Site:	Brininstool 4 State #3	MD Reference:	RKB @ 3658.3usft
Well:	Brininstool 4 State #3	North Reference:	Grid
Wellbore:	Brininstool 4 State #3	Survey Calculation Method:	Minimum Curvature
Design:	Brininstool 4 State #3	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (100usft)	Northing (usft)	Easting (usft)
12,199.0	90.60	0.80	11,217.8	7,559.5	1,268.6	198.6	1,274.7	0.46	453,111.40	772,810.90
12,263.0	89.80	1.30	11,217.6	7,559.3	1,332.5	199.7	1,338.7	1.47	453,175.39	772,812.07
12,327.0	89.40	0.50	11,218.0	7,559.7	1,396.5	200.7	1,402.7	1.40	453,239.38	772,813.08
12,391.0	88.80	359.90	11,219.1	7,560.8	1,460.5	201.0	1,466.6	1.33	453,303.37	772,813.30
12,455.0	89.40	359.80	11,220.1	7,561.8	1,524.5	200.8	1,530.6	0.95	453,367.36	772,813.13
12,519.0	89.70	358.60	11,220.6	7,562.3	1,588.5	199.9	1,594.5	1.93	453,431.35	772,812.24
12,583.0	90.60	358.30	11,220.4	7,562.1	1,652.5	198.2	1,658.4	1.48	453,495.33	772,810.51
12,647.0	91.70	358.70	11,219.1	7,560.8	1,716.4	196.5	1,722.3	1.83	453,559.29	772,808.83
12,711.0	92.10	358.40	11,217.0	7,558.7	1,780.4	194.9	1,786.1	0.78	453,623.23	772,807.21
12,774.0	91.90	358.40	11,214.8	7,556.5	1,843.3	193.1	1,848.9	0.32	453,686.17	772,805.46
12,807.0	92.70	359.20	11,213.5	7,555.2	1,876.3	192.4	1,881.9	3.43	453,719.14	772,804.77
12,839.0	92.80	358.30	11,211.9	7,553.6	1,908.2	191.7	1,913.8	2.83	453,751.09	772,804.07
12,872.0	92.30	359.30	11,210.5	7,552.2	1,941.2	191.0	1,946.7	3.39	453,784.05	772,803.38
12,904.0	91.20	0.30	11,209.5	7,551.2	1,973.2	190.9	1,978.7	4.64	453,816.03	772,803.27
12,936.0	90.00	0.80	11,209.1	7,550.8	2,005.2	191.2	2,010.6	4.06	453,848.03	772,803.57
12,968.0	90.30	0.80	11,209.1	7,550.8	2,037.2	191.7	2,042.6	0.94	453,880.03	772,804.02
13,000.0	90.80	0.70	11,208.8	7,550.5	2,069.2	192.1	2,074.6	1.59	453,912.02	772,804.44
13,064.0	89.80	0.90	11,208.4	7,550.1	2,133.2	193.0	2,138.6	1.59	453,976.02	772,805.33
13,096.0	90.30	1.00	11,208.4	7,550.1	2,165.2	193.5	2,170.6	1.59	454,008.01	772,805.86
13,159.0	89.70	0.80	11,208.4	7,550.1	2,228.2	194.5	2,233.6	1.00	454,071.00	772,806.85
13,191.0	89.70	0.30	11,208.6	7,550.3	2,260.2	194.8	2,265.6	1.56	454,103.00	772,807.16
13,223.0	89.40	0.00	11,208.8	7,550.5	2,292.2	194.9	2,297.6	1.33	454,135.00	772,807.24
13,255.0	89.70	359.60	11,209.1	7,550.8	2,324.2	194.8	2,329.5	1.56	454,167.00	772,807.13
13,287.0	90.20	359.40	11,209.1	7,550.8	2,356.2	194.5	2,361.5	1.68	454,199.00	772,806.85
13,351.0	89.70	0.10	11,209.1	7,550.8	2,420.2	194.2	2,425.5	1.34	454,263.00	772,806.57
13,383.0	89.70	359.70	11,209.3	7,551.0	2,452.2	194.2	2,457.4	1.25	454,295.00	772,806.52
13,415.0	89.70	359.90	11,209.5	7,551.2	2,484.2	194.1	2,489.4	0.62	454,326.99	772,806.41

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Brininstool 4 State #3
Project:	Jackson Unit Section 4	TVD Reference:	RKB @ 3658.3usft
Site:	Brininstool 4 State #3	MD Reference:	RKB @ 3658.3usft
Well:	Brininstool 4 State #3	North Reference:	Grid
Wellbore:	Brininstool 4 State #3	Survey Calculation Method:	Minimum Curvature
Design:	Brininstool 4 State #3	Database:	EDM 5000.1 Single User Db

MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg ("/100usft)	Northing (usft)	Easting (usft)
13,448.0	90.30	0.20	11,209.5	7,551.2	2,517.2	194.1	2,522.4	2.03	454,359.99	772,806.43
13,543.0	90.00	0.10	11,209.2	7,550.9	2,612.2	194.3	2,617.3	0.33	454,454.99	772,806.68
13,575.0	90.30	0.30	11,209.1	7,550.8	2,644.2	194.5	2,649.3	1.13	454,486.99	772,806.79
13,639.0	89.40	359.70	11,209.3	7,551.0	2,708.2	194.5	2,713.3	1.69	454,550.99	772,806.79
13,703.0	89.40	0.00	11,210.0	7,551.7	2,772.1	194.3	2,777.2	0.47	454,614.99	772,806.63
13,735.0	90.00	359.60	11,210.2	7,551.9	2,804.1	194.2	2,809.2	2.25	454,646.99	772,806.52
13,767.0	90.40	359.30	11,210.0	7,551.7	2,836.1	193.9	2,841.2	1.56	454,678.99	772,806.21
13,831.0	90.00	0.10	11,209.8	7,551.5	2,900.1	193.5	2,905.1	1.40	454,742.98	772,805.87
13,863.0	89.90	0.10	11,209.8	7,551.5	2,932.1	193.6	2,937.1	0.31	454,774.98	772,805.93
13,927.0	90.00	359.70	11,209.9	7,551.6	2,996.1	193.5	3,001.1	0.64	454,838.98	772,805.82
14,023.0	90.20	359.40	11,209.7	7,551.4	3,092.1	192.7	3,097.0	0.38	454,934.98	772,805.06
14,119.0	91.10	358.80	11,208.6	7,550.3	3,188.1	191.2	3,192.9	1.13	455,030.96	772,803.56
14,183.0	90.40	358.60	11,207.8	7,549.5	3,252.1	189.8	3,256.7	1.14	455,094.94	772,802.10
14,215.0	90.30	358.20	11,207.6	7,549.3	3,284.1	188.9	3,288.7	1.29	455,126.92	772,801.21
14,311.0	89.70	358.40	11,207.6	7,549.3	3,380.0	186.0	3,384.5	0.66	455,222.88	772,798.36
14,406.0	90.40	358.30	11,207.5	7,549.2	3,475.0	183.3	3,479.3	0.74	455,317.84	772,795.63
14,502.0	88.50	358.80	11,208.5	7,550.2	3,571.0	180.9	3,575.1	2.05	455,413.80	772,793.20
14,598.0	88.80	359.70	11,210.7	7,552.4	3,666.9	179.6	3,671.0	0.99	455,509.77	772,791.94
14,694.0	89.10	0.20	11,212.5	7,554.2	3,762.9	179.5	3,766.9	0.61	455,605.75	772,791.86
14,790.0	88.40	359.30	11,214.6	7,556.3	3,858.9	179.1	3,862.8	1.19	455,701.72	772,791.44
14,854.0	89.20	359.40	11,215.9	7,557.6	3,922.9	178.4	3,926.7	1.26	455,765.71	772,790.71
14,886.0	88.90	359.10	11,216.4	7,558.1	3,954.9	178.0	3,958.7	1.33	455,797.70	772,790.29
14,980.0	89.30	359.00	11,217.9	7,559.6	4,048.8	176.4	4,052.5	0.44	455,891.67	772,788.74
15,044.0	89.60	359.30	11,218.5	7,560.2	4,112.8	175.5	4,116.4	0.66	455,955.66	772,787.79
15,075.0	89.50	358.70	11,218.8	7,560.5	4,143.8	174.9	4,147.4	1.96	455,986.66	772,787.25
15,172.0	90.60	358.50	11,218.7	7,560.4	4,240.8	172.5	4,244.2	1.15	456,083.63	772,784.88
15,267.0	91.70	358.70	11,216.8	7,558.5	4,335.7	170.2	4,339.0	1.18	456,178.58	772,782.56

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Brininstool 4 State #3
Project:	Jackson Unit Section 4	TVD Reference:	RKB @ 3658.3usft
Site:	Brininstool 4 State #3	MD Reference:	RKB @ 3658.3usft
Well:	Brininstool 4 State #3	North Reference:	Grid
Wellbore:	Brininstool 4 State #3	Survey Calculation Method:	Minimum Curvature
Design:	Brininstool 4 State #3	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)	
15,363.0	91.20	359.30	11,214.4	7,556.1	4,431.7	168.5	4,434.9	0.81	456,274.53	772,780.88	
15,395.0	91.00	359.10	11,213.7	7,555.4	4,463.7	168.1	4,466.8	0.88	456,306.52	772,780.43	
15,460.0	89.80	359.40	11,213.3	7,555.0	4,528.7	167.2	4,531.8	1.90	456,371.51	772,779.58	
15,556.0	90.40	359.50	11,213.1	7,554.8	4,624.7	166.3	4,627.7	0.63	456,467.51	772,778.66	
15,624.0	91.80	359.40	11,211.8	7,553.5	4,692.7	165.7	4,695.6	2.06	456,535.49	772,778.01	
15,670.0	91.80	359.40	11,210.4	7,552.1	4,738.6	165.2	4,741.5	0.00	456,581.47	772,777.53	

Casing Points		
Measured Depth (usft)	Vertical Depth (usft)	Name
1,337.0	1,337.0	13 3/8"
5,173.0	5,171.8	9 5/8"
10,994.0	10,934.8	7"

Checked By: _____ Approved By: _____ Date: _____