

Results of Directional Survey

API number:	30-025-41031		
OGRID:		Operator:	MURCHISON OIL & GAS INC
		Property:	BRININSTOOL 4 STATE # 6H

surface	ULSTR:	N	04	T	24S	R	33E
				200	FSL	2290	FWL

BH Loc	ULSTR:	C	04	T	24S	R	33E
15763	MD	11222.8	TVD	337	FNL	2174	FWL
				4943	FSL		

Top Perf/OH	ULSTR:	N	04	T	24S	R	33E
11360	MD	11184.3	TVD	543	FSL	2228	FWL

Bot Perf/OH	ULSTR:	C	04	T	24S	R	33E
15680	MD	11221.2	TVD	420	FNL	2179	FWL
				4860	FSL		

	MD	N/S	E/W	VD
	11354	337.40	-61.20	11183.3
TOP PERFS/OH	11360	343.27	-61.75	11184.34
	11387	369.70	-64.20	11189.00
	15602	4582.00	-106.30	11219.90
BOT PERFS/OH	15680	4659.84	-111.12	11221.19
	15699	4678.80	-112.30	11221.50

NEXT TO LAST	15753	4732.70	-115.80	11222.60
LAST READING	15763	4742.70	-116.30	11222.80
TD	15763	4742.70	-116.30	11222.80

Surface Location	200	FS	2290	FW
Projected BHL	4943	FS	2174	FW
Location of				
Top Perfs/OH	543	FS	2228	FW
Bottom Perfs/OH	4860	FS	2179	FW

SUMMARY of Subsurface Locations

Surface Location	N-04-24S-33E	200	FS	2290	FW	Vert. Depth
Top Perfs/OH	N-04-24S-33E	543	FS	2228	FW	11184.34
Bottom Perfs/OH	C-04-24S-33E	4860	FS	2179	FW	11221.19
Projected TD	C-04-24S-33E	4943	FS	2174	FW	11222.80

JAN 28 2014

 MURCHISON OIL & GAS, INC.

Murchison Oil and Gas

Jackson Unit Section 4

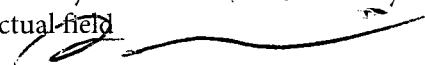
Brininstool 4 State #6

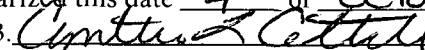
Survey: Brininstool 4 State #6

MOJO Standard Survey

23 September, 2013

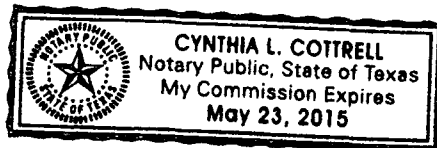
This survey is correct to the best of my knowledge and is supported
by actual field data.

 (Signature)

Notarized this date 4th of October
2013.  Notary
Signature County of Collin State of Texas



MOJO
DIRECTIONAL CORPORATION



Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Brininstool 4 State #6
Project:	Jackson Unit Section 4	TVD Reference:	WELL @ 3652.0usft (Original Well Elev)
Site:	Brininstool 4 State #6	MD Reference:	WELL @ 3652.0usft (Original Well Elev)
Well:	Brininstool 4 State #6	North Reference:	Grid
Wellbore:	Brininstool 4 State #6	Survey Calculation Method:	Minimum Curvature
Design:	Brininstool 4 State #6	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 #6		
Site Position:		Northing:	451,852.25 usft
From:	Lat/Long	Easting:	774,751.88 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 23.865 N
		Longitude:	103° 34' 42.209 W
		Grid Convergence:	0.40 °

Well	Brininstool 4 State #6		
Well Position	+N/-S	0.0 usft	Latitude:
	+E/-W	0.0 usft	Longitude:
Position Uncertainty		0.0 usft	Ground Level:
	Wellhead Elevation:	usft	

Wellbore	Brininstool 4 State #6		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	30/01/2013	7.39
			Dip Angle
			(°)
			60.16
			Field Strength
			(nT)
			48,461

Design	Brininstool 4 State #6		
Audit Notes:		Phase:	ACTUAL
Version:	1.0	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			359.16

Survey Program	Date 23/09/2013		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
200.0	15,763.0	Brininstool 4 State #6 (Brininstool 4 State	MWD
			Description
			MWD - Standard

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Wellbore: Brininstool 4 State #6						Survey Calculation Method:			Minimum Curvature		
Design: Brininstool 4 State #6						Database:			EDM 5000.1 Single User Db		
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	-3,652.0	0.0	0.0	0.0	0.00	451,852.25	774,751.88	
200.0	0.63	296.41	200.0	-3,452.0	0.5	-1.0	0.5	0.31	451,852.74	774,750.90	
400.0	0.64	297.65	400.0	-3,252.0	1.5	-3.0	1.5	0.01	451,853.75	774,748.92	
600.0	0.18	251.49	600.0	-3,052.0	1.9	-4.2	2.0	0.27	451,854.17	774,747.63	
800.0	0.57	159.07	800.0	-2,852.0	0.9	-4.2	0.9	0.30	451,853.14	774,747.69	
1,000.0	0.82	163.31	1,000.0	-2,652.0	-1.4	-3.4	-1.4	0.13	451,850.84	774,748.46	
1,200.0	1.09	155.55	1,199.9	-2,452.1	-4.5	-2.2	-4.5	0.15	451,847.74	774,749.66	
1,270.0	0.91	155.54	1,269.9	-2,382.1	-5.6	-1.7	-5.6	0.26	451,846.63	774,750.16	
13 3/8"											
1,293.1	0.85	155.53	1,293.0	-2,359.0	-5.9	-1.6	-5.9	0.26	451,846.30	774,750.31	
Rustler											
1,400.0	0.57	155.49	1,399.9	-2,252.1	-7.2	-1.0	-7.1	0.26	451,845.10	774,750.86	
1,600.0	0.19	64.87	1,599.9	-2,052.1	-7.9	-0.3	-7.9	0.30	451,844.34	774,751.57	
1,800.0	0.21	5.78	1,799.9	-1,852.1	-7.4	0.0	-7.4	0.10	451,844.84	774,751.91	
2,000.0	0.30	358.43	1,999.9	-1,652.1	-6.5	0.0	-6.5	0.05	451,845.73	774,751.93	
2,200.0	0.34	313.18	2,199.9	-1,452.1	-5.6	-0.4	-5.6	0.12	451,846.66	774,751.48	
2,400.0	0.57	332.25	2,399.9	-1,252.1	-4.3	-1.3	-4.3	0.14	451,847.95	774,750.59	
2,600.0	0.46	333.06	2,599.9	-1,052.1	-2.7	-2.1	-2.7	0.06	451,849.54	774,749.76	
2,800.0	0.27	10.24	2,799.9	-852.1	-1.5	-2.4	-1.5	0.15	451,850.72	774,749.48	
3,000.0	0.26	64.39	2,999.9	-652.1	-0.9	-1.9	-0.8	0.12	451,851.38	774,749.97	
3,200.0	0.29	55.78	3,199.9	-452.1	-0.4	-1.1	-0.4	0.03	451,851.86	774,750.80	
3,400.0	0.58	63.36	3,399.9	-252.1	0.3	0.2	0.3	0.15	451,852.60	774,752.12	
3,600.0	0.77	54.38	3,599.9	-52.1	1.6	2.2	1.6	0.11	451,853.84	774,754.12	
3,800.0	0.75	55.15	3,799.8	147.8	3.1	4.4	3.0	0.01	451,855.37	774,756.29	
4,000.0	0.24	51.13	3,999.8	347.8	4.1	5.8	4.0	0.26	451,856.38	774,757.69	
4,200.0	0.17	345.92	4,199.8	547.8	4.7	6.1	4.6	0.11	451,856.93	774,757.94	
4,400.0	1.50	118.20	4,399.8	747.8	3.7	8.3	3.6	0.81	451,855.98	774,760.18	

Company: Murchison Oil and Gas		Local Co-ordinate Reference:				Site Brininstool 4 State #6				
Project: Jackson Unit Section 4		TVD Reference:				WELL @ 3652.0usft (Original Well Elev)				
Site: Brininstool 4 State #6		MD Reference:				WELL @ 3652.0usft (Original Well Elev)				
Well: Brininstool 4 State #6		North Reference:				Grid				
Wellbore: Brininstool 4 State #6		Survey Calculation Method:				Minimum Curvature				
Design: Brininstool 4 State #6		Database:				EDM 5000.1 Single User Db				

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
4,600.0	2.72	126.72	4,599.7	947.7	-0.3	14.4	-0.6	0.63	451,851.91	774,766.29
4,800.0	4.08	128.92	4,799.3	1,147.3	-7.7	23.7	-8.0	0.68	451,844.60	774,775.63
5,000.0	4.02	119.38	4,998.8	1,346.8	-15.6	35.4	-16.1	0.34	451,836.69	774,787.27
5,168.5	2.99	122.94	5,167.0	1,515.0	-20.9	44.2	-21.5	0.62	451,831.40	774,796.11
Delaware										
5,178.0	2.93	123.22	5,176.5	1,524.5	-21.1	44.6	-21.8	0.62	451,831.13	774,796.52
9 5/8"										
5,200.0	2.80	123.90	5,198.5	1,546.5	-21.7	45.6	-22.4	0.62	451,830.52	774,797.44
5,231.0	3.00	115.40	5,229.4	1,577.4	-22.5	46.9	-23.2	1.53	451,829.75	774,798.80
5,327.0	2.30	125.90	5,325.3	1,673.3	-24.7	50.7	-25.4	0.88	451,827.55	774,802.63
5,423.0	1.80	136.40	5,421.3	1,769.3	-26.9	53.3	-27.7	0.65	451,825.33	774,805.23
5,519.0	0.30	230.90	5,517.2	1,865.2	-28.2	54.2	-29.0	1.92	451,824.08	774,806.07
5,616.0	0.40	263.20	5,614.2	1,962.2	-28.4	53.7	-29.2	0.22	451,823.87	774,805.54
5,710.0	0.40	279.20	5,708.2	2,056.2	-28.4	53.0	-29.1	0.12	451,823.89	774,804.89
5,806.0	0.40	277.30	5,804.2	2,152.2	-28.3	52.3	-29.0	0.01	451,823.98	774,804.23
5,901.0	0.40	267.50	5,899.2	2,247.2	-28.2	51.7	-29.0	0.07	451,824.01	774,803.57
5,999.0	0.50	269.00	5,997.2	2,345.2	-28.3	50.9	-29.0	0.10	451,823.99	774,802.80
6,095.0	0.60	274.20	6,093.2	2,441.2	-28.2	50.0	-29.0	0.12	451,824.02	774,801.88
6,147.8	0.65	272.24	6,146.0	2,494.0	-28.2	49.4	-28.9	0.11	451,824.05	774,801.30
Cherry Canyon										
6,193.0	0.70	270.80	6,191.2	2,539.2	-28.2	48.9	-28.9	0.11	451,824.07	774,800.77
6,289.0	0.90	266.50	6,287.2	2,635.2	-28.2	47.5	-28.9	0.22	451,824.03	774,799.43
6,385.0	0.20	22.20	6,383.2	2,731.2	-28.1	46.9	-28.8	1.04	451,824.14	774,798.74
6,480.0	0.40	54.60	6,478.2	2,826.2	-27.8	47.2	-28.5	0.27	451,824.48	774,799.07
6,575.0	0.40	37.40	6,573.2	2,921.2	-27.3	47.7	-28.0	0.13	451,824.94	774,799.54
6,671.0	0.30	58.00	6,669.2	3,017.2	-26.9	48.1	-27.6	0.17	451,825.34	774,799.96
6,769.0	0.40	36.50	6,767.2	3,115.2	-26.5	48.5	-27.2	0.17	451,825.75	774,800.38
6,866.0	0.50	37.80	6,864.2	3,212.2	-25.9	49.0	-26.6	0.10	451,826.35	774,800.84

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Well:	Brininstool 4 State #6	North Reference:	Grid
Wellbore:	Brininstool 4 State #6	Survey Calculation Method:	Minimum Curvature
Design:	Brininstool 4 State #6	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
6,963.0	0.60	27.00	6,961.2	3,309.2	-25.1	49.5	-25.8	0.15	451,827.14	774,801.33
7,060.0	0.40	12.50	7,058.2	3,406.2	-24.3	49.8	-25.1	0.24	451,827.92	774,801.64
7,157.0	0.40	14.90	7,155.2	3,503.2	-23.7	49.9	-24.4	0.02	451,828.58	774,801.80
7,254.0	0.40	21.30	7,252.2	3,600.2	-23.0	50.1	-23.8	0.05	451,829.23	774,802.01
7,352.0	0.60	17.40	7,350.2	3,698.2	-22.2	50.4	-23.0	0.21	451,830.03	774,802.28
7,449.0	0.60	32.10	7,447.2	3,795.2	-21.3	50.8	-22.0	0.16	451,830.95	774,802.71
7,506.8	0.60	34.00	7,505.0	3,853.0	-20.8	51.2	-21.5	0.03	451,831.46	774,803.04
Brushy Canyon										
7,546.0	0.60	35.30	7,544.2	3,892.2	-20.5	51.4	-21.2	0.03	451,831.79	774,803.27
7,643.0	0.40	5.90	7,641.2	3,989.2	-19.7	51.7	-20.5	0.33	451,832.54	774,803.60
7,740.0	0.30	355.60	7,738.2	4,086.2	-19.1	51.7	-19.9	0.12	451,833.13	774,803.61
7,837.0	0.20	35.30	7,835.2	4,183.2	-18.7	51.8	-19.5	0.20	451,833.53	774,803.69
7,934.0	0.10	326.80	7,932.2	4,280.2	-18.5	51.9	-19.3	0.19	451,833.73	774,803.74
8,030.0	0.00	322.90	8,028.2	4,376.2	-18.4	51.8	-19.2	0.10	451,833.80	774,803.70
8,127.0	0.30	315.80	8,125.2	4,473.2	-18.3	51.6	-19.0	0.31	451,833.99	774,803.52
8,223.0	0.50	321.30	8,221.2	4,569.2	-17.8	51.2	-18.5	0.21	451,834.49	774,803.08
8,319.0	0.40	314.10	8,317.2	4,665.2	-17.2	50.7	-17.9	0.12	451,835.05	774,802.58
8,416.0	0.30	314.60	8,414.2	4,762.2	-16.8	50.3	-17.5	0.10	451,835.47	774,802.16
8,513.0	0.30	308.80	8,511.2	4,859.2	-16.4	49.9	-17.2	0.03	451,835.81	774,801.78
8,609.0	0.30	311.40	8,607.2	4,955.2	-16.1	49.5	-16.8	0.01	451,836.13	774,801.39
8,705.0	0.40	311.50	8,703.1	5,051.1	-15.7	49.1	-16.5	0.10	451,836.52	774,800.95
8,801.0	0.30	309.70	8,799.1	5,147.1	-15.4	48.6	-16.1	0.10	451,836.90	774,800.51
8,896.0	0.30	280.10	8,894.1	5,242.1	-15.2	48.2	-15.9	0.16	451,837.10	774,800.07
8,993.0	0.50	279.50	8,991.1	5,339.1	-15.0	47.5	-15.7	0.21	451,837.22	774,799.40
9,089.0	0.60	258.90	9,087.1	5,435.1	-15.1	46.6	-15.7	0.23	451,837.19	774,798.50
9,111.9	0.58	259.62	9,110.0	5,458.0	-15.1	46.4	-15.8	0.11	451,837.15	774,798.27
Bone Spring										

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9,185.0	0.50	262.40	9,183.1	5,531.1	-15.2	45.7	-15.9	0.11	451,837.04	774,797.59	
9,261.9	0.66	255.10	9,260.0	5,608.0	-15.4	44.9	-16.0	0.23	451,836.88	774,796.83	
Avalon Shale											
9,281.0	0.70	253.80	9,279.1	5,627.1	-15.4	44.7	-16.1	0.23	451,836.82	774,796.61	
9,378.0	0.80	277.50	9,376.1	5,724.1	-15.5	43.5	-16.1	0.33	451,836.74	774,795.37	
9,474.0	0.40	210.60	9,472.1	5,820.1	-15.7	42.7	-16.3	0.77	451,836.54	774,794.54	
9,569.0	0.30	224.10	9,567.1	5,915.1	-16.2	42.3	-16.8	0.14	451,836.08	774,794.19	
9,666.0	1.00	235.10	9,664.1	6,012.1	-16.8	41.4	-17.4	0.73	451,835.41	774,793.32	
9,761.0	1.20	230.40	9,759.1	6,107.1	-18.0	40.0	-18.5	0.23	451,834.30	774,791.88	
9,857.0	1.50	206.80	9,855.1	6,203.1	-19.7	38.7	-20.3	0.65	451,832.54	774,790.54	
9,951.0	1.60	216.10	9,949.0	6,297.0	-21.9	37.3	-22.4	0.29	451,830.38	774,789.21	
10,046.0	1.80	223.60	10,044.0	6,392.0	-24.0	35.5	-24.5	0.31	451,828.23	774,787.40	
10,141.0	2.20	226.40	10,138.9	6,486.9	-26.4	33.2	-26.8	0.43	451,825.89	774,785.05	
10,222.1	1.69	220.73	10,220.0	6,568.0	-28.3	31.3	-28.8	0.67	451,823.91	774,783.14	
1st Bone Spring Sand											
10,237.0	1.60	219.30	10,234.9	6,582.9	-28.7	31.0	-29.1	0.67	451,823.58	774,782.86	
10,334.0	1.10	216.60	10,331.9	6,679.9	-30.5	29.6	-30.9	0.52	451,821.79	774,781.45	
10,430.0	0.10	250.50	10,427.8	6,775.8	-31.2	28.9	-31.7	1.06	451,821.02	774,780.82	
10,526.0	0.30	25.50	10,523.8	6,871.8	-31.0	29.0	-31.5	0.39	451,821.22	774,780.85	
10,623.0	2.90	342.30	10,620.8	6,968.8	-28.5	28.3	-28.9	2.77	451,823.79	774,780.22	
10,635.0	3.60	337.60	10,632.8	6,980.8	-27.8	28.1	-28.2	6.24	451,824.42	774,779.98	
10,680.0	5.80	332.95	10,677.6	7,025.6	-24.5	26.5	-24.9	4.96	451,827.76	774,778.41	
7"											
10,684.0	6.00	332.70	10,681.6	7,029.6	-24.1	26.3	-24.5	4.96	451,828.12	774,778.22	
10,716.0	5.90	328.20	10,713.4	7,061.4	-21.2	24.7	-21.6	1.49	451,831.01	774,776.59	
10,748.0	10.30	336.10	10,745.1	7,093.1	-17.2	22.7	-17.6	14.15	451,835.02	774,774.56	
10,780.0	11.80	338.50	10,776.5	7,124.5	-11.6	20.3	-11.9	4.90	451,840.68	774,772.20	
10,813.0	14.10	349.50	10,808.7	7,156.7	-4.5	18.3	-4.7	10.19	451,847.77	774,770.23	

Company: Murchison Oil and Gas		Local Co-ordinate Reference:					Site Brininstool 4 State #6				
Project: Jackson Unit Section 4							WELL @ 3652.0usft (Original Well Elev)				
Site: Brininstool 4 State #6							WELL @ 3652.0usft (Original Well Elev)				
Well: Brininstool 4 State #6							Grid				
Wellbore: Brininstool 4 State #6							Minimum Curvature				
Design: Brininstool 4 State #6							EDM 5000.1 Single User Db				
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
10,844.0	18.10	357.60	10,838.5	7,186.5	4.0	17.5	3.8	14.77	451,856.30	774,769.34	
10,870.0	21.02	359.11	10,863.0	7,211.0	12.8	17.2	12.5	11.41	451,865.00	774,769.10	
2nd Bone Spring Sand											
10,876.0	21.70	359.40	10,868.5	7,216.5	14.9	17.2	14.7	11.41	451,867.19	774,769.07	
10,907.0	25.00	357.50	10,897.0	7,245.0	27.2	16.8	27.0	10.92	451,879.47	774,768.72	
10,939.0	29.60	349.90	10,925.4	7,273.4	41.8	15.2	41.5	18.01	451,894.02	774,767.04	
10,970.0	32.50	346.90	10,952.0	7,300.0	57.4	11.9	57.2	10.60	451,909.67	774,763.81	
11,002.0	32.80	344.00	10,978.9	7,326.9	74.1	7.6	74.0	4.98	451,926.38	774,759.47	
11,034.0	33.80	339.80	11,005.7	7,353.7	90.8	2.1	90.8	7.85	451,943.06	774,754.01	
11,066.0	38.20	339.00	11,031.6	7,379.6	108.4	-4.5	108.5	13.83	451,960.66	774,747.39	
11,098.0	42.00	339.20	11,056.0	7,404.0	127.7	-11.8	127.8	11.88	451,979.91	774,740.04	
11,131.0	45.50	338.30	11,079.9	7,427.9	148.9	-20.1	149.2	10.77	452,001.18	774,731.76	
11,163.0	48.60	341.50	11,101.7	7,449.7	170.9	-28.2	171.3	12.14	452,023.17	774,723.73	
11,195.0	53.30	346.20	11,121.8	7,469.8	194.8	-35.0	195.3	18.59	452,047.03	774,716.86	
11,227.0	58.60	349.60	11,139.8	7,487.8	220.7	-40.6	221.3	18.75	452,072.95	774,711.33	
11,259.0	64.20	350.10	11,155.1	7,503.1	248.3	-45.5	249.0	17.55	452,100.59	774,706.38	
11,290.0	70.20	348.30	11,167.1	7,515.1	276.4	-50.9	277.1	20.08	452,128.65	774,701.02	
11,322.0	76.20	350.10	11,176.3	7,524.3	306.5	-56.6	307.3	19.51	452,158.72	774,695.29	
11,354.0	78.70	352.90	11,183.3	7,531.3	337.4	-61.2	338.2	11.57	452,189.61	774,690.68	
11,387.0	81.50	356.50	11,189.0	7,537.0	369.7	-64.2	370.6	13.69	452,221.97	774,687.68	
11,419.0	81.90	357.40	11,193.6	7,541.6	401.3	-65.9	402.3	3.05	452,253.59	774,685.99	
11,451.0	84.80	356.70	11,197.3	7,545.3	433.1	-67.5	434.0	9.32	452,285.33	774,684.36	
11,483.0	89.00	357.50	11,199.0	7,547.0	465.0	-69.1	465.9	13.36	452,317.24	774,682.74	
11,515.0	90.30	358.10	11,199.2	7,547.2	497.0	-70.4	497.9	4.47	452,349.21	774,681.51	
11,547.0	90.60	357.90	11,199.0	7,547.0	528.9	-71.5	529.9	1.13	452,381.19	774,680.40	
11,644.0	90.20	0.10	11,198.3	7,546.3	625.9	-73.2	626.9	2.31	452,478.17	774,678.70	
11,740.0	90.00	359.80	11,198.1	7,546.1	721.9	-73.3	722.9	0.38	452,574.17	774,678.62	

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Brininstool 4 State #6
Project:	Jackson Unit Section 4	TVD Reference:	WELL @ 3652.0usft (Original Well Elev)
Site:	Brininstool 4 State #6	MD Reference:	WELL @ 3652.0usft (Original Well Elev)
Well:	Brininstool 4 State #6	North Reference:	Grid
Wellbore:	Brininstool 4 State #6	Survey Calculation Method:	Minimum Curvature
Design:	Brininstool 4 State #6	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
11,837.0	89.70	0.10	11,198.4	7,546.4	818.9	-73.3	819.9	0.44	452,671.17	774,678.54	
11,934.0	89.50	0.30	11,199.0	7,547.0	915.9	-73.0	916.9	0.29	452,768.16	774,678.87	
12,031.0	91.20	358.30	11,198.4	7,546.4	1,012.9	-74.2	1,013.9	2.71	452,865.15	774,677.69	
12,128.0	91.20	357.50	11,196.4	7,544.4	1,109.8	-77.7	1,110.8	0.82	452,962.06	774,674.14	
12,224.0	90.70	357.90	11,194.8	7,542.8	1,205.7	-81.6	1,206.8	0.67	453,057.97	774,670.28	
12,321.0	89.70	357.30	11,194.5	7,542.5	1,302.6	-85.7	1,303.7	1.20	453,154.88	774,666.22	
12,417.0	89.40	357.40	11,195.2	7,543.2	1,398.5	-90.1	1,399.7	0.33	453,250.77	774,661.78	
12,513.0	91.30	359.30	11,194.7	7,542.7	1,494.5	-92.9	1,495.7	2.80	453,346.72	774,659.02	
12,609.0	90.90	0.10	11,192.8	7,540.8	1,590.5	-93.4	1,591.6	0.93	453,442.70	774,658.52	
12,705.0	89.50	1.40	11,192.5	7,540.5	1,686.4	-92.1	1,687.6	1.99	453,538.69	774,659.77	
12,802.0	89.80	1.20	11,193.1	7,541.1	1,783.4	-89.9	1,784.5	0.37	453,635.66	774,661.97	
12,900.0	90.00	1.00	11,193.2	7,541.2	1,881.4	-88.0	1,882.5	0.29	453,733.65	774,663.86	
12,996.0	88.70	0.90	11,194.3	7,542.3	1,977.4	-86.4	1,978.4	1.36	453,829.62	774,665.45	
13,093.0	88.60	0.60	11,196.6	7,544.6	2,074.3	-85.2	2,075.4	0.33	453,926.59	774,666.72	
13,190.0	89.40	0.60	11,198.3	7,546.3	2,171.3	-84.1	2,172.3	0.82	454,023.57	774,667.73	
13,287.0	88.80	0.20	11,199.8	7,547.8	2,268.3	-83.5	2,269.3	0.74	454,120.55	774,668.41	
13,383.0	90.10	359.90	11,200.7	7,548.7	2,364.3	-83.4	2,365.3	1.39	454,216.55	774,668.49	
13,479.0	89.50	359.70	11,201.1	7,549.1	2,460.3	-83.7	2,461.3	0.66	454,312.54	774,668.16	
13,575.0	90.00	358.60	11,201.5	7,549.5	2,556.3	-85.1	2,557.3	1.26	454,408.53	774,666.73	
13,671.0	88.90	357.90	11,202.4	7,550.4	2,652.2	-88.1	2,653.2	1.36	454,504.48	774,663.80	
13,767.0	88.70	358.90	11,204.4	7,552.4	2,748.2	-90.8	2,749.2	1.06	454,600.42	774,661.12	
13,863.0	89.90	0.70	11,205.6	7,553.6	2,844.2	-91.1	2,845.2	2.25	454,696.41	774,660.79	
13,960.0	89.80	0.10	11,205.9	7,553.9	2,941.1	-90.4	2,942.2	0.63	454,793.40	774,661.46	
14,057.0	90.30	0.20	11,205.8	7,553.8	3,038.1	-90.2	3,039.1	0.53	454,890.40	774,661.72	
14,153.0	89.70	0.70	11,205.8	7,553.8	3,134.1	-89.4	3,135.1	0.81	454,986.40	774,662.47	
14,250.0	89.60	0.60	11,206.4	7,554.4	3,231.1	-88.3	3,232.1	0.15	455,083.39	774,663.57	
14,345.0	90.20	1.50	11,206.5	7,554.5	3,326.1	-86.6	3,327.0	1.14	455,178.37	774,665.31	

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Brininstool 4 State #6
Project:	Jackson Unit Section 4	TVD Reference:	WELL @ 3652.0usft (Original Well Elev)
Site:	Brininstool 4 State #6	MD Reference:	WELL @ 3652.0usft (Original Well Elev)
Well:	Brininstool 4 State #6	North Reference:	Grid
Wellbore:	Brininstool 4 State #6	Survey Calculation Method:	Minimum Curvature
Design:	Brininstool 4 State #6	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
14,442.0	89.80	1.50	11,206.5	7,554.5	3,423.1	-84.0	3,424.0	0.41	455,275.34	774,667.85	
14,538.0	91.50	2.20	11,205.4	7,553.4	3,519.0	-80.9	3,519.8	1.92	455,371.28	774,670.95	
14,634.0	89.60	1.80	11,204.5	7,552.5	3,615.0	-77.6	3,615.7	2.02	455,467.21	774,674.30	
14,731.0	89.00	0.50	11,205.7	7,553.7	3,711.9	-75.6	3,712.6	1.48	455,564.18	774,676.25	
14,827.0	88.50	359.70	11,207.8	7,555.8	3,807.9	-75.5	3,808.6	0.98	455,660.16	774,676.42	
14,924.0	87.60	358.60	11,211.1	7,559.1	3,904.8	-76.9	3,905.5	1.46	455,757.09	774,674.98	
15,020.0	89.10	358.50	11,213.9	7,561.9	4,000.8	-79.3	4,001.5	1.57	455,853.02	774,672.55	
15,118.0	89.50	358.00	11,215.1	7,563.1	4,098.7	-82.3	4,099.5	0.65	455,950.96	774,669.56	
15,214.0	89.00	357.40	11,216.3	7,564.3	4,194.6	-86.2	4,195.4	0.81	456,046.88	774,665.71	
15,311.0	89.40	357.30	11,217.7	7,565.7	4,291.5	-90.7	4,292.4	0.43	456,143.76	774,661.22	
15,408.0	90.90	357.60	11,217.4	7,565.4	4,388.4	-95.0	4,389.3	1.58	456,240.66	774,656.91	
15,504.0	88.50	356.40	11,217.9	7,565.9	4,484.3	-100.0	4,485.3	2.80	456,336.52	774,651.88	
15,602.0	89.20	356.20	11,219.9	7,567.9	4,582.0	-106.3	4,583.1	0.74	456,434.30	774,645.56	
15,699.0	88.90	356.70	11,221.5	7,569.5	4,678.8	-112.3	4,680.0	0.60	456,531.10	774,639.55	
15,716.0	88.80	356.40	11,221.8	7,569.8	4,695.8	-113.4	4,697.0	1.86	456,548.06	774,638.53	
15,753.0	88.80	356.40	11,222.6	7,570.6	4,732.7	-115.7	4,733.9	0.00	456,584.98	774,636.21	
Last Survey Point Projected to Bit											
15,763.0	88.80	356.40	11,222.8	7,570.8	4,742.7	-116.3	4,743.9	0.00	456,594.96	774,635.58	

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
10,680.0	10,677.6	7"	7	7-1/2	
1,270.0	1,269.9	13 3/8"	13-3/8	17-1/2	
5,178.0	5,176.5	9 5/8"	9-5/8	12-1/4	
15,753.0	11,222.6	4 1/2"	4-1/2	6	

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Brininstool 4 State #6
Project:	Jackson Unit Section 4	TVD Reference:	WELL @ 3652.0usft (Original Well Elev)
Site:	Brininstool 4 State #6	MD Reference:	WELL @ 3652.0usft (Original Well Elev)
Well:	Brininstool 4 State #6	North Reference:	Grid
Wellbore:	Brininstool 4 State #6	Survey Calculation Method:	Minimum Curvature
Design:	Brininstool 4 State #6	Database:	EDM 5000.1 Single User Db

Formations				
Measured Depth (usft)	Vertical Depth (usft)	Name	Dip (°)	
7,506.8	7,505.0	Brushy Canyon	0.00	
5,168.5	5,167.0	Delaware	0.00	
9,261.9	9,260.0	Avalon Shale	0.00	
10,222.1	10,220.0	1st Bone Spring Sand	0.00	
1,293.1	1,293.0	Rustler	0.00	
9,111.9	9,110.0	Bone Spring	0.00	
10,870.0	10,863.0	2nd Bone Spring Sand	0.00	
6,147.8	6,146.0	Cherry Canyon	0.00	

Checked By: _____	Approved By: _____	Date: _____
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