

Results of Directional Survey

API number:	30-025-41710		
OGRID:		Operator:	MURCHISON OIL & GAS INC
		Property:	JACKSON UNIT # 28H

surface	ULSTR:	N	21	T	24S	R	33E
				200	FSL	2290	FWL

BH Loc	ULSTR:	C	21	T	24S	R	33E
15500	MD	10873.3	TVD	273	FNL	2183	FWL
				5007	FSL		

Top Perf/OH	ULSTR:	N	21	T	24S	R	33E
10980	MD	10838.4	TVD	493	FSL	2273	FWL

Bot Perf/OH	ULSTR:	C	21	T	24S	R	33E
15394	MD	10875.7	TVD	379	FNL	2184	FWL
				4901	FSL		

	MD	N/S	E/W	VD
	10953	267.40	-16.20	10829.1
TOP PERFS/OH	10980	292.80	-16.96	10838.38
	10985	297.50	-17.10	10840.10
	15312	4619.10	-106.60	10876.80
BOT PERFS/OH	15394	4701.10	-106.43	10875.68
	15407	4714.10	-106.40	10875.50

NEXT TO LAST	15492	4799.10	-106.50	10873.50
LAST READING	15500	4807.10	-106.60	10873.30
TD	15500	4807.10	-106.60	10873.30

Surface Location	200	FS	2290	FW
Projected BHL	5007	FS	2183	FW
Location of				
Top Perfs/OH	493	FS	2273	FW
Bottom Perfs/OH	4901	FS	2184	FW

SUMMARY of Subsurface Locations

Surface Location	N-21-24S-33E	200	FS	2290	FW	Vert. Depth
Top Perfs/OH	N-21-24S-33E	493	FS	2273	FW	10838.38
Bottom Perfs/OH	C-21-24S-33E	4901	FS	2184	FW	10875.68
Projected TD	C-21-24S-33E	5007	FS	2183	FW	10873.30

JUL 16 2014



Murchison Oil and Gas

Jackson Unit Section 21

Jackson Unit 28H

HOBBS OCD

JUN 04 2014

Survey: Jackson Unit #28H

RECEIVED

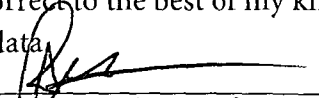
MOJO Standard Survey

12 May, 2014



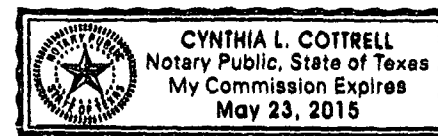
MOJO
DIRECTIONAL CORPORATION

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

 (Signature)

Notarized this day 13th of MAY, 2014


Notary Signature County of Collin State of Texas



Company: Murchison Oil and Gas Project: Jackson Unit Section 21 Site: Jackson Unit 28H Well: Jackson Unit #28H Wellbore: Jackson Unit #28H Design: Jackson Unit #28H	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Site Jackson Unit 28H WELL @ 3549.2usft (Original Well Elev) WELL @ 3549.2usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db
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Project Jackson Unit Section 21	
Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone	System Datum: Mean Sea Level

Site Jackson Unit 28H		
Site Position: From: Lat/Long Position Uncertainty: 1.0 usft	Northing: 436,014.91 usft Easting: 774,868.30 usft Slot Radius: 16 "	Latitude: 32° 11' 47.143 N Longitude: 103° 34' 42.149 W Grid Convergence: 0.40 °

Well Jackson Unit #28H		
Well Position +N/-S 0.0 usft +/-W 0.0 usft Position Uncertainty 0.0 usft	Northing: 436,014.91 usft Easting: 774,868.30 usft Wellhead Elevation: usft	Latitude: 32° 11' 47.143 N Longitude: 103° 34' 42.149 W Ground Level: 3,527.2 usft

Wellbore Jackson Unit #28H					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	31/03/2014	7.24	60.09	48,319

Design Jackson Unit #28H				
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	359.20

Survey Program	Date 12/05/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	15,500.0	Jackson Unit #28H (Jackson Unit #28H)	MWD	MWD - Standard

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Jackson Unit 28H
Project:	Jackson Unit Section 21	TVD Reference:	WELL @ 3549.2usft (Original Well Elev)
Site:	Jackson Unit 28H	MD Reference:	WELL @ 3549.2usft (Original Well Elev)
Well:	Jackson Unit #28H	North Reference:	Grid
Wellbore:	Jackson Unit #28H	Survey Calculation Method:	Minimum Curvature
Design:	Jackson Unit #28H	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	-3,549.2	0.0	0.0	0.0	0.00	436,014.91	774,868.30
100.0	1.88	2.13	100.0	-3,449.2	1.6	0.1	1.6	1.88	436,016.55	774,868.36
200.0	2.33	5.64	199.9	-3,349.3	5.3	0.3	5.3	0.47	436,020.21	774,868.62
300.0	2.32	7.84	299.8	-3,249.4	9.3	0.8	9.3	0.09	436,024.24	774,869.10
400.0	2.29	11.12	399.8	-3,149.4	13.3	1.5	13.3	0.14	436,028.20	774,869.76
500.0	1.98	12.33	499.7	-3,049.5	16.9	2.2	16.9	0.31	436,031.85	774,870.51
600.0	1.83	14.69	599.6	-2,949.6	20.2	3.0	20.1	0.17	436,035.08	774,871.29
700.0	1.73	15.33	699.6	-2,849.6	23.2	3.8	23.1	0.10	436,038.08	774,872.09
800.0	1.77	15.61	799.5	-2,749.7	26.1	4.6	26.1	0.04	436,041.03	774,872.90
900.0	1.78	16.63	899.5	-2,649.7	29.1	5.5	29.0	0.03	436,044.00	774,873.76
1,000.0	1.83	17.84	999.4	-2,549.8	32.1	6.4	32.0	0.06	436,047.01	774,874.70
1,100.0	1.86	17.01	1,099.4	-2,449.8	35.2	7.4	35.1	0.04	436,050.08	774,875.66
1,193.9	1.89	14.93	1,193.2	-2,356.0	38.1	8.2	38.0	0.08	436,053.03	774,876.51
Rustler										
1,200.0	1.89	14.80	1,199.3	-2,349.9	38.3	8.3	38.2	0.08	436,053.23	774,876.56
1,235.0	2.12	15.55	1,234.3	-2,314.9	39.5	8.6	39.4	0.67	436,054.41	774,876.88
13 3/8"										
1,300.0	2.56	16.58	1,299.3	-2,249.9	42.1	9.3	41.9	0.67	436,056.96	774,877.62
1,400.0	2.91	17.24	1,399.1	-2,150.1	46.6	10.7	46.5	0.35	436,061.53	774,879.01
1,500.0	2.49	18.08	1,499.0	-2,050.2	51.1	12.1	50.9	0.42	436,066.02	774,880.43
1,600.0	1.42	28.39	1,599.0	-1,950.2	54.3	13.4	54.1	1.12	436,069.17	774,881.70
1,700.0	0.49	48.60	1,699.0	-1,850.2	55.6	14.3	55.4	0.97	436,070.54	774,882.61
1,800.0	0.38	210.42	1,799.0	-1,750.2	55.6	14.5	55.4	0.86	436,070.54	774,882.76
1,900.0	1.15	212.43	1,898.9	-1,650.3	54.5	13.8	54.3	0.77	436,069.41	774,882.05
2,000.0	1.71	211.73	1,998.9	-1,550.3	52.4	12.4	52.2	0.56	436,067.29	774,880.73
2,100.0	2.47	214.73	2,098.8	-1,450.4	49.3	10.4	49.2	0.77	436,064.25	774,878.72
2,200.0	2.15	219.04	2,198.8	-1,350.4	46.1	8.0	46.0	0.36	436,061.02	774,876.31

Company: Murchison Oil and Gas
Project: Jackson Unit Section 21
Site: Jackson Unit 28H
Well: Jackson Unit #28H
Wellbore: Jackson Unit #28H
Design: Jackson Unit #28H

Local Co-ordinate Reference: Site Jackson Unit 28H
TVD Reference: WELL @ 3549.2usft (Original Well Elev)
MD Reference: WELL @ 3549.2usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
2,300.0	2.03	224.46	2,298.7	-1,250.5	43.4	5.6	43.3	0.23	436,058.30	774,873.89	
2,400.0	1.81	231.69	2,398.6	-1,150.6	41.2	3.1	41.1	0.33	436,056.06	774,871.41	
2,500.0	0.98	225.62	2,498.6	-1,050.6	39.6	1.3	39.6	0.84	436,054.48	774,869.56	
2,600.0	0.39	99.10	2,598.6	-950.6	38.9	1.0	38.9	1.25	436,053.83	774,869.28	
2,700.0	0.61	120.03	2,698.6	-850.6	38.6	1.8	38.6	0.28	436,053.51	774,870.08	
2,800.0	1.25	152.23	2,798.6	-750.6	37.4	2.7	37.3	0.80	436,052.28	774,871.05	
2,900.0	1.72	166.83	2,898.6	-650.6	34.9	3.6	34.9	0.60	436,049.85	774,871.90	
3,000.0	1.73	160.73	2,998.5	-550.7	32.1	4.4	32.0	0.18	436,046.97	774,872.74	
3,100.0	1.83	158.67	3,098.5	-450.7	29.1	5.5	29.1	0.12	436,044.05	774,873.82	
3,200.0	1.14	145.21	3,198.4	-350.8	26.8	6.7	26.7	0.77	436,041.75	774,874.96	
3,300.0	1.06	107.32	3,298.4	-250.8	25.8	8.1	25.6	0.72	436,040.66	774,876.41	
3,400.0	0.65	64.43	3,398.4	-150.8	25.7	9.5	25.6	0.73	436,040.63	774,877.81	
3,500.0	0.63	349.96	3,498.4	-50.8	26.5	9.9	26.4	0.77	436,041.41	774,878.23	
3,600.0	0.91	313.91	3,598.4	49.2	27.6	9.3	27.5	0.55	436,042.51	774,877.56	
3,700.0	2.09	280.46	3,698.4	149.2	28.5	6.9	28.4	1.42	436,043.39	774,875.19	
3,800.0	3.76	259.43	3,798.2	249.0	28.2	1.9	28.2	1.96	436,043.12	774,870.18	
3,900.0	3.30	227.78	3,898.0	348.8	25.7	-3.5	25.7	1.97	436,040.58	774,864.82	
4,000.0	2.21	192.62	3,997.9	448.7	21.9	-6.0	21.9	1.96	436,036.76	774,862.27	
4,100.0	1.33	143.27	4,097.9	548.7	19.0	-5.8	19.1	1.68	436,033.95	774,862.54	
4,200.0	1.46	90.90	4,197.9	648.7	18.1	-3.8	18.1	1.24	436,033.00	774,864.51	
4,300.0	1.08	76.03	4,297.8	748.6	18.3	-1.6	18.3	0.50	436,033.21	774,866.70	
4,400.0	1.42	78.17	4,397.8	848.6	18.8	0.5	18.8	0.34	436,033.69	774,868.82	
4,500.0	0.58	97.33	4,497.8	948.6	19.0	2.2	18.9	0.89	436,033.88	774,870.54	
4,600.0	0.29	152.73	4,597.8	1,048.6	18.7	2.9	18.6	0.48	436,033.59	774,871.16	
4,700.0	0.66	146.31	4,697.8	1,148.6	18.0	3.3	17.9	0.37	436,032.89	774,871.59	
4,800.0	1.33	132.95	4,797.8	1,248.6	16.7	4.5	16.6	0.70	436,031.62	774,872.76	
4,900.0	1.43	132.30	4,897.7	1,348.5	15.1	6.2	15.0	0.10	436,029.99	774,874.53	

Company: Murchison Oil and Gas
Project: Jackson Unit Section 21
Site: Jackson Unit 28H
Well: Jackson Unit #28H
Wellbore: Jackson Unit #28H
Design: Jackson Unit #28H

Local Co-ordinate Reference: Site Jackson Unit 28H
TVD Reference: WELL @ 3549.2usft (Original Well Elev)
MD Reference: WELL @ 3549.2usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
5,000.0	0.30	211.45	4,997.7	1,448.5	14.0	7.0	13.9	1.40	436,028.92	774,875.32
5,060.0	0.49	250.90	5,057.7	1,508.5	13.8	6.7	13.7	0.54	436,028.71	774,874.99
5,127.5	1.02	283.59	5,125.2	1,576.0	13.8	5.8	13.8	0.99	436,028.75	774,874.14
Delaware										
5,138.0	1.12	285.70	5,135.7	1,586.5	13.9	5.6	13.8	0.99	436,028.80	774,873.95
9 5/8"										
5,231.0	2.00	295.30	5,228.7	1,679.5	14.8	3.3	14.8	0.99	436,029.74	774,871.61
5,326.0	0.50	260.70	5,323.7	1,774.5	15.5	1.4	15.5	1.70	436,030.38	774,869.70
5,420.0	0.40	254.90	5,417.7	1,868.5	15.3	0.7	15.3	0.12	436,030.23	774,868.98
5,515.0	0.40	260.50	5,512.7	1,963.5	15.2	0.0	15.2	0.04	436,030.09	774,868.33
5,609.0	0.50	287.30	5,606.7	2,057.5	15.3	-0.7	15.3	0.24	436,030.16	774,867.61
5,704.0	0.60	278.80	5,701.7	2,152.5	15.5	-1.6	15.5	0.14	436,030.36	774,866.73
5,799.0	0.80	287.30	5,796.6	2,247.4	15.7	-2.7	15.8	0.24	436,030.63	774,865.60
5,893.0	0.90	239.80	5,890.6	2,341.4	15.5	-4.0	15.6	0.73	436,030.45	774,864.34
5,988.0	1.00	238.20	5,985.6	2,436.4	14.7	-5.3	14.8	0.11	436,029.64	774,862.99
6,083.0	0.50	134.20	6,080.6	2,531.4	14.0	-5.7	14.1	1.29	436,028.92	774,862.58
6,129.6	0.55	140.79	6,127.2	2,578.0	13.7	-5.4	13.8	0.16	436,028.60	774,862.87
Cherry Canyon										
6,178.0	0.60	146.50	6,175.6	2,626.4	13.3	-5.1	13.4	0.16	436,028.21	774,863.15
6,274.0	0.60	135.60	6,271.6	2,722.4	12.5	-4.5	12.6	0.12	436,027.43	774,863.78
6,369.0	0.50	152.30	6,366.6	2,817.4	11.8	-4.0	11.9	0.20	436,026.71	774,864.32
6,463.0	0.60	151.20	6,460.6	2,911.4	11.0	-3.5	11.1	0.11	436,025.92	774,864.75
6,558.0	0.60	148.00	6,555.6	3,006.4	10.2	-3.0	10.2	0.04	436,025.06	774,865.25
6,652.0	0.60	165.10	6,649.6	3,100.4	9.3	-2.7	9.3	0.19	436,024.17	774,865.64
6,747.0	0.60	167.70	6,744.6	3,195.4	8.3	-2.4	8.3	0.03	436,023.20	774,865.87
6,841.0	0.50	174.90	6,838.6	3,289.4	7.4	-2.3	7.4	0.13	436,022.31	774,866.02
6,936.0	0.50	179.20	6,933.6	3,384.4	6.6	-2.2	6.6	0.04	436,021.48	774,866.06

Company: Murchison Oil and Gas
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Site: Jackson Unit 28H
Well: Jackson Unit #28H
Wellbore: Jackson Unit #28H
Design: Jackson Unit #28H

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Site Jackson Unit 28H
 WELL @ 3549.2usft (Original Well Elev)
 WELL @ 3549.2usft (Original Well Elev)
 Grid
 Minimum Curvature
 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)	
7,031.0	0.50	185.00	7,028.6	3,479.4	5.7	-2.3	5.8	0.05	436,020.66	774,866.03	
7,126.0	0.70	177.70	7,123.6	3,574.4	4.8	-2.3	4.8	0.22	436,019.66	774,866.01	
7,220.0	0.60	184.80	7,217.6	3,668.4	3.7	-2.3	3.7	0.14	436,018.60	774,866.00	
7,315.0	0.70	179.20	7,312.6	3,763.4	2.6	-2.3	2.6	0.12	436,017.52	774,865.96	
7,410.0	0.60	187.20	7,407.5	3,858.3	1.5	-2.4	1.6	0.14	436,016.45	774,865.91	
7,505.0	0.80	180.40	7,502.5	3,953.3	0.4	-2.5	0.4	0.23	436,015.29	774,865.84	
7,578.7	0.88	182.29	7,576.2	4,027.0	-0.7	-2.5	-0.7	0.11	436,014.22	774,865.82	
Brushy Canyon											
7,601.0	0.90	182.80	7,598.5	4,049.3	-1.0	-2.5	-1.0	0.11	436,013.87	774,865.80	
7,696.0	1.00	168.80	7,693.5	4,144.3	-2.6	-2.4	-2.6	0.27	436,012.31	774,865.93	
7,791.0	0.20	167.00	7,788.5	4,239.3	-3.6	-2.2	-3.5	0.84	436,011.34	774,866.12	
7,886.0	0.40	174.20	7,883.5	4,334.3	-4.1	-2.1	-4.0	0.21	436,010.85	774,866.19	
7,980.0	0.40	197.40	7,977.5	4,428.3	-4.7	-2.2	-4.7	0.17	436,010.21	774,866.13	
8,075.0	0.50	191.30	8,072.5	4,523.3	-5.4	-2.3	-5.4	0.12	436,009.48	774,865.95	
8,170.0	0.50	201.10	8,167.5	4,618.3	-6.2	-2.6	-6.2	0.09	436,008.69	774,865.72	
8,265.0	0.60	346.50	8,262.5	4,713.3	-6.1	-2.8	-6.1	1.11	436,008.79	774,865.45	
8,359.0	0.40	354.10	8,356.5	4,807.3	-5.3	-3.0	-5.3	0.22	436,009.59	774,865.30	
8,453.0	0.30	336.10	8,450.5	4,901.3	-4.8	-3.1	-4.7	0.16	436,010.14	774,865.17	
8,548.0	0.30	337.40	8,545.5	4,996.3	-4.3	-3.3	-4.3	0.01	436,010.60	774,864.97	
8,643.0	0.30	259.30	8,640.5	5,091.3	-4.1	-3.7	-4.1	0.40	436,010.78	774,864.63	
8,738.0	0.40	241.70	8,735.5	5,186.3	-4.3	-4.2	-4.3	0.15	436,010.58	774,864.10	
8,833.0	0.40	230.00	8,830.5	5,281.3	-4.7	-4.7	-4.6	0.09	436,010.21	774,863.55	
8,928.0	0.60	226.30	8,925.5	5,376.3	-5.3	-5.4	-5.2	0.21	436,009.65	774,862.94	
9,023.0	0.40	32.60	9,020.5	5,471.3	-5.3	-5.5	-5.2	1.05	436,009.59	774,862.76	
9,108.7	0.31	16.36	9,106.2	5,557.0	-4.8	-5.3	-4.8	0.16	436,010.06	774,862.98	
Bone Spring											
9,117.0	0.30	14.30	9,114.5	5,565.3	-4.8	-5.3	-4.7	0.16	436,010.10	774,863.00	

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Jackson Unit 28H
Project:	Jackson Unit Section 21	TVD Reference:	WELL @ 3549.2usft (Original Well Elev)
Site:	Jackson Unit 28H	MD Reference:	WELL @ 3549.2usft (Original Well Elev)
Well:	Jackson Unit #28H	North Reference:	Grid
Wellbore:	Jackson Unit #28H	Survey Calculation Method:	Minimum Curvature
Design:	Jackson Unit #28H	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)	
9,212.0	0.70	57.70	9,209.5	5,660.3	-4.3	-4.8	-4.2	0.55	436,010.65	774,863.55	
9,220.7	0.71	58.48	9,218.2	5,669.0	-4.2	-4.7	-4.1	0.15	436,010.71	774,863.64	
Avalon Shale											
9,307.0	0.80	65.20	9,304.5	5,755.3	-3.7	-3.7	-3.6	0.15	436,011.24	774,864.64	
9,402.0	0.90	83.50	9,399.5	5,850.3	-3.3	-2.3	-3.3	0.30	436,011.61	774,865.98	
9,497.0	0.90	98.80	9,494.4	5,945.2	-3.3	-0.8	-3.3	0.25	436,011.58	774,867.46	
9,592.0	0.30	110.80	9,589.4	6,040.2	-3.5	0.1	-3.5	0.64	436,011.37	774,868.43	
9,687.0	0.80	289.00	9,684.4	6,135.2	-3.4	-0.3	-3.4	1.16	436,011.50	774,868.04	
9,782.0	2.60	275.50	9,779.4	6,230.2	-3.0	-3.0	-2.9	1.93	436,011.92	774,865.26	
9,877.0	2.00	242.30	9,874.3	6,325.1	-3.5	-6.6	-3.5	1.51	436,011.36	774,861.65	
9,972.0	1.40	221.00	9,969.3	6,420.1	-5.2	-8.9	-5.1	0.91	436,009.71	774,859.42	
10,067.0	2.00	220.50	10,064.2	6,515.0	-7.3	-10.7	-7.2	0.63	436,007.58	774,857.59	
10,140.0	2.30	227.22	10,137.2	6,588.0	-9.3	-12.6	-9.1	0.54	436,005.61	774,855.68	
1st Bone Spring											
10,162.0	2.40	228.90	10,159.2	6,610.0	-9.9	-13.3	-9.7	0.54	436,005.01	774,855.01	
10,257.0	1.90	235.90	10,254.1	6,704.9	-12.1	-16.1	-11.9	0.59	436,002.82	774,852.21	
10,352.0	1.70	229.80	10,349.1	6,799.9	-13.9	-18.5	-13.6	0.29	436,001.03	774,849.83	
10,382.0	1.40	222.60	10,379.0	6,829.8	-14.4	-19.1	-14.2	1.19	436,000.47	774,849.24	
10,416.0	1.40	221.50	10,413.0	6,863.8	-15.1	-19.6	-14.8	0.08	435,999.85	774,848.68	
10,447.0	1.40	312.20	10,444.0	6,894.8	-15.1	-20.1	-14.8	6.43	435,999.82	774,848.15	
10,479.0	5.80	359.50	10,476.0	6,926.8	-13.2	-20.5	-12.9	15.49	436,001.70	774,847.85	
10,511.0	10.50	3.90	10,507.6	6,958.4	-8.7	-20.3	-8.4	14.81	436,006.23	774,848.03	
10,542.0	14.80	5.80	10,537.9	6,988.7	-1.9	-19.7	-1.6	13.93	436,012.99	774,848.62	
10,574.0	19.50	7.60	10,568.4	7,019.2	7.5	-18.6	7.7	14.78	436,022.36	774,849.74	
10,606.0	24.00	5.70	10,598.2	7,049.0	19.2	-17.2	19.5	14.23	436,034.13	774,851.10	
10,638.0	28.20	3.70	10,626.9	7,077.7	33.3	-16.1	33.5	13.41	436,048.16	774,852.23	
10,670.0	33.60	2.80	10,654.3	7,105.1	49.7	-15.1	49.9	16.94	436,064.56	774,853.15	

Company: Murchison Oil and Gas
Project: Jackson Unit Section 21
Site: Jackson Unit 28H
Well: Jackson Unit #28H
Wellbore: Jackson Unit #28H
Design: Jackson Unit #28H

Local Co-ordinate Reference: Site Jackson Unit 28H
TVD Reference: WELL @ 3549.2usft (Original Well Elev)
MD Reference: WELL @ 3549.2usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
10,701.0	38.40	2.50	10,679.4	7,130.2	67.9	-14.3	68.0	15.49	436,082.76	774,853.99	
10,733.0	43.30	1.30	10,703.6	7,154.4	88.8	-13.6	88.9	15.51	436,103.67	774,854.67	
10,765.0	47.00	0.60	10,726.2	7,177.0	111.4	-13.3	111.6	11.67	436,126.35	774,855.05	
10,797.0	50.40	0.40	10,747.3	7,198.1	135.5	-13.0	135.6	10.64	436,150.39	774,855.26	
10,829.0	53.00	359.70	10,767.1	7,217.9	160.6	-13.0	160.8	8.30	436,175.50	774,855.27	
10,829.1	53.00	359.70	10,767.2	7,218.0	160.7	-13.0	160.9	0.00	436,175.61	774,855.27	
2nd Bone Spring											
10,860.0	55.10	358.60	10,785.3	7,236.1	185.7	-13.4	185.8	7.39	436,200.59	774,854.90	
10,891.0	59.50	358.10	10,802.1	7,252.9	211.7	-14.2	211.9	14.26	436,226.66	774,854.15	
10,923.0	64.50	357.70	10,817.1	7,267.9	240.0	-15.2	240.2	15.66	436,254.88	774,853.11	
10,953.0	68.10	358.10	10,829.1	7,279.9	267.4	-16.2	267.6	12.06	436,282.33	774,852.10	
10,985.0	71.80	358.30	10,840.1	7,290.9	297.5	-17.1	297.7	11.58	436,312.37	774,851.16	
11,016.0	74.80	358.30	10,849.0	7,299.8	327.1	-18.0	327.4	9.68	436,342.05	774,850.28	
11,048.0	78.40	357.90	10,856.4	7,307.2	358.2	-19.1	358.5	11.32	436,373.15	774,849.25	
11,080.0	80.40	358.10	10,862.3	7,313.1	389.7	-20.2	389.9	6.28	436,404.59	774,848.15	
11,112.0	81.80	358.50	10,867.3	7,318.1	421.3	-21.1	421.5	4.55	436,436.18	774,847.21	
11,143.0	83.50	358.80	10,871.2	7,322.0	452.0	-21.8	452.3	5.57	436,466.92	774,846.49	
11,175.0	85.50	359.20	10,874.3	7,325.1	483.9	-22.4	484.1	6.37	436,498.77	774,845.93	
11,206.0	86.70	359.70	10,876.4	7,327.2	514.8	-22.7	515.1	4.19	436,529.69	774,845.63	
11,238.0	88.50	359.30	10,877.7	7,328.5	546.8	-22.9	547.0	5.76	436,561.66	774,845.35	
11,270.0	91.00	359.70	10,877.9	7,328.7	578.8	-23.2	579.0	7.91	436,593.66	774,845.08	
11,301.0	91.50	359.90	10,877.2	7,328.0	609.7	-23.3	610.0	1.74	436,624.65	774,844.97	
11,365.0	90.70	359.50	10,876.0	7,326.8	673.7	-23.7	674.0	1.40	436,688.64	774,844.63	
11,397.0	90.90	359.20	10,875.5	7,326.3	705.7	-24.0	706.0	1.13	436,720.63	774,844.27	
11,470.0	90.00	357.90	10,875.0	7,325.8	778.7	-25.9	779.0	2.17	436,793.60	774,842.42	
11,493.0	90.10	358.50	10,874.9	7,325.7	801.7	-26.6	802.0	2.64	436,816.59	774,841.70	
11,588.0	90.90	357.70	10,874.1	7,324.9	896.6	-29.7	897.0	1.19	436,911.54	774,838.55	

Company: Murchison Oil and Gas
Project: Jackson Unit Section 21
Site: Jackson Unit 28H
Well: Jackson Unit #28H
Wellbore: Jackson Unit #28H
Design: Jackson Unit #28H

Local Co-ordinate Reference: Site Jackson Unit 28H
TVD Reference: WELL @ 3549.2usft (Original Well Elev)
MD Reference: WELL @ 3549.2usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
11,683.0	89.90	358.10	10,873.4	7,324.2	991.6	-33.2	991.9	1.13	437,006.47	774,835.07	
11,779.0	89.30	358.60	10,874.1	7,324.9	1,087.5	-36.0	1,087.9	0.81	437,102.42	774,832.31	
11,874.0	90.30	358.50	10,874.4	7,325.2	1,182.5	-38.4	1,182.9	1.06	437,197.39	774,829.90	
11,970.0	89.90	357.60	10,874.3	7,325.1	1,278.4	-41.7	1,278.9	1.03	437,293.34	774,826.63	
12,066.0	89.20	358.30	10,875.0	7,325.8	1,374.4	-45.1	1,374.9	1.03	437,389.27	774,823.20	
12,161.0	90.50	357.70	10,875.3	7,326.1	1,469.3	-48.4	1,469.8	1.51	437,484.21	774,819.89	
12,256.0	89.70	357.90	10,875.1	7,325.9	1,564.2	-52.1	1,564.8	0.87	437,579.14	774,816.24	
12,351.0	90.70	357.90	10,874.8	7,325.6	1,659.2	-55.5	1,659.8	1.05	437,674.07	774,812.76	
12,447.0	90.20	357.40	10,874.0	7,324.8	1,755.1	-59.5	1,755.7	0.74	437,769.99	774,808.82	
12,542.0	89.30	356.90	10,874.4	7,325.2	1,850.0	-64.2	1,850.7	1.08	437,864.87	774,804.10	
12,637.0	90.50	356.30	10,874.6	7,325.4	1,944.8	-69.8	1,945.6	1.41	437,959.70	774,798.46	
12,733.0	90.30	358.10	10,873.9	7,324.7	2,040.7	-74.5	2,041.5	1.89	438,055.58	774,793.77	
12,829.0	89.30	359.30	10,874.3	7,325.1	2,136.6	-76.7	2,137.5	1.63	438,151.55	774,791.60	
12,925.0	89.70	359.70	10,875.1	7,325.9	2,232.6	-77.5	2,233.5	0.59	438,247.54	774,790.76	
13,020.0	88.70	359.90	10,876.4	7,327.2	2,327.6	-77.9	2,328.5	1.07	438,342.53	774,790.43	
13,116.0	89.60	359.50	10,877.9	7,328.7	2,423.6	-78.4	2,424.5	1.03	438,438.52	774,789.92	
13,211.0	89.30	359.70	10,878.8	7,329.6	2,518.6	-79.0	2,519.5	0.38	438,533.51	774,789.26	
13,306.0	90.00	359.50	10,879.4	7,330.2	2,613.6	-79.7	2,614.5	0.77	438,628.51	774,788.60	
13,402.0	88.80	359.30	10,880.4	7,331.2	2,709.6	-80.7	2,710.4	1.27	438,724.49	774,787.59	
13,497.0	89.90	359.50	10,881.4	7,332.2	2,804.6	-81.7	2,805.4	1.18	438,819.48	774,786.60	
13,593.0	88.80	359.30	10,882.5	7,333.3	2,900.6	-82.7	2,901.4	1.16	438,915.47	774,785.59	
13,689.0	90.00	358.80	10,883.5	7,334.3	2,996.5	-84.3	2,997.4	1.35	439,011.45	774,784.00	
13,785.0	89.20	359.00	10,884.2	7,335.0	3,092.5	-86.1	3,093.4	0.86	439,107.43	774,782.16	
13,880.0	90.30	358.60	10,884.6	7,335.4	3,187.5	-88.1	3,188.4	1.23	439,202.40	774,780.17	
13,976.0	89.70	358.60	10,884.6	7,335.4	3,283.5	-90.5	3,284.4	0.62	439,298.37	774,777.82	
14,071.0	89.50	358.80	10,885.3	7,336.1	3,378.4	-92.6	3,379.4	0.30	439,393.35	774,775.67	
14,167.0	89.40	358.80	10,886.2	7,337.0	3,474.4	-94.6	3,475.4	0.10	439,489.32	774,773.66	

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Jackson Unit 28H
Project:	Jackson Unit Section 21	TVD Reference:	WELL @ 3549.2usft (Original Well Elev)
Site:	Jackson Unit 28H	MD Reference:	WELL @ 3549.2usft (Original Well Elev)
Well:	Jackson Unit #28H	North Reference:	Grid
Wellbore:	Jackson Unit #28H	Survey Calculation Method:	Minimum Curvature
Design:	Jackson Unit #28H	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)	
14,263.0	89.10	358.10	10,887.5	7,338.3	3,570.4	-97.2	3,571.4	0.79	439,585.28	774,771.06	
14,358.0	90.20	358.10	10,888.0	7,338.8	3,665.3	-100.4	3,666.4	1.16	439,680.22	774,767.91	
14,453.0	90.10	358.80	10,887.8	7,338.6	3,760.3	-103.0	3,761.4	0.74	439,775.19	774,765.34	
14,548.0	90.90	358.80	10,887.0	7,337.8	3,855.3	-104.9	3,856.3	0.84	439,870.16	774,763.35	
14,643.0	90.70	358.60	10,885.6	7,336.4	3,950.2	-107.1	3,951.3	0.30	439,965.13	774,761.20	
14,739.0	90.40	359.20	10,884.7	7,335.5	4,046.2	-108.9	4,047.3	0.70	440,061.11	774,759.36	
14,834.0	91.80	359.70	10,882.9	7,333.7	4,141.2	-109.9	4,142.3	1.56	440,156.08	774,758.44	
14,929.0	90.40	0.00	10,881.1	7,331.9	4,236.2	-110.1	4,237.3	1.51	440,251.06	774,758.19	
15,025.0	90.30	0.90	10,880.5	7,331.3	4,332.1	-109.3	4,333.3	0.94	440,347.05	774,758.95	
15,121.0	90.70	0.40	10,879.6	7,330.4	4,428.1	-108.3	4,429.2	0.67	440,443.04	774,760.04	
15,216.0	90.90	0.70	10,878.3	7,329.1	4,523.1	-107.3	4,524.2	0.38	440,538.03	774,760.95	
15,312.0	90.90	0.20	10,876.8	7,327.6	4,619.1	-106.6	4,620.1	0.52	440,634.02	774,761.70	
15,407.0	90.70	0.00	10,875.5	7,326.3	4,714.1	-106.4	4,715.1	0.30	440,729.01	774,761.87	
15,448.0	91.50	359.90	10,874.7	7,325.5	4,755.1	-106.5	4,756.1	1.97	440,770.00	774,761.83	
15,492.0	91.50	359.90	10,873.5	7,324.3	4,799.1	-106.5	4,800.1	0.00	440,813.98	774,761.76	
5 1/2"											
15,500.0	91.50	359.90	10,873.3	7,324.1	4,807.1	-106.6	4,808.1	0.00	440,821.98	774,761.74	

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
5,138.0	5,135.7	9 5/8"	9-5/8	12-1/4	
1,235.0	1,234.3	13 3/8"	13-3/8	16	
15,492.0	10,873.5	5 1/2"	5-1/2	8-1/2	

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Site Jackson Unit 28H
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Site:	Jackson Unit 28H	MD Reference:	WELL @ 3549.2usft (Original Well Elev)
Well:	Jackson Unit #28H	North Reference:	Grid
Wellbore:	Jackson Unit #28H	Survey Calculation Method:	Minimum Curvature
Design:	Jackson Unit #28H	Database:	EDM 5000.1 Single User Db

Formations				
Measured Depth (usft)	Vertical Depth (usft)	Name	Dip (°)	
1,193.9	1,193.2	Rustler	0.00	
5,127.5	5,125.2	Delaware	0.00	
9,220.7	9,218.2	Avalon Shale	0.00	
10,140.0	10,137.2	1st Bone Spring	0.00	
6,129.6	6,127.2	Cherry Canyon	0.00	
9,108.7	9,106.2	Bone Spring	0.00	
7,578.7	7,576.2	Brushy Canyon	0.00	
10,829.1	10,767.2	2nd Bone Spring	0.00	

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,788.0	10,741.5	128.6	-13.1	Cross South Hard Boundary@10788ftMD
15,440.0	10,874.9	4,747.1	-106.5	Cross North Hard Boundary@15440ftMD

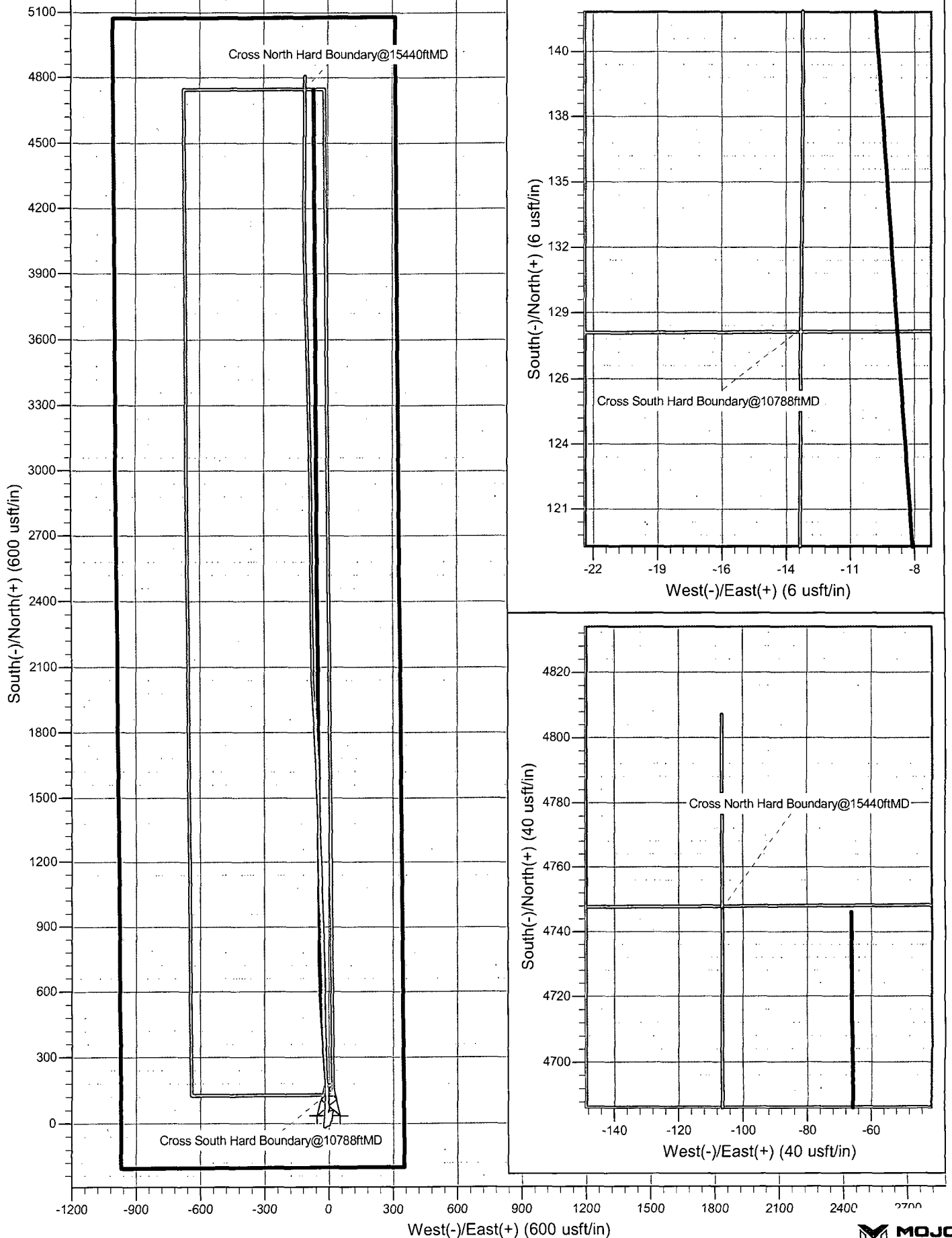
Checked By: _____	Approved By: _____	Date: _____
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Site: Jackson Unit 28H
Well: Jackson Unit #28H
Wellbore: Jackson Unit #28H
Design: Jackson Unit #28H

 **MURCHISON OIL & GAS, INC.**



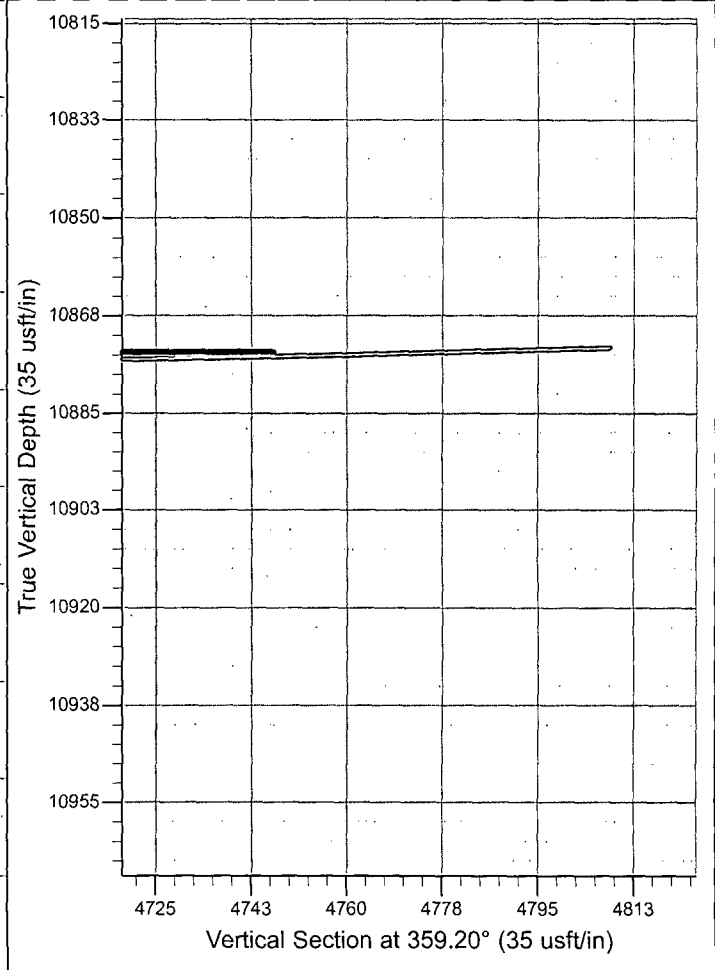
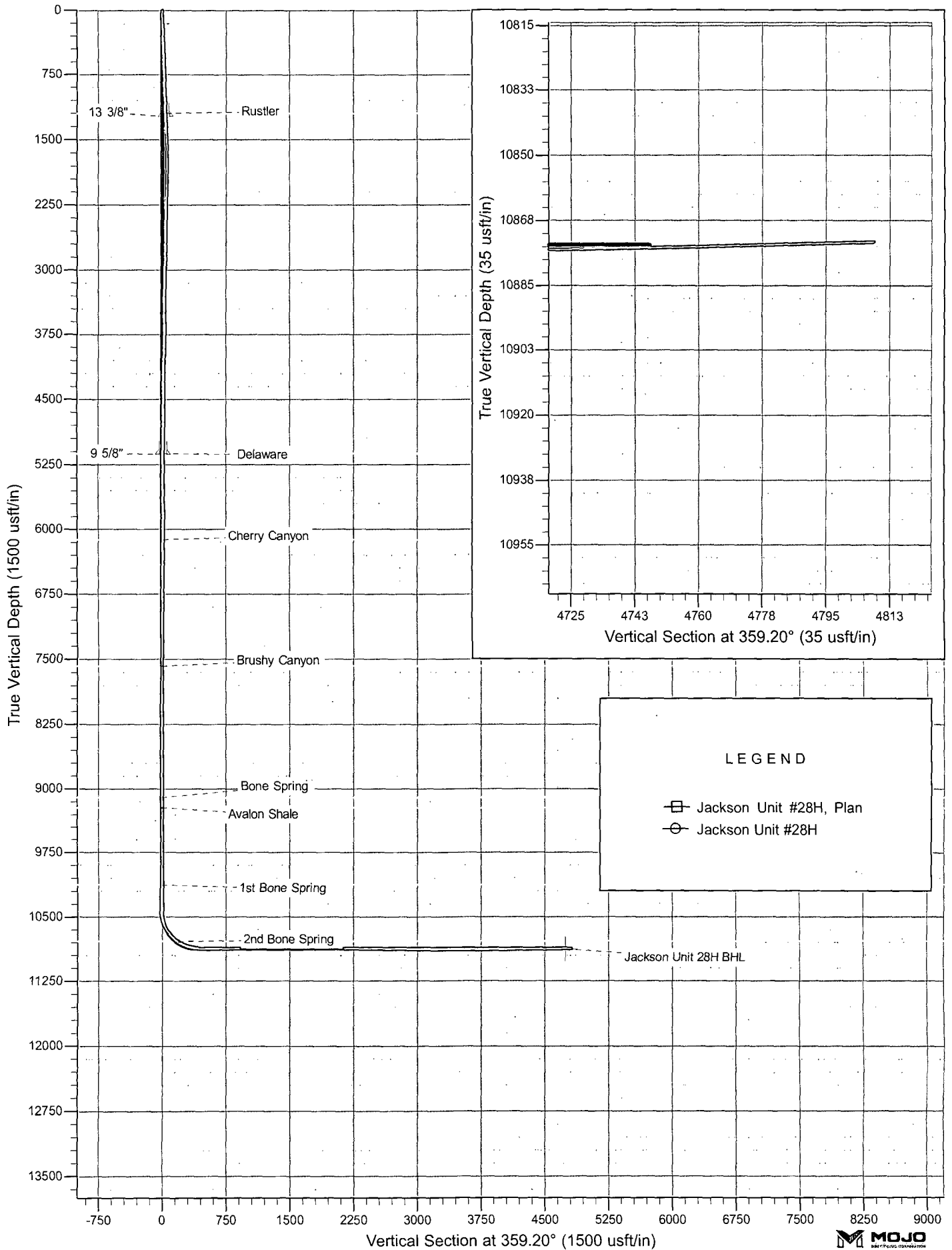
True North: -0.40°
Magnetic North: 6.84°
Magnetic Field
Strength: 48318.8snT
Dip Angle: 60.09°
Date: 31/03/2014
Model: IGRF2010



Site: Jackson Unit 28H
Well: Jackson Unit #28H
Wellbore: Jackson Unit #28H
Design: Jackson Unit #28H



True
Magnetic North: 6.84°
Magnetic Field
Strength: 48318.8snT
Dip Angle: 60.09°
Date: 31/03/2014
Model: IGRF2010



LEGEND

-  Jackson Unit #28H, Plan
-  Jackson Unit #28H