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Murchison Oil and Gas

Paddock
High Nitro
High Nitro 3H
High Nitro 3H

Survey: High Nitro 003H

MOJO Standard Report

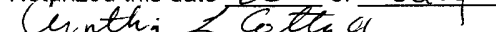
16 July, 2012

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

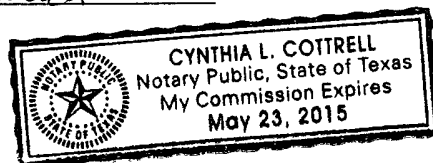


(Signature)

Notarized this date 20th of July, 2012.



Notary Signature
County of Collin
State of Texas



MOJO
DIRECTIONAL CORPORATION

30-015-40160

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Well High Nitro 3H
Project:	Paddock	TVD Reference:	WELL @ 3726.0usft (HWD 4)
Site:	High Nitro	MD Reference:	WELL @ 3726.0usft (HWD 4)
Well:	High Nitro 3H	North Reference:	Gnd
Wellbore:	High Nitro 3H	Survey Calculation Method:	Minimum Curvature
Design:	High Nitro 3H	Database:	EDM 5000 1 Single User Db

Project	Paddock, Horizontal Development Wells		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	High Nitro		
Site Position:		Northing:	675,260.60 usft
From:	Lat/Long	Easting:	606,288.99 usft
Position Uncertainty:	1.0 usft	Slot Radius:	15 "
		Latitude:	32° 51' 22.089 N
		Longitude:	104° 7' 18.536 W
		Grid Convergence:	0.11 °

Well	High Nitro 3H		
Well Position	+N/-S	0.0 usft	Northing: 675,260.60 usft
	+E/-W	0.0 usft	Easting: 606,288.99 usft
Position Uncertainty		0.0 usft	Wellhead Elevation: usft
			Latitude: 32° 51' 22.089 N
			Longitude: 104° 7' 18.536 W
			Ground Level: 3,714.0 usft

Wellbore	High Nitro 3H		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF200510	09/04/2012	7.78
			Dip Angle (°) 60.68
			Field Strength (nT) 48,891

Design	High Nitro 3H		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°) 58.70

Survey Program	Date 16/07/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
411.0	8,144.0	High Nitro 003H (High Nitro 3H)	MWD
			Description MWD - Standard

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Well:	High Nitro 3H	North Reference:	Grid
Wellbore:	High Nitro 3H	Survey Calculation Method:	Minimum Curvature
Design:	High Nitro 3H	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	Closure Azimuth (°)	
0.0	0.00	0.00	0.0	3,726.0	0.0	0.0	675,260.60	606,288.99	0.00	0.00	
373.0	0.27	58.70	373.0	3,353.0	0.5	0.8	675,261.06	606,289.74	0.07	58.70	
9 5/8" Surface Casing											
411.0	0.30	58.70	411.0	3,315.0	0.6	0.9	675,261.15	606,289.91	0.07	58.70	
442.0	0.50	31.40	442.0	3,284.0	0.7	1.1	675,261.31	606,290.05	0.87	55.92	
473.0	0.30	49.40	473.0	3,253.0	0.9	1.2	675,261.48	606,290.18	0.75	53.40	
504.0	0.50	39.60	504.0	3,222.0	1.0	1.3	675,261.64	606,290.33	0.68	52.12	
536.0	0.50	58.00	536.0	3,190.0	1.2	1.5	675,261.82	606,290.53	0.50	51.65	
540.0	0.51	57.26	540.0	3,186.0	1.2	1.6	675,261.84	606,290.56	0.36	51.76	
Top of Salt											
567.0	0.60	53.10	567.0	3,159.0	1.4	1.8	675,261.99	606,290.78	0.36	52.13	
598.0	0.50	76.40	598.0	3,128.0	1.5	2.1	675,262.12	606,291.04	0.78	53.44	
629.0	0.60	75.30	629.0	3,097.0	1.6	2.3	675,262.19	606,291.33	0.32	55.73	
656.0	0.60	80.79	656.0	3,070.0	1.7	2.6	675,262.25	606,291.60	0.21	57.72	
Tansill											
660.0	0.60	81.60	660.0	3,066.0	1.7	2.7	675,262.25	606,291.64	0.21	58.02	
690.0	0.60	81.20	690.0	3,036.0	1.7	3.0	675,262.30	606,291.96	0.01	60.11	
738.0	0.60	82.80	738.0	2,988.0	1.8	3.5	675,262.37	606,292.45	0.03	62.86	
783.0	0.50	85.00	783.0	2,943.0	1.8	3.9	675,262.42	606,292.88	0.23	64.92	
824.0	0.50	97.58	824.0	2,902.0	1.8	4.3	675,262.41	606,293.24	0.27	66.88	
Yates											
828.0	0.50	98.80	828.0	2,898.0	1.8	4.3	675,262.41	606,293.27	0.27	67.10	
873.0	0.60	102.40	873.0	2,853.0	1.7	4.7	675,262.33	606,293.70	0.24	69.83	
918.0	0.60	97.70	918.0	2,808.0	1.6	5.2	675,262.24	606,294.16	0.11	72.33	
963.0	0.70	101.50	963.0	2,763.0	1.6	5.7	675,262.16	606,294.66	0.24	74.62	
1,007.0	0.50	108.40	1,007.0	2,719.0	1.4	6.1	675,262.04	606,295.11	0.48	76.70	
1,052.0	0.40	90.50	1,052.0	2,674.0	1.4	6.5	675,261.98	606,295.45	0.38	77.92	

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Well:	High Nitro 3H	North Reference:	Gnd
Wellbore:	High Nitro 3H	Survey/Calculation Method:	Minimum Curvature
Design:	High Nitro 3H	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	Closure Azimuth (°)	
1,069.0	0 44	95 80	1,069.0	2,657.0	1 4	6.6	675,261.97	606,295.57	0 31	78 20	
Seven Rivers											
1,097.0	0 50	102.80	1,097.0	2,629.0	1 3	6.8	675,261.93	606,295.80	0 31	78 88	
1,142.0	0 40	98 70	1,142.0	2,584.0	1 3	7 2	675,261.87	606,296.15	0 23	79 93	
1,187.0	0 30	74.20	1,187.0	2,539.0	1 3	7 4	675,261.88	606,296.41	0 40	80 22	
1,231.0	0 40	73.10	1,231.0	2,495.0	1 4	7 7	675,261.95	606,296.67	0 23	80 00	
1,275.0	0 30	89 60	1,275.0	2,451.0	1 4	7 9	675,262.00	606,296.93	0 32	80 00	
1,319.0	0 20	89.60	1,319.0	2,407.0	1 4	8 1	675,262.00	606,297.13	0 23	80 22	
1,364.0	0 30	81.80	1,364.0	2,362.0	1 4	8 3	675,262.02	606,297.32	0 23	80 33	
1,409.0	0 20	53.90	1,409.0	2,317.0	1 5	8 5	675,262.08	606,297.50	0 34	80 12	
1,454.0	0 20	86.50	1,454.0	2,272.0	1 5	8 7	675,262.13	606,297.64	0 25	79 95	
1,495.7	0 20	94 20	1,495.7	2,230.3	1 5	8 8	675,262.13	606,297.79	0 06	80 12	
1,499.0	0 20	94 20	1,499.0	2,227.0	1 5	8 8	675,262.13	606,297.80	0 00	80 14	
1,544.0	0 20	111 10	1,544.0	2,182.0	1 5	9 0	675,262.09	606,297.95	0 13	80 51	
1,589.0	0 10	76 10	1,589.0	2,137.0	1 5	9 1	675,262.07	606,298.06	0 29	80 74	
1,609.0	0 13	104 44	1,609.0	2,117.0	1 5	9 1	675,262.07	606,298.10	0 33	80 79	
Queen											
1,634.0	0 20	121.70	1,634.0	2,092.0	1 4	9 2	675,262.04	606,298.17	0 33	81 04	
1,679.0	0 20	109 60	1,679.0	2,047.0	1 4	9 3	675,261.98	606,298.31	0 09	81 58	
1,724.0	0 10	44 80	1,724.0	2,002.0	1 4	9 4	675,261.98	606,298.41	0 40	81 66	
1,769.0	0 10	301 10	1,769.0	1,957.0	1 4	9 4	675,262.03	606,298.40	0 35	81 37	
1,814.0	0 20	311.00	1,814.0	1,912.0	1 5	9 3	675,262.10	606,298.31	0 23	80 85	
1,859.0	0 10	304.90	1,859.0	1,867.0	1 6	9 2	675,262.17	606,298.22	0 22	80 32	
1,904.0	0 40	295 60	1,904.0	1,822.0	1 7	9 1	675,262.26	606,298.05	0 67	79 58	
1,948.0	0 20	281.10	1,948.0	1,778.0	1 7	8 8	675,262.34	606,297.83	0 48	78 83	
1,993.0	0 30	279 90	1,993.0	1,733.0	1 8	8 7	675,262.38	606,297.64	0 22	78 36	

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Well:	High Nitro 3H	North Reference:	Grid
Wellbore:	High Nitro 3H	Survey Calculation Method:	Minimum Curvature
Design:	High Nitro 3H	Database:	EDM 5000 1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	Closure Azimuth (°)	
2,025.0	0.37	269.95	2,025.0	1,701.0	1.8	8.5	675,262.39	606,297.45	0.28	78.02	
Grayburg											
2,039.0	0.40	266.70	2,039.0	1,687.0	1.8	8.4	675,262.39	606,297.36	0.28	77.91	
2,084.0	0.40	298.30	2,084.0	1,642.0	1.9	8.1	675,262.45	606,297.07	0.48	77.04	
2,129.0	0.30	292.30	2,129.0	1,597.0	2.0	7.8	675,262.57	606,296.82	0.24	75.82	
2,174.0	0.30	300.80	2,174.0	1,552.0	2.1	7.6	675,262.68	606,296.61	0.10	74.71	
2,218.0	0.40	315.10	2,218.0	1,508.0	2.3	7.4	675,262.85	606,296.40	0.30	73.11	
2,263.0	0.40	329.20	2,263.0	1,463.0	2.5	7.2	675,263.09	606,296.21	0.22	70.93	
2,308.0	0.30	321.80	2,308.0	1,418.0	2.7	7.1	675,263.32	606,296.06	0.24	68.92	
2,353.0	0.30	333.10	2,353.0	1,373.0	2.9	6.9	675,263.52	606,295.93	0.13	67.18	
2,398.0	0.40	5.00	2,398.0	1,328.0	3.2	6.9	675,263.78	606,295.89	0.48	65.24	
2,411.0	0.37	0.73	2,411.0	1,315.0	3.3	6.9	675,263.87	606,295.90	0.33	64.67	
San Andres											
2,443.0	0.30	346.60	2,443.0	1,283.0	3.5	6.9	675,264.05	606,295.88	0.33	63.37	
2,488.0	0.30	342.40	2,488.0	1,238.0	3.7	6.8	675,264.28	606,295.81	0.05	61.66	
2,533.0	0.40	348.20	2,532.9	1,193.1	3.9	6.8	675,264.54	606,295.75	0.24	59.71	
2,578.0	0.30	348.20	2,577.9	1,148.1	4.2	6.7	675,264.81	606,295.69	0.22	57.83	
2,623.0	0.30	334.40	2,622.9	1,103.1	4.4	6.6	675,265.03	606,295.62	0.16	56.19	
2,668.0	0.40	339.60	2,667.9	1,058.1	4.7	6.5	675,265.29	606,295.51	0.23	54.27	
2,713.0	0.30	333.90	2,712.9	1,013.1	4.9	6.4	675,265.54	606,295.40	0.24	52.38	
2,758.0	0.40	336.60	2,757.9	968.1	5.2	6.3	675,265.79	606,295.29	0.23	50.50	
2,803.0	0.40	342.60	2,802.9	923.1	5.5	6.2	675,266.08	606,295.18	0.09	48.45	
2,848.0	0.30	331.90	2,847.9	878.1	5.7	6.1	675,266.34	606,295.08	0.26	46.68	
2,893.0	0.20	325.40	2,892.9	833.1	5.9	6.0	675,266.51	606,294.98	0.23	45.38	
2,937.0	0.30	354.50	2,936.9	789.1	6.1	5.9	675,266.68	606,294.92	0.36	44.27	
2,983.0	0.20	304.80	2,982.9	743.1	6.3	5.9	675,266.85	606,294.84	0.50	43.13	
3,027.0	0.30	308.80	3,026.9	699.1	6.4	5.7	675,266.97	606,294.69	0.23	41.85	

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Well: High Nitro 3H								North Reference:		Grid	
Wellbore: High Nitro 3H								Survey Calculation Method:		Minimum Curvature	
Design: High Nitro 3H								Database:		EDM 5000 1 Single User Db	
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	Closure Azimuth (°)	
3,072.0	0.10	333.20	3,071.9	654.1	6.5	5.6	675,267.08	606,294.58	0.47	40.81	
3,117.0	0.30	348.70	3,116.9	609.1	6.6	5.6	675,267.23	606,294.54	0.46	39.96	
3,162.0	0.10	337.60	3,161.9	564.1	6.8	5.5	675,267.38	606,294.50	0.45	39.13	
3,207.0	0.30	2.60	3,206.9	519.1	6.9	5.5	675,267.53	606,294.49	0.47	38.45	
3,228.0	0.40	21.10	3,227.9	498.1	7.1	5.5	675,267.65	606,294.52	0.71	38.11	
3,275.0	0.20	4.60	3,274.9	451.1	7.3	5.6	675,267.89	606,294.59	0.46	37.52	
3,320.0	0.70	283.00	3,319.9	406.1	7.4	5.3	675,268.03	606,294.33	1.55	35.69	
3,365.0	5.30	274.90	3,364.9	361.1	7.7	3.0	675,268.27	606,291.99	10.24	21.36	
3,410.0	11.20	271.80	3,409.4	316.6	8.0	-3.4	675,268.58	606,285.54	13.14	336.68	
3,455.0	17.20	266.60	3,453.0	273.0	7.7	-14.5	675,268.33	606,274.52	13.62	298.13	
3,500.0	22.50	266.30	3,495.3	230.7	6.8	-29.7	675,267.38	606,259.28	11.78	282.86	
3,545.0	25.70	266.60	3,536.4	189.6	5.6	-48.0	675,266.24	606,240.94	7.12	276.70	
3,590.0	26.80	267.60	3,576.7	149.3	4.6	-67.9	675,265.24	606,221.07	2.63	273.91	
3,635.0	29.00	268.60	3,616.5	109.5	4.0	-89.0	675,264.55	606,200.03	5.00	272.54	
3,680.0	33.00	269.50	3,655.1	70.9	3.6	-112.1	675,264.17	606,176.86	8.95	271.83	
3,725.0	37.10	270.20	3,691.9	34.1	3.5	-138.0	675,264.11	606,151.03	9.15	271.46	
3,770.0	40.70	271.30	3,726.9	-0.9	3.9	-166.2	675,264.49	606,122.78	8.15	271.34	
3,815.0	43.50	272.50	3,760.3	-34.3	4.9	-196.4	675,265.50	606,092.63	6.47	271.43	
3,823.0	44.07	272.50	3,766.1	-40.1	5.1	-201.9	675,265.74	606,087.10	7.11	271.46	
Glorietta											
3,860.0	46.70	272.50	3,792.1	-66.1	6.3	-228.2	675,266.89	606,060.79	7.11	271.58	
3,913.0	49.79	272.55	3,827.3	-101.3	8.0	-267.7	675,268.63	606,021.30	5.83	271.72	
Paddock											
3,923.0	50.37	272.56	3,833.8	-107.8	8.4	-275.4	675,268.98	606,013.64	5.83	271.74	
7" Intermediate Casing											
3,975.0	53.40	272.60	3,865.9	-139.9	10.2	-316.2	675,270.82	605,972.78	5.83	271.85	
4,017.0	59.70	274.90	3,889.0	-163.0	12.5	-351.2	675,273.13	605,937.84	15.68	272.04	

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Survey											
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4,060.0	66.20	276.60	3,908.5	-182.5	16.4	-389.3	675,276.98	605,899.76	15.52		272.41
4,103.0	69.40	274.40	3,924.8	-198.8	20.2	-428.9	675,280.79	605,860.14	8.82		272.70
4,146.0	72.90	271.30	3,938.7	-212.7	22.2	-469.5	675,282.80	605,819.52	10.62		272.71
4,189.0	76.80	269.70	3,949.9	-223.9	22.6	-511.0	675,283.16	605,778.02	9.75		272.53
4,232.0	80.60	270.30	3,958.3	-232.3	22.6	-553.2	675,283.16	605,735.87	8.94		272.34
4,275.0	83.30	271.20	3,964.4	-238.4	23.1	-595.7	675,283.72	605,693.31	6.61		272.22
4,318.0	87.00	271.20	3,968.0	-242.0	24.0	-638.6	675,284.61	605,650.48	8.60		272.15
4,361.0	90.30	271.80	3,969.0	-243.0	25.1	-681.5	675,285.74	605,607.52	7.80		272.11
4,404.0	91.00	272.20	3,968.5	-242.5	26.6	-724.5	675,287.24	605,564.55	1.87		272.11
4,447.0	91.00	272.00	3,967.8	-241.8	28.2	-767.5	675,288.81	605,521.59	0.47		272.11
4,490.0	90.90	272.10	3,967.1	-241.1	29.8	-810.4	675,290.35	605,478.63	0.33		272.10
4,533.0	93.00	272.40	3,965.6	-239.6	31.4	-853.4	675,292.04	605,435.69	4.93		272.11
4,576.0	93.60	272.50	3,963.1	-237.1	33.3	-896.3	675,293.87	605,392.80	1.41		272.13
4,619.0	93.70	271.40	3,960.4	-234.4	34.7	-939.1	675,295.33	605,349.92	2.56		272.12
4,662.0	92.50	270.40	3,958.1	-232.1	35.4	-982.1	675,296.01	605,306.99	3.63		272.07
4,705.0	90.30	270.30	3,957.0	-231.0	35.7	-1,025.1	675,296.27	605,264.01	5.12		271.99
4,748.0	90.50	270.60	3,956.7	-230.7	36.0	-1,068.1	675,296.61	605,221.02	0.84		271.93
4,791.0	90.10	270.70	3,956.5	-230.5	36.5	-1,111.1	675,297.10	605,178.03	0.96		271.88
4,834.0	90.50	271.40	3,956.3	-230.3	37.3	-1,154.0	675,297.88	605,135.04	1.87		271.85
4,877.0	91.60	271.50	3,955.5	-229.5	38.4	-1,197.0	675,298.97	605,092.06	2.57		271.84
4,920.0	91.00	271.00	3,954.5	-228.5	39.3	-1,240.0	675,299.91	605,049.09	1.82		271.82
4,963.0	90.40	271.00	3,954.0	-228.0	40.1	-1,283.0	675,300.66	605,006.10	1.40		271.79
5,007.0	90.30	271.30	3,953.7	-227.7	41.0	-1,327.0	675,301.54	604,962.12	0.72		271.77
5,050.0	92.00	272.20	3,952.8	-226.8	42.3	-1,370.0	675,302.86	604,919.15	4.47		271.77
5,093.0	91.80	272.20	3,951.4	-225.4	43.9	-1,412.9	675,304.50	604,876.21	0.47		271.78
5,136.0	91.50	272.00	3,950.2	-224.2	45.5	-1,455.9	675,306.08	604,833.26	0.84		271.79
5,178.0	91.20	271.60	3,949.2	-223.2	46.8	-1,497.8	675,307.40	604,791.30	1.19		271.79

Company: Murchison Oil and Gas		Local Co-ordinate Reference: Well High Nitro 3H	
Project: Paddock		TVD Reference: WELL @ 3726.0usft (HWD 4)	
Site: High Nitro		MD Reference: WELL @ 3726.0usft (HWD 4)	
Well: High Nitro 3H		North Reference: Grid	
Wellbore: High Nitro 3H		Survey Calculation Method: Minimum Curvature	
Design: High Nitro 3H		Database: EDM 5000 1 Single User Db	

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	Closure Azimuth (°)	
5,221.0	90.90	271.60	3,948.4	-222.4	48.0	-1,540.8	675,308.60	604,748.32	0.70	271.78	
5,264.0	91.30	272.00	3,947.6	-221.6	49.4	-1,583.8	675,309.95	604,705.36	1.32	271.79	
5,307.0	91.80	272.10	3,946.4	-220.4	50.9	-1,626.7	675,311.49	604,662.40	1.19	271.79	
5,350.0	91.70	271.80	3,945.1	-219.1	52.4	-1,669.7	675,312.95	604,619.45	0.74	271.80	
5,395.0	92.00	272.20	3,943.6	-217.6	53.9	-1,714.6	675,314.52	604,574.51	1.11	271.80	
5,440.0	91.90	271.90	3,942.1	-216.1	55.5	-1,759.6	675,316.13	604,529.57	0.70	271.81	
5,485.0	90.80	271.90	3,941.1	-215.1	57.0	-1,804.5	675,317.62	604,484.61	2.44	271.81	
5,530.0	91.00	271.80	3,940.3	-214.3	58.5	-1,849.5	675,319.07	604,439.64	0.50	271.81	
5,574.0	91.20	271.70	3,939.5	-213.5	59.8	-1,893.5	675,320.41	604,395.67	0.51	271.81	
5,620.0	91.50	272.40	3,938.4	-212.4	61.5	-1,939.4	675,322.06	604,349.72	1.66	271.82	
5,665.0	91.20	272.70	3,937.4	-211.4	63.5	-1,984.4	675,324.06	604,304.78	0.94	271.83	
5,710.0	91.20	272.50	3,936.4	-210.4	65.5	-2,029.3	675,326.10	604,259.84	0.44	271.85	
5,755.0	91.60	272.10	3,935.3	-209.3	67.3	-2,074.3	675,327.91	604,214.90	1.26	271.86	
5,799.0	91.30	271.70	3,934.2	-208.2	68.8	-2,118.2	675,329.36	604,170.94	1.14	271.86	
5,844.0	91.00	271.10	3,933.3	-207.3	69.9	-2,163.2	675,330.46	604,125.96	1.49	271.85	
5,890.0	90.50	270.80	3,932.7	-206.7	70.6	-2,209.2	675,331.23	604,079.98	1.27	271.83	
5,935.0	90.80	271.20	3,932.2	-206.2	71.4	-2,254.2	675,332.01	604,034.99	1.11	271.81	
5,979.0	91.40	272.00	3,931.3	-205.3	72.7	-2,298.2	675,333.24	603,991.02	2.27	271.81	
6,024.0	90.60	271.00	3,930.6	-204.6	73.8	-2,343.1	675,334.42	603,946.05	2.85	271.80	
6,069.0	91.40	272.10	3,929.8	-203.8	75.0	-2,388.1	675,335.63	603,901.08	3.02	271.80	
6,114.0	92.00	272.50	3,928.4	-202.4	76.9	-2,433.1	675,337.44	603,856.14	1.60	271.81	
6,160.0	91.50	271.80	3,927.0	-201.0	78.6	-2,479.0	675,339.16	603,810.20	1.87	271.82	
6,205.0	91.20	271.20	3,926.0	-200.0	79.8	-2,524.0	675,340.34	603,765.23	1.49	271.81	
6,250.0	91.10	271.00	3,925.1	-199.1	80.6	-2,569.0	675,341.20	603,720.25	0.50	271.80	
6,295.0	92.10	273.00	3,923.8	-197.8	82.2	-2,613.9	675,342.77	603,675.30	4.97	271.80	
6,340.0	92.50	272.90	3,922.0	-196.0	84.5	-2,658.8	675,345.09	603,630.40	0.92	271.82	
6,385.0	92.40	272.30	3,920.1	-194.1	86.5	-2,703.7	675,347.13	603,585.49	1.35	271.83	

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Well High Nitro 3H
Project:	Paddock	TVD Reference:	WELL @ 3726.0usft (HWD 4)
Site:	High Nitro	MD Reference:	WELL @ 3726.0usft (HWD 4)
Well:	High Nitro 3H	North Reference:	Grid
Wellbore:	High Nitro 3H	Survey Calculation Method:	Minimum Curvature
Design:	High Nitro 3H	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	Northing (usft)	Easting (usft)	DLeg (%/100usft)	Closure Azimuth (°)	
6,430.0	91.80	273.40	3,918.4	-192.4	88.8	-2,748.6	675,349.36	603,540.58	2.78	271.85	
6,475.0	91.20	273.20	3,917.3	-191.3	91.4	-2,793.6	675,351.95	603,495.68	1.41	271.87	
6,520.0	89.60	273.40	3,916.9	-190.9	94.0	-2,838.5	675,354.54	603,450.76	3.58	271.90	
6,565.0	89.70	273.30	3,917.2	-191.2	96.6	-2,883.4	675,357.17	603,405.84	0.31	271.92	
6,610.0	89.70	273.10	3,917.5	-191.5	99.1	-2,928.3	675,359.68	603,360.91	0.44	271.94	
6,655.0	90.80	274.00	3,917.3	-191.3	101.9	-2,973.2	675,362.47	603,316.01	3.16	271.96	
6,700.0	92.40	274.30	3,916.0	-190.0	105.1	-3,018.1	675,365.72	603,271.15	3.62	272.00	
6,744.0	92.60	273.80	3,914.1	-188.1	108.2	-3,061.9	675,368.83	603,227.30	1.22	272.02	
6,789.0	92.60	272.50	3,912.0	-186.0	110.7	-3,106.8	675,371.30	603,182.42	2.89	272.04	
6,834.0	92.30	272.20	3,910.1	-184.1	112.6	-3,151.8	675,373.14	603,137.50	0.94	272.05	
6,879.0	92.10	272.20	3,908.4	-182.4	114.3	-3,196.7	675,374.87	603,092.57	0.44	272.05	
6,924.0	92.30	272.50	3,906.7	-180.7	116.1	-3,241.6	675,376.71	603,047.65	0.80	272.05	
6,969.0	92.20	272.60	3,904.9	-178.9	118.1	-3,286.5	675,378.71	603,002.73	0.31	272.06	
7,014.0	91.20	272.50	3,903.6	-177.6	120.1	-3,331.5	675,380.71	602,957.80	2.23	272.07	
7,059.0	91.00	272.40	3,902.7	-176.7	122.1	-3,376.4	675,382.64	602,912.85	0.50	272.07	
7,104.0	91.30	272.70	3,901.8	-175.8	124.1	-3,421.4	675,384.64	602,867.91	0.94	272.08	
7,149.0	91.20	272.60	3,900.8	-174.8	126.1	-3,466.3	675,386.72	602,822.97	0.31	272.08	
7,194.0	91.10	272.60	3,899.9	-173.9	128.2	-3,511.3	675,388.76	602,778.03	0.22	272.09	
7,239.0	90.80	272.70	3,899.2	-173.2	130.3	-3,556.2	675,390.84	602,733.09	0.70	272.10	
7,284.0	90.70	271.80	3,898.6	-172.6	132.0	-3,601.2	675,392.60	602,688.14	2.01	272.10	
7,329.0	90.40	270.90	3,898.1	-172.1	133.1	-3,646.1	675,393.66	602,643.15	2.11	272.09	
7,374.0	89.90	270.30	3,898.0	-172.0	133.6	-3,691.1	675,394.14	602,598.16	1.74	272.07	
7,418.0	89.20	269.90	3,898.4	-172.4	133.6	-3,735.1	675,394.21	602,554.17	1.83	272.05	
7,463.0	89.60	270.00	3,898.8	-172.8	133.6	-3,780.1	675,394.17	602,509.17	0.92	272.02	
7,508.0	91.90	270.70	3,898.2	-172.2	133.9	-3,825.1	675,394.45	602,464.18	5.34	272.00	
7,553.0	90.50	270.00	3,897.3	-171.3	134.1	-3,870.1	675,394.72	602,419.20	3.48	271.99	
7,598.0	89.60	270.10	3,897.3	-171.3	134.2	-3,915.1	675,394.76	602,374.21	2.01	271.96	

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Well High Nitro 3H
Project:	Paddock	TVD Reference:	WELL @ 3726.0usft (HWD 4)
Site:	High Nitro	MD Reference:	WELL @ 3726.0usft (HWD 4)
Well:	High Nitro 3H	North Reference:	Grid
Wellbore:	High Nitro 3H	Survey Calculation Method:	Minimum Curvature
Design:	High Nitro 3H	Database:	EDM 5000 1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	Closure Azimuth (°)	
7,643.0	90.00	270.90	3,897.4	-171.4	134.6	-3,960.1	675,395.15	602,329.21	1.99	271.95	
7,688.0	90.40	271.90	3,897.3	-171.3	135.7	-4,005.1	675,396.25	602,284.23	2.39	271.94	
7,733.0	90.60	272.00	3,896.9	-170.9	137.2	-4,050.1	675,397.79	602,239.26	0.50	271.94	
7,778.0	90.80	272.00	3,896.3	-170.3	138.8	-4,095.0	675,399.36	602,194.30	0.44	271.94	
7,823.0	90.60	272.60	3,895.8	-169.8	140.6	-4,140.0	675,401.16	602,149.34	1.41	271.94	
7,868.0	90.20	272.50	3,895.5	-169.5	142.6	-4,185.0	675,403.16	602,104.39	0.92	271.95	
7,913.0	89.40	271.60	3,895.6	-169.6	144.2	-4,229.9	675,404.77	602,059.42	2.68	271.95	
7,958.0	89.50	272.10	3,896.0	-170.0	145.6	-4,274.9	675,406.23	602,014.45	1.13	271.95	
8,003.0	90.50	272.10	3,896.0	-170.0	147.3	-4,319.9	675,407.87	601,969.49	2.22	271.95	
8,048.0	90.20	272.20	3,895.8	-169.8	149.0	-4,364.8	675,409.56	601,924.52	0.70	271.95	
8,093.0	90.40	272.90	3,895.5	-169.5	151.0	-4,409.8	675,411.56	601,879.57	1.62	271.96	
8,144.0	90.63	273.69	3,895.1	-169.1	153.9	-4,460.7	675,414.49	601,828.66	1.61	271.98	

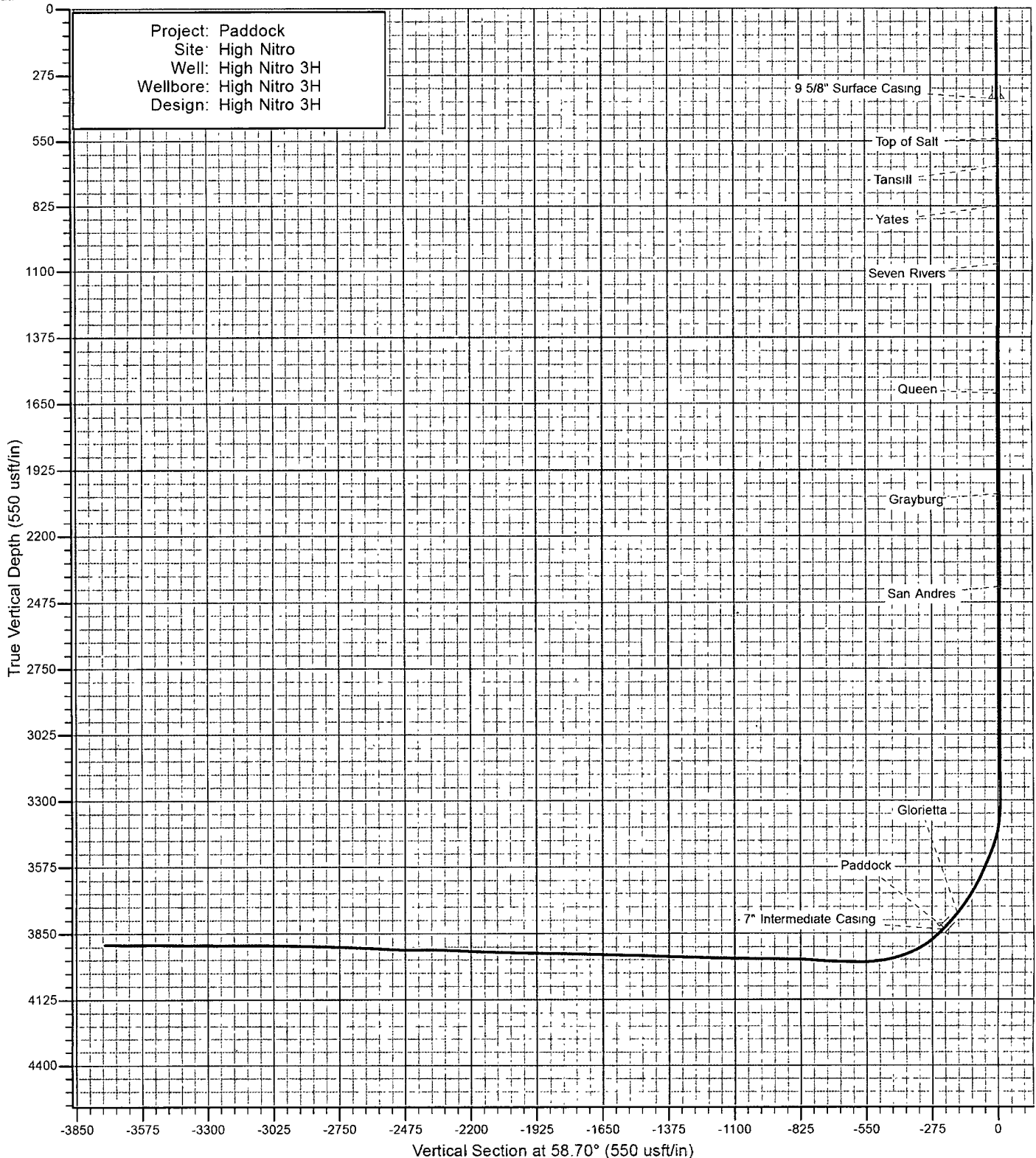
Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
373.0	373.0	9 5/8" Surface Casing	9-5/8	12-1/4	
3,923.0	3,833.8	7" Intermediate Casing	7	8-3/4	

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Well High Nitro 3H
Project:	Paddock	TVD Reference:	WELL @ 3726.0usft (HWD 4)
Site:	High Nitro	MD Reference:	WELL @ 3726.0usft (HWD 4)
Well:	High Nitro 3H	North Reference:	Grid
Wellbore:	High Nitro 3H	Survey Calculation Method:	Minimum Curvature
Design:	High Nitro 3H	Database:	EDM 5000.1 Single User Db

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
824.0	824.0	Yates		0.00		
2,025.0	2,025.0	Grayburg		0.00		
1,069.0	1,069.0	Seven Rivers		0.00		
3,913.0	3,827.3	Paddock	Dolomite	0.00		
2,411.0	2,411.0	San Andres		0.00		
656.0	656.0	Tansill		0.00		
1,609.0	1,609.0	Queen		0.00		
540.0	540.0	Top of Salt	Salt	0.00		
3,823.0	3,766.1	Glonetta		0.00		

Checked By: _____	Approved By: _____	Date: _____
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	Azimuths to Grid North True North: -0 12° Magnetic North: 7 66°	COMPANY DETAILS: Murchison Oil and Gas	PROJECT DETAILS: Paddock
	Magnetic Field Strength: 48890.8snT Dip Angle: 60 68° Date: 09/04/2012 Model: IGRF200510	Drilling Calculation Method: Minimum Curvature Error System: ISCWSA Scan Method: Closest Approach 3D Error Surface: Elliptical Conic Warning Method: Error Ratio	Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: New Mexico Eastern Zone System Datum: Mean Sea Level



	Azimuths to Grid North True North: -0.12° Magnetic North: 7.66° Magnetic Field Strength: 48890.8snT Dip Angle: 60.68° Date: 09/04/2012 Model: IGRF200510	COMPANY DETAILS: Murchison Oil and Gas	PROJECT DETAILS: Paddock
		Drilling Calculation Method: Minimum Curvature Error System: ISCWSA Scan Method: Closest Approach 3D Error Surface: Elliptical Conic Warning Method: Error Ratio	Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: New Mexico Eastern Zone System Datum: Mean Sea Level

