

30-015-40130

 MURCHISON OIL & GAS, INC.

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Murchison Oil and Gas

Paddock
Polar Bear 4H
Polar Bear 4H
Polar Bear 4H

Survey: Polar Bear 4H

MOJO Standard Report

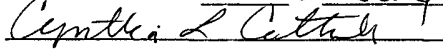
24 June, 2012

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

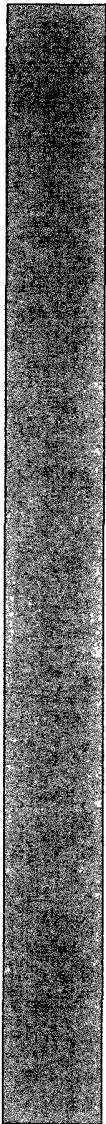
County of Collin

State of Texas

 CYNTHIA L. COTRELL
Notary Public, State of Texas
My Commission Expires
May 23, 2015



MOJO
DIRECTIONAL CORPORATION



Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Well Polar Bear 4H
Project:	Paddock	TVD Reference:	well @ 3681.3usft (HWD 4)
Site:	Polar Bear 4H	MD Reference:	well @ 3681.3usft (HWD 4)
Well:	Polar Bear 4H	North Reference:	Grid
Wellbore:	Polar Bear 4H	Survey Calculation Method:	Minimum Curvature
Design:	Polar Bear 4H	Database:	EDM 5000 1 Single User Db

Project	Paddock, Horizontal Development Wells
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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	Polar Bear 4H
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Site Position:		Northing:	678,882.43 usft	Latitude:	32° 51' 57.927 N
From:	Lat/Long	Easting:	606,289.66 usft	Longitude:	104° 7' 18.443 W
Position Uncertainty:	1.0 usft	Slot Radius:	15 "	Grid Convergence:	0.11 °

Well	Polar Bear 4H, Horizontal Paddock Well
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Well Position	+N/-S	0.0 usft	Northing:	678,882.43 usft	Latitude:	32° 51' 57.927 N
	+E/-W	0.0 usft	Easting:	606,289.66 usft	Longitude:	104° 7' 18.443 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,668.0 usft

Wellbore	Polar Bear 4H
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	30/03/2012	7.78	60.69	48,900

Design	Polar Bear 4H
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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	234.42

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Wellbore:	Polar Bear 4H	Survey Calculation Method:	Minimum Curvature
Design:	Polar Bear 4H	Database:	EDM 5000 1 Single User Db

Survey Program	Date 24/06/2012			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	3,200.0	Polar Bear 4H Pilot (Polar Bear 4H)	MWD	MWD - Standard
3,246.0	6,590.0	Polar Bear 4H (Polar Bear 4H)	MWD	MWD - Standard

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	3,681.3	0.0	0.0	678,882.43	606,289.66	0.00	0 00
52.0	0.21	47 06	52.0	3,629.3	0.1	0.1	678,882.49	606,289.73	0.41	47 06
Conductor										
100.0	0.41	47.06	100.0	3,581.3	0.2	0.3	678,882.67	606,289.93	0.41	47.06
200.0	0.45	12.96	200.0	3,481.3	0.9	0.6	678,883.30	606,290.28	0.26	35.12
300.0	0.44	18.53	300.0	3,381.3	1.6	0.8	678,884.05	606,290.49	0.04	26.95
371.0	0.44	39 63	371.0	3,310.3	2.1	1.1	678,884.51	606,290.74	0.23	27 42
9 5/8" Surface Casing										
400.0	0.45	47.90	400.0	3,281.3	2.2	1.2	678,884.67	606,290.90	0.23	28 83
500.0	0.35	92.91	500.0	3,181.3	2.5	1.8	678,884.92	606,291.49	0.32	36 32
600.0	0.28	97.28	600.0	3,081.3	2.4	2.4	678,884.87	606,292.04	0.07	44.21
700.0	0.51	175 89	700.0	2,981.3	2.0	2.7	678,884.40	606,292.32	0.53	53.40
772.0	0.62	181.36	772.0	2,909.3	1.3	2.7	678,883.69	606,292.33	0.17	64 66
Yates										
800.0	0.66	183.00	800.0	2,881.3	1.0	2.7	678,883.38	606,292.32	0.17	70.28
900.0	0.58	166.40	900.0	2,781.3	-0.1	2.7	678,882.31	606,292.41	0.20	92 41
1,000.0	0.45	184.61	1,000.0	2,681.3	-1.0	2.8	678,881.43	606,292.49	0.21	109 43
1,021.0	0.44	184 93	1,021.0	2,660.3	-1.2	2.8	678,881.27	606,292.48	0.03	112 41
Seven Rivers										
1,100.0	0.42	186.24	1,100.0	2,581.3	-1.8	2.8	678,880.67	606,292.42	0.03	122.44
1,200.0	0.33	190.93	1,200.0	2,481.3	-2.4	2.7	678,880.03	606,292.33	0.10	132.02
1,300.0	0.36	192 57	1,300.0	2,381.3	-3.0	2.5	678,879.44	606,292.21	0.03	139.63

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Site:	Polar Bear 4H	MD Reference:	well @ 3681 3usft (HWD 4)
Well:	Polar Bear 4H	North Reference:	Grd
Wellbore:	Polar Bear 4H	Survey Calculation Method:	Minimum Curvature
Design:	Polar Bear 4H	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 (°)	
1,400.0	0.35	193.87	1,400.0	2,281.3	-3.6	2.4	678,878.83	606,292.06	0.01	146.25	
1,500.0	0.43	208.90	1,500.0	2,181.3	-4.2	2.1	678,878.21	606,291.81	0.13	153.03	
1,577.0	0.50	193.57	1,577.0	2,104.3	-4.8	1.9	678,877.63	606,291.59	0.19	158.12	
Queen											
1,600.0	0.53	189.90	1,600.0	2,081.3	-5.0	1.9	678,877.43	606,291.55	0.19	159.35	
1,700.0	0.45	210.96	1,700.0	1,981.3	-5.8	1.6	678,876.63	606,291.27	0.20	164.53	
1,800.0	0.48	228.39	1,799.9	1,881.4	-6.4	1.1	678,876.02	606,290.75	0.14	170.36	
1,900.0	0.49	235.13	1,899.9	1,781.4	-6.9	0.4	678,875.50	606,290.09	0.06	176.49	
1,997.0	0.91	248.88	1,996.9	1,684.4	-7.4	-0.6	678,874.98	606,289.03	0.46	184.84	
Grayburg											
2,000.0	0.92	249.10	1,999.9	1,681.4	-7.5	-0.7	678,874.96	606,288.99	0.46	185.17	
2,100.0	0.76	249.44	2,099.9	1,581.4	-8.0	-2.0	678,874.45	606,287.62	0.16	194.38	
2,200.0	0.88	247.53	2,199.9	1,481.4	-8.5	-3.4	678,873.92	606,286.29	0.12	201.65	
2,300.0	0.78	251.47	2,299.9	1,381.4	-9.0	-4.7	678,873.41	606,284.93	0.12	207.68	
2,370.0	0.84	253.82	2,369.9	1,311.4	-9.3	-5.7	678,873.11	606,283.99	0.10	211.37	
San Andres											
2,400.0	0.87	254.72	2,399.9	1,281.4	-9.4	-6.1	678,872.99	606,283.55	0.10	212.92	
2,500.0	0.67	252.32	2,499.9	1,181.4	-9.8	-7.4	678,872.62	606,282.26	0.20	217.02	
2,600.0	0.45	260.37	2,599.9	1,081.4	-10.1	-8.3	678,872.37	606,281.32	0.23	219.68	
2,700.0	0.55	250.69	2,699.9	981.4	-10.3	-9.2	678,872.15	606,280.48	0.13	221.77	
2,800.0	0.51	260.32	2,799.9	881.4	-10.5	-10.1	678,871.91	606,279.59	0.10	223.78	
2,900.0	0.52	253.57	2,899.9	781.4	-10.7	-10.9	678,871.71	606,278.71	0.06	225.61	
3,000.0	0.57	248.04	2,999.9	681.4	-11.0	-11.8	678,871.40	606,277.82	0.07	227.04	
3,100.0	0.59	260.35	3,099.9	581.4	-11.3	-12.8	678,871.12	606,276.85	0.13	228.58	
3,155.0	0.60	272.20	3,154.9	526.4	-11.3	-13.4	678,871.09	606,276.28	0.22	229.72	
3,200.0	1.20	274.20	3,199.9	481.4	-11.3	-14.1	678,871.13	606,275.58	1.33	231.27	
3,245.0	3.50	280.30	3,244.8	436.5	-11.0	-15.9	678,871.41	606,273.76	5.13	235.30	

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Well:	Polar Bear 4H	North Reference:	Grid
Wellbore:	Polar Bear 4H	Survey Calculation Method:	Minimum Curvature
Design:	Polar Bear 4H	Database:	EDM 5000 1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	Closure Azimuth (°)
3,290.0	7.90	286.50	3,289.6	391.7	-9.9	-20.2	678,872.54	606,269.44	9.86	243.94
3,335.0	10.60	289.70	3,334.0	347.3	-7.6	-27.1	678,874.81	606,262.57	6.11	254.29
3,377.0	14.50	290.70	3,375.0	306.3	-4.5	-35.6	678,877.97	606,254.02	9.30	262.87
3,425.0	18.20	286.50	3,421.0	260.3	-0.2	-48.5	678,882.23	606,241.20	8.09	269.76
3,470.0	20.70	278.90	3,463.5	217.8	3.0	-63.1	678,885.45	606,226.61	7.89	272.75
3,515.0	23.60	273.30	3,505.1	176.2	4.8	-79.9	678,887.20	606,209.75	7.96	273.42
3,560.0	27.50	273.30	3,545.7	135.6	5.9	-99.3	678,888.32	606,190.38	8.67	273.40
3,605.0	30.50	270.00	3,585.1	96.2	6.5	-121.1	678,888.92	606,168.58	7.55	273.07
3,650.0	33.80	271.80	3,623.2	58.1	6.9	-145.0	678,889.31	606,144.65	7.64	272.72
3,696.0	38.50	272.50	3,660.3	21.0	7.9	-172.1	678,890.34	606,117.54	10.26	272.63
3,740.0	43.30	271.30	3,693.6	-12.3	8.9	-200.9	678,891.28	606,088.76	11.05	272.52
3,785.0	46.80	269.90	3,725.4	-44.1	9.2	-232.8	678,891.60	606,056.93	8.08	272.26
3,803.7	48.13	269.56	3,738.0	-56.7	9.1	-246.5	678,891.53	606,043.15	7.23	272.12
Glorietta										
3,830.0	50.00	269.10	3,755.2	-73.9	8.9	-266.4	678,891.30	606,023.28	7.23	271.91
3,849.0	51.10	268.60	3,767.3	-86.0	8.6	-281.1	678,891.01	606,008.62	6.14	271.75
3,886.3	53.83	270.41	3,790.0	-108.7	8.3	-310.6	678,890.76	605,979.08	8.29	271.54
Paddock										
3,895.0	54.48	270.82	3,795.1	-113.8	8.4	-317.7	678,890.84	605,971.99	8.29	271.52
3,896.0	54.55	270.87	3,795.7	-114.4	8.4	-318.5	678,890.85	605,971.18	8.30	271.51
7" Intermediate Casing										
3,949.0	58.50	273.20	3,824.9	-143.6	10.0	-362.7	678,892.44	605,927.02	8.30	271.58
3,994.0	61.10	272.50	3,847.6	-166.3	11.9	-401.5	678,894.37	605,888.18	5.93	271.70
4,039.0	63.90	270.20	3,868.3	-187.0	12.9	-441.4	678,895.30	605,848.29	7.70	271.67
4,084.0	66.90	268.70	3,887.1	-205.8	12.5	-482.3	678,894.90	605,807.38	7.32	271.48
4,129.0	72.70	269.00	3,902.6	-221.3	11.6	-524.5	678,894.05	605,765.18	12.90	271.27
4,174.0	73.90	265.90	3,915.5	-234.2	9.7	-567.6	678,892.13	605,722.13	7.12	270.98

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Well:	Polar Bear 4H	North Reference:	Grd
Wellbore:	Polar Bear 4H	Survey Calculation Method:	Minimum Curvature
Design:	Polar Bear 4H	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	D/Leg (°/100usft)	Closure Azimuth (°)
4,219.0	77.20	266.10	3,926.8	-245.5	6.7	-611.0	678,889.09	605,678.67	7.35	270.62
4,264.0	83.30	265.20	3,934.4	-253.1	3.3	-655.2	678,885.73	605,634.47	13.70	270.29
4,309.0	89.80	267.10	3,937.1	-255.8	0.3	-700.0	678,882.72	605,589.69	15.05	270.02
4,354.0	90.70	267.00	3,936.9	-255.6	-2.0	-745.0	678,880.40	605,544.75	2.01	269.84
4,397.0	90.90	267.20	3,936.3	-255.0	-4.2	-787.9	678,878.23	605,501.81	0.66	269.69
4,442.0	91.90	267.60	3,935.2	-253.9	-6.2	-832.9	678,876.18	605,456.88	2.39	269.57
4,487.0	92.60	267.80	3,933.4	-252.1	-8.0	-877.8	678,874.38	605,411.95	1.62	269.47
4,532.0	90.80	269.30	3,932.1	-250.8	-9.2	-922.7	678,873.24	605,366.99	5.21	269.43
4,577.0	91.30	269.90	3,931.3	-250.0	-9.5	-967.7	678,872.93	605,322.01	1.74	269.44
4,622.0	91.40	270.00	3,930.2	-248.9	-9.5	-1,012.7	678,872.89	605,277.02	0.31	269.46
4,667.0	92.40	269.70	3,928.7	-247.4	-9.7	-1,057.7	678,872.77	605,232.05	2.32	269.48
4,712.0	90.80	270.50	3,927.5	-246.2	-9.6	-1,102.7	678,872.85	605,187.08	3.97	269.50
4,757.0	91.00	271.10	3,926.8	-245.5	-9.0	-1,147.7	678,873.48	605,142.09	1.41	269.55
4,802.0	91.00	271.20	3,926.0	-244.7	-8.0	-1,192.7	678,874.38	605,097.11	0.22	269.61
4,847.0	90.30	271.10	3,925.5	-244.2	-7.1	-1,237.6	678,875.28	605,052.13	1.57	269.67
4,892.0	91.20	270.70	3,924.9	-243.6	-6.4	-1,282.6	678,875.99	605,007.14	2.19	269.71
4,937.0	91.50	270.70	3,923.8	-242.5	-5.9	-1,327.6	678,876.54	604,962.16	0.67	269.75
4,982.0	90.60	269.70	3,923.0	-241.7	-5.7	-1,372.6	678,876.70	604,917.17	2.99	269.76
5,027.0	88.70	267.10	3,923.3	-242.0	-7.0	-1,417.6	678,875.44	604,872.20	7.16	269.72
5,072.0	88.40	267.10	3,924.4	-243.1	-9.3	-1,462.5	678,873.17	604,827.28	0.67	269.64
5,117.0	89.80	266.00	3,925.1	-243.8	-12.0	-1,507.4	678,870.46	604,782.37	3.96	269.54
5,162.0	91.60	267.40	3,924.6	-243.3	-14.6	-1,552.3	678,867.87	604,737.45	5.07	269.46
5,207.0	91.90	266.90	3,923.2	-241.9	-16.8	-1,597.3	678,865.63	604,692.53	1.30	269.40
5,252.0	92.00	266.70	3,921.6	-240.3	-19.3	-1,642.2	678,863.12	604,647.63	0.50	269.33
5,297.0	91.40	266.50	3,920.3	-239.0	-22.0	-1,687.1	678,860.45	604,602.74	1.41	269.25
5,342.0	90.70	265.60	3,919.5	-238.2	-25.1	-1,732.0	678,857.36	604,557.86	2.53	269.17
5,387.0	90.80	267.40	3,918.9	-237.6	-27.8	-1,776.9	678,854.61	604,512.95	4.01	269.10

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Site:	Polar Bear 4H	MD Reference:	well @ 3681.3usft (HWD 4)
Well:	Polar Bear 4H	North Reference:	Grid
Wellbore:	Polar Bear 4H	Survey Calculation Method:	Minimum Curvature
Design:	Polar Bear 4H	Database:	EDM 5000 1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	-TVDS (usft)	-N/S (usft)	-EW (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	Closure: Azimuth (°)
5,432.0	90.30	267.10	3,918.5	-237.2	-30.0	-1,821.8	678,852.45	604,468.01	1.30	269.06
5,477.0	91.10	267.20	3,917.9	-236.6	-32.2	-1,866.8	678,850.21	604,423.07	1.79	269.01
5,522.0	91.40	267.10	3,916.9	-235.6	-34.5	-1,911.7	678,847.98	604,378.14	0.70	268.97
5,567.0	91.80	267.40	3,915.7	-234.4	-36.6	-1,956.6	678,845.82	604,333.22	1.11	268.93
5,612.0	91.60	268.10	3,914.3	-233.0	-38.4	-2,001.6	678,844.05	604,288.27	1.62	268.90
5,657.0	91.80	269.50	3,913.0	-231.7	-39.3	-2,046.5	678,843.11	604,243.31	3.14	268.90
5,702.0	91.60	269.30	3,911.7	-230.4	-39.8	-2,091.5	678,842.64	604,198.33	0.63	268.91
5,747.0	91.00	268.70	3,910.7	-229.4	-40.6	-2,136.5	678,841.85	604,153.36	1.89	268.91
5,792.0	90.90	269.50	3,909.9	-228.6	-41.3	-2,181.5	678,841.15	604,108.37	1.79	268.92
5,837.0	90.80	270.60	3,909.2	-227.9	-41.2	-2,226.5	678,841.19	604,063.38	2.45	268.94
5,882.0	91.00	270.10	3,908.5	-227.2	-41.0	-2,271.5	678,841.46	604,018.39	1.20	268.97
5,927.0	91.00	270.30	3,907.7	-226.4	-40.8	-2,316.5	678,841.62	603,973.40	0.44	268.99
5,972.0	91.70	269.70	3,906.7	-225.4	-40.8	-2,361.4	678,841.62	603,928.42	2.05	269.01
6,017.0	92.80	269.80	3,904.9	-223.6	-41.0	-2,406.4	678,841.42	603,883.46	2.45	269.02
6,062.0	92.60	269.50	3,902.8	-221.5	-41.3	-2,451.4	678,841.15	603,838.52	0.80	269.04
6,107.0	92.30	269.20	3,900.9	-219.6	-41.8	-2,496.3	678,840.64	603,793.56	0.94	269.04
6,152.0	91.90	268.60	3,899.2	-217.9	-42.7	-2,541.3	678,839.77	603,748.61	1.60	269.04
6,197.0	91.90	270.00	3,897.7	-216.4	-43.2	-2,586.2	678,839.23	603,703.64	3.11	269.04
6,242.0	91.90	269.60	3,896.2	-214.9	-43.4	-2,631.2	678,839.07	603,658.67	0.89	269.06
6,287.0	91.60	269.50	3,894.9	-213.6	-43.7	-2,676.2	678,838.72	603,613.69	0.70	269.06
6,332.0	90.00	269.00	3,894.2	-212.9	-44.3	-2,721.2	678,838.13	603,568.71	3.73	269.07
6,377.0	89.30	268.60	3,894.5	-213.2	-45.2	-2,766.2	678,837.18	603,523.72	1.79	269.06
6,422.0	90.90	269.20	3,894.4	-213.1	-46.1	-2,811.2	678,836.32	603,478.74	3.80	269.06
6,467.0	93.10	272.30	3,892.9	-211.6	-45.5	-2,856.1	678,836.91	603,433.78	8.44	269.09
6,512.0	91.90	271.00	3,890.9	-209.6	-44.2	-2,901.1	678,838.20	603,388.85	3.93	269.13
6,590.0	91.90	271.00	3,888.3	-207.0	-42.9	-2,979.0	678,839.56	603,310.91	0.00	269.18
Extrapolated to Bit										

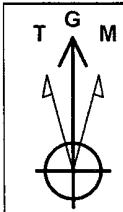
Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Well Polar Bear 4H
Project:	Paddock	TVD Reference:	well @ 3681.3usft (HWD 4)
Site:	Polar Bear 4H	MD Reference:	well @ 3681.3usft (HWD 4)
Well:	Polar Bear 4H	North Reference:	Grd
Wellbore:	Polar Bear 4H	Survey Calculation Method:	Minimum Curvature
Design:	Polar Bear 4H	Database:	EDM 5000.1 Single User Db

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
52.0	52.0	Conductor	14	14	
371.0	371.0	9 5/8" Surface Casing	9-5/8	12-1/4	
3,896.0	3,795.7	7" Intermediate Casing	7	8-3/4	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
772.0	772.0	Yates		0.00	
2,370.0	2,369.9	San Andres		0.00	
1,577.0	1,577.0	Queen		0.00	
3,886.3	3,790.0	Paddock		0.00	
1,021.0	1,021.0	Seven Rivers		0.00	
3,803.7	3,738.0	Glonetta		0.00	
1,997.0	1,996.9	Grayburg		0.00	

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
6,590.0	3,888.3	-42.9	-2,979.0	Extrapolated to Bit	

Checked By: _____ Approved By: _____ Date: _____

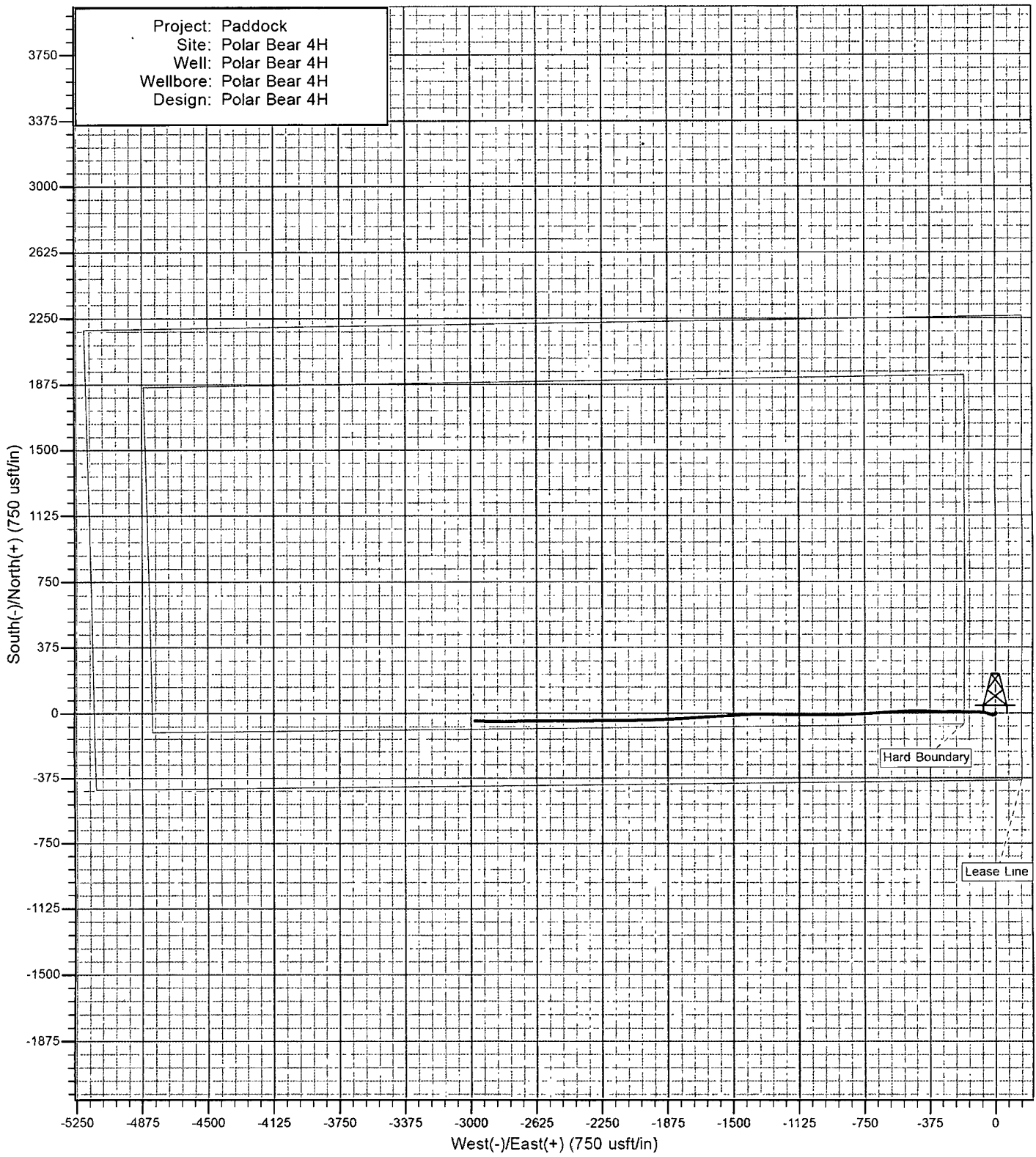


Azimuths to Grid North
 True North -0.12°
 Magnetic North 7.67°
 Magnetic Field
 Strength: 48899.7snT
 Dip Angle: 60.69°
 Date: 30/03/2012
 Model: IGRF200510

COMPANY DETAILS: Murchison Oil and Gas
 Drilling
 Calculation Method: Minimum Curvature
 Error System: ISCWSA
 Scan Method: Closest Approach 3D
 Error Surface: Elliptical Conic
 Warning Method: Error Ratio

PROJECT DETAILS: Paddock
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

Project: Paddock
 Site: Polar Bear 4H
 Well: Polar Bear 4H
 Wellbore: Polar Bear 4H
 Design: Polar Bear 4H





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