

Murchison Oil and Gas

Ramsey
Ogden 5B
Ogden 5B
Ogden 5B Leg 3 ST2

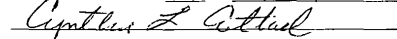
Design: Ogden 5^H Leg 3 ST2

MOJO Standard Survey

17 May, 2012

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

Notarized this date 17 of May, 2012.



Notary Signature

County of Collin

State of Texas



MOJO
DIRECTIONAL CORPORATION

Company:	Murchison Oil and Gas	Local Co-ordinate Reference:	Well Ogden 5B
Project:	Ramsey	TVD Reference:	Well @ 3390.0usft (HWD 4)
Site:	Ogden 5B	MD Reference:	Well @ 3390.0usft (HWD 4)
Well:	Ogden 5B	North Reference:	Grid
Wellbore:	Ogden 5B Leg 3 ST2	Survey Calculation Method:	Minimum Curvature
Design:	Ogden 5B Leg 3 ST2	Database:	EDM 5000.1 Single User Db

Project: Ramsey, Pinnate Appraisal Well

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site: Ogden 5B

Site Position:		Northing:	419,069.17 usft	Latitude:	32° 9' 7.484 N
From:	Lat/Long	Easting:	563,741.80 usft	Longitude:	104° 15' 39.380 W
Position Uncertainty:	1.0 usft	Slot Radius:	15 "	Grid Convergence:	0.04 °

Well: Ogden 5B, Multi-Lateral Horizontal Intersection

Well Position	+N/-S	0.0 usft	Northing:	419,069.17 usft	Latitude:	32° 9' 7.484 N
	+E/-W	0.0 usft	Easting:	563,741.80 usft	Longitude:	104° 15' 39.380 W
Position Uncertainty		1.0 usft	Wellhead Elevation:	usft	Ground Level:	3,378.0 usft

Wellbore: Ogden 5B Leg 3 ST2

Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	18/11/2011	7.83	60.01	48,493

Design: Ogden 5B Leg 3 ST2

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 3,235.0

Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	358.42

Company: Murchison Oil and Gas
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Local Co-ordinate Reference: Well Ogden 5B
 TVD Reference: Well @ 3390.0usft (HWD 4)
 MD Reference: Well @ 3390.0usft (HWD 4)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Survey Program		Date 10/05/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
360.0	2,255.0	Ogden 5B Main bore (Ogden 5B)		
2,278.0	2,569.0	Ogden 5B Leg 2 (Ogden 5B)		
2,590.0	3,235.0	Ogden 5B Leg 3 (Ogden 5B)		
3,322.0	6,280.0	Ogden 5B Leg 3 ST2 (Ogden 5B Leg 3 ST)		

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	Closure Azimuth (")	Closure Distance (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	419,069.17	563,741.80	0.00	0.00
334.0	0.46	313.30	334.0	0.9	-1.0	0.14	419,070.10	563,740.81	313.30	1.35
9 5/8"										
360.0	0.50	313.30	360.0	1.1	-1.1	0.14	419,070.25	563,740.65	313.30	1.57
420.0	0.40	334.80	420.0	1.4	-1.4	0.32	419,070.62	563,740.37	315.47	2.03
574.0	0.60	339.80	574.0	2.7	-1.9	0.13	419,071.86	563,739.87	324.33	3.31
674.0	0.20	24.10	674.0	3.3	-2.0	0.48	419,072.51	563,739.76	328.59	3.91
774.0	1.00	319.60	774.0	4.2	-2.5	0.93	419,073.34	563,739.26	328.68	4.87
874.0	1.50	315.70	874.0	5.8	-4.0	0.51	419,074.94	563,737.78	325.16	7.02
974.0	1.50	314.90	973.9	7.6	-5.9	0.02	419,076.80	563,735.94	322.48	9.61
1,074.0	2.70	338.70	1,073.9	10.7	-7.6	1.46	419,079.92	563,734.16	324.59	13.18
1,174.0	2.70	341.50	1,173.7	15.2	-9.2	0.13	419,084.34	563,732.56	328.66	17.76
1,274.0	2.40	357.20	1,273.6	19.5	-10.1	0.76	419,088.67	563,731.71	332.64	21.95
1,349.0	2.40	3.30	1,348.6	22.6	-10.1	0.34	419,091.81	563,731.72	336.00	24.78
1,388.0	2.50	4.20	1,387.5	24.3	-10.0	0.27	419,093.47	563,731.83	337.70	26.26
1,433.0	2.60	11.90	1,432.5	26.3	-9.7	0.79	419,095.45	563,732.11	339.77	28.00
1,478.0	3.80	20.90	1,477.4	28.7	-8.9	2.88	419,097.84	563,732.85	342.67	30.03
1,523.0	5.80	27.20	1,522.3	32.1	-7.4	4.59	419,101.25	563,734.43	347.06	32.92
1,568.0	6.60	29.50	1,567.0	36.4	-5.1	1.86	419,105.53	563,736.74	352.08	36.71
1,613.0	7.10	26.70	1,611.7	41.1	-2.5	1.34	419,110.26	563,739.26	356.47	41.17

Company: Murchison Oil and Gas
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 Well: Ogden 5B
 Wellbore: Ogden 5B Leg 3 ST2
 Design: Ogden 5B Leg 3 ST2

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

Well Ogden 5B
 Well @ 3390.0usft (HWD 4)
 Well @ 3390.0usft (HWD 4)
 Grid
 Minimum Curvature
 EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	Closure Azimuth (°)	Closure Distance (usft)	
1,658.0	8.20	22.30	1,656.3	46.5	-0.1	2.77	419,115.72	563,741.73	359.92	46.54	
1,703.0	9.50	18.90	1,700.7	53.0	2.4	3.11	419,122.20	563,744.15	2.54	53.08	
1,748.0	11.90	17.80	1,745.0	61.0	5.0	5.35	419,130.13	563,746.77	4.67	61.16	
1,799.0	16.60	14.00	1,794.4	73.0	8.3	9.39	419,142.21	563,750.14	6.52	73.52	
1,843.0	24.20	11.60	1,835.6	88.0	11.7	17.37	419,157.17	563,753.48	7.56	88.77	
1,879.0	30.00	10.50	1,867.6	104.1	14.8	16.17	419,173.26	563,756.61	8.10	105.14	
1,924.0	35.50	9.00	1,905.5	128.1	18.9	12.35	419,197.24	563,760.71	8.40	129.46	
1,969.0	40.90	7.50	1,940.8	155.6	22.9	12.18	419,224.78	563,764.67	8.36	157.28	
2,014.0	48.20	9.30	1,972.9	186.8	27.5	16.46	419,255.98	563,769.31	8.38	188.82	
2,059.0	55.10	12.20	2,000.8	221.4	34.1	16.14	419,290.61	563,775.93	8.76	224.06	
2,075.0	56.99	11.57	2,009.7	234.4	36.9	12.23	419,303.60	563,778.67	8.94	237.31	
7"											
2,098.0	59.70	10.70	2,021.8	253.6	40.6	12.23	419,322.81	563,782.44	9.10	256.87	
2,143.0	62.50	10.60	2,043.5	292.3	47.9	6.23	419,361.52	563,789.72	9.31	296.25	
2,188.0	72.00	3.30	2,060.9	333.5	52.8	25.86	419,402.64	563,794.64	9.01	337.63	
2,233.0	79.70	1.80	2,071.9	377.0	54.8	17.41	419,446.20	563,796.57	8.27	380.99	
2,255.0	82.00	1.10	2,075.4	398.7	55.3	10.92	419,467.91	563,797.12	7.90	402.56	
2,278.0	81.90	5.90	2,078.6	421.5	56.7	20.67	419,490.64	563,798.51	7.66	425.26	
2,302.0	86.80	12.50	2,081.0	445.0	60.5	34.14	419,514.19	563,802.33	7.75	449.12	
2,324.0	88.80	13.80	2,081.8	466.4	65.5	10.84	419,535.60	563,807.33	8.00	471.01	
2,354.0	90.20	15.00	2,082.1	495.5	73.0	6.15	419,564.65	563,814.79	8.38	500.83	
2,369.0	92.60	16.40	2,081.7	509.9	77.1	18.52	419,579.09	563,818.85	8.59	515.70	
2,392.0	95.40	16.70	2,080.1	531.9	83.6	12.24	419,601.08	563,825.39	8.93	538.43	
2,414.0	96.20	18.60	2,077.9	552.8	90.2	9.33	419,621.93	563,832.02	9.27	560.08	
2,430.0	96.30	19.50	2,076.2	567.8	95.4	5.63	419,636.97	563,837.21	9.54	575.76	
2,459.0	96.80	20.10	2,072.9	594.9	105.2	2.68	419,664.07	563,846.97	10.03	604.13	
2,479.0	95.30	18.40	2,070.8	613.7	111.7	11.30	419,682.85	563,853.53	10.32	623.77	

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Well: Ogden 5B
Wellbore: Ogden 5B Leg 3 ST2
Design: Ogden 5B Leg 3 ST2

Local Co-ordinate Reference: Well Ogden 5B
TVD Reference: Well @ 3390 0usft (HWD 4)
MD Reference: Well @ 3390 0usft (HWD 4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000 1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	Closure Azimuth (°)	Closure Distance (usft)
2,504.0	92.70	15.10	2,069.0	637.6	118.9	16.78	419,706.73	563,860.71	10.57	648.55
2,531.0	90.80	11.70	2,068.2	663.8	125.2	14.42	419,732.97	563,866.97	10.68	675.50
2,569.0	91.60	10.00	2,067.4	701.1	132.3	4.94	419,770.28	563,874.12	10.69	713.49
2,590.0	90.70	9.50	2,067.0	721.8	135.9	4.90	419,790.98	563,877.67	10.66	734.48
2,633.0	87.80	5.90	2,067.5	764.4	141.6	10.75	419,833.57	563,883.43	10.50	777.41
2,676.0	90.20	5.70	2,068.3	807.2	146.0	5.60	419,876.34	563,887.78	10.25	820.27
2,719.0	90.70	7.50	2,067.9	849.9	150.9	4.34	419,919.06	563,892.72	10.07	863.18
2,762.0	90.00	10.70	2,067.7	892.3	157.7	7.62	419,961.51	563,899.52	10.02	906.17
2,805.0	90.60	10.90	2,067.5	934.6	165.8	1.47	420,003.75	563,907.58	10.06	949.16
2,848.0	90.60	11.80	2,067.0	976.7	174.2	2.09	420,045.90	563,916.04	10.11	992.15
2,891.0	89.30	13.40	2,067.0	1,018.7	183.6	4.79	420,087.86	563,925.42	10.22	1,035.11
2,934.0	90.40	13.00	2,067.2	1,060.6	193.4	2.72	420,129.73	563,935.24	10.34	1,078.05
2,977.0	89.80	11.20	2,067.1	1,102.6	202.5	4.41	420,171.77	563,944.25	10.40	1,121.03
3,020.0	90.50	11.00	2,067.0	1,144.8	210.7	1.69	420,213.97	563,952.53	10.43	1,164.03
3,063.0	92.10	9.30	2,066.0	1,187.1	218.3	5.43	420,256.28	563,960.10	10.42	1,207.01
3,106.0	90.20	10.00	2,065.1	1,229.5	225.5	4.71	420,298.66	563,967.31	10.39	1,250.00
3,149.0	88.90	12.90	2,065.5	1,271.6	234.0	7.39	420,340.80	563,975.84	10.43	1,292.98
3,192.0	88.30	10.60	2,066.5	1,313.7	242.8	5.53	420,382.88	563,984.60	10.47	1,335.96
3,235.0	89.10	8.10	2,067.5	1,356.1	249.8	6.10	420,425.29	563,991.58	10.44	1,378.93
3,322.0	85.80	3.90	2,071.4	1,442.5	258.9	6.14	420,511.69	564,000.67	10.17	1,465.56
3,365.0	87.40	3.40	2,073.9	1,485.4	261.6	3.90	420,554.53	564,003.40	9.99	1,508.22
3,408.0	89.40	1.70	2,075.1	1,528.3	263.5	6.10	420,597.46	564,005.31	9.78	1,550.84
3,451.0	89.80	0.20	2,075.4	1,571.3	264.2	3.61	420,640.45	564,006.02	9.55	1,593.34
3,494.0	90.40	358.30	2,075.3	1,614.3	263.7	4.63	420,683.45	564,005.46	9.28	1,635.67
3,537.0	90.90	355.40	2,074.9	1,657.2	261.3	6.84	420,726.38	564,003.10	8.96	1,677.68
3,580.0	91.30	353.10	2,074.0	1,700.0	257.0	5.43	420,769.15	563,998.79	8.60	1,719.29
3,623.0	91.20	351.90	2,073.1	1,742.6	251.4	2.80	420,811.77	563,993.18	8.21	1,760.64

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 Wellbore: Ogden 5B Leg 3 ST2
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 TVD Reference: Well @ 3390.0usft (HWD 4)
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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	Closure Azimuth (°)	Closure Distance (usft)	
3,666.0	92.50	350.30	2,071.7	1,785.1	244.7	4.79	420,854.23	563,986.53	7.81	1,801.76	
3,709.0	94.30	352.40	2,069.1	1,827.5	238.3	6.43	420,896.66	563,980.08	7.43	1,842.96	
3,752.0	92.20	353.90	2,066.7	1,870.1	233.2	6.00	420,939.28	563,974.96	7.11	1,884.59	
3,795.0	92.00	354.60	2,065.1	1,912.9	228.9	1.69	420,982.04	563,970.65	6.82	1,926.51	
3,838.0	93.50	354.40	2,063.1	1,955.6	224.7	3.52	421,024.79	563,966.53	6.56	1,968.49	
3,881.0	92.90	354.60	2,060.7	1,998.4	220.6	1.47	421,067.52	563,962.42	6.30	2,010.49	
3,924.0	93.00	352.30	2,058.5	2,041.0	215.7	5.35	421,110.18	563,957.52	6.03	2,052.38	
3,967.0	92.40	351.70	2,056.4	2,083.5	209.7	1.97	421,152.72	563,951.54	5.75	2,094.07	
4,010.0	91.60	351.30	2,054.9	2,126.0	203.4	2.08	421,195.22	563,945.19	5.46	2,135.75	
4,053.0	90.70	349.90	2,054.1	2,168.5	196.4	3.87	421,237.63	563,938.17	5.17	2,177.33	
4,096.0	91.30	349.70	2,053.3	2,210.8	188.8	1.47	421,279.94	563,930.56	4.88	2,218.82	
4,140.0	91.40	348.50	2,052.3	2,254.0	180.4	2.74	421,323.14	563,922.24	4.58	2,261.18	
4,183.0	91.00	346.60	2,051.4	2,295.9	171.2	4.51	421,365.11	563,912.97	4.26	2,302.31	
4,226.0	90.80	346.60	2,050.7	2,337.8	161.2	0.47	421,406.94	563,903.01	3.94	2,343.32	
4,268.0	89.80	347.60	2,050.5	2,378.7	151.8	3.37	421,447.88	563,893.63	3.65	2,383.55	
4,311.0	89.10	347.10	2,050.9	2,420.7	142.4	2.00	421,489.83	563,884.21	3.37	2,424.84	
4,355.0	89.50	346.20	2,051.4	2,463.5	132.3	2.24	421,532.64	563,874.06	3.07	2,467.01	
4,398.0	91.00	346.80	2,051.2	2,505.3	122.2	3.76	421,574.45	563,864.02	2.79	2,508.26	
4,441.0	90.50	347.70	2,050.7	2,547.2	112.7	2.39	421,616.38	563,854.53	2.53	2,549.71	
4,484.0	89.80	347.60	2,050.6	2,589.2	103.5	1.64	421,658.39	563,845.33	2.29	2,591.29	
4,527.0	90.20	347.50	2,050.6	2,631.2	94.3	0.96	421,700.38	563,836.06	2.05	2,632.89	
4,570.0	90.50	346.40	2,050.3	2,673.1	84.6	2.65	421,742.27	563,826.35	1.81	2,674.43	
4,613.0	90.50	346.30	2,049.9	2,714.9	74.4	0.23	421,784.05	563,816.21	1.57	2,715.90	
4,656.0	89.50	346.90	2,049.9	2,756.7	64.4	2.71	421,825.88	563,806.24	1.34	2,757.46	
4,699.0	90.20	347.80	2,050.0	2,798.7	55.0	2.65	421,867.83	563,796.82	1.13	2,799.20	
4,742.0	90.50	350.10	2,049.8	2,840.9	46.8	5.39	421,910.03	563,788.58	0.94	2,841.25	
4,785.0	89.60	350.70	2,049.7	2,883.3	39.6	2.52	421,952.43	563,781.41	0.79	2,883.53	

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4,828.0	90.00	351.30	2,049.9	2,925.7	32.9	1.68	421,994.90	563,774.69	0.64	2,925.91	
4,871.0	90.50	351.30	2,049.7	2,968.2	26.4	1.16	422,037.40	563,768.18	0.51	2,968.35	
4,914.0	90.10	351.60	2,049.5	3,010.8	20.0	1.16	422,079.93	563,761.79	0.38	3,010.82	
4,957.0	89.30	351.60	2,049.7	3,053.3	13.7	1.86	422,122.46	563,755.51	0.26	3,053.32	
5,000.0	88.80	352.90	2,050.4	3,095.9	7.9	3.24	422,165.06	563,749.71	0.15	3,095.90	
5,043.0	89.30	353.20	2,051.1	3,138.6	2.7	1.36	422,207.74	563,744.51	0.05	3,138.57	
5,086.0	89.20	353.10	2,051.7	3,181.3	-2.4	0.33	422,250.44	563,739.38	359.96	3,181.27	
5,129.0	89.10	353.00	2,052.3	3,223.9	-7.6	0.33	422,293.12	563,734.18	359.86	3,223.96	
5,172.0	89.80	353.00	2,052.7	3,266.6	-12.9	1.63	422,335.80	563,728.94	359.77	3,266.65	
5,215.0	90.80	352.90	2,052.5	3,309.3	-18.1	2.34	422,378.47	563,723.66	359.69	3,309.35	
5,258.0	91.00	353.00	2,051.8	3,352.0	-23.4	0.52	422,421.14	563,718.38	359.60	3,352.05	
5,301.0	90.70	352.70	2,051.2	3,394.6	-28.8	0.99	422,463.80	563,713.03	359.51	3,394.75	
5,344.0	89.60	353.20	2,051.1	3,437.3	-34.0	2.81	422,506.48	563,707.75	359.43	3,437.47	
5,387.0	88.80	353.50	2,051.7	3,480.0	-39.0	1.99	422,549.18	563,702.77	359.36	3,480.23	
5,430.0	89.00	353.40	2,052.5	3,522.7	-43.9	0.52	422,591.89	563,697.87	359.29	3,523.00	
5,472.0	89.60	353.40	2,053.0	3,564.4	-48.8	1.43	422,633.61	563,693.04	359.22	3,564.77	
5,515.0	88.60	355.50	2,053.7	3,607.2	-52.9	5.41	422,676.40	563,688.88	359.16	3,607.62	
5,560.0	88.80	355.70	2,054.7	3,652.1	-56.4	0.63	422,721.26	563,685.43	359.12	3,652.52	
5,605.0	89.00	355.80	2,055.6	3,697.0	-59.7	0.50	422,766.13	563,682.10	359.07	3,697.44	
5,650.0	89.40	355.70	2,056.2	3,741.8	-63.0	0.92	422,811.00	563,678.76	359.03	3,742.36	
5,695.0	89.80	356.00	2,056.5	3,786.7	-66.3	1.11	422,855.88	563,675.51	359.00	3,787.29	
5,740.0	89.50	355.20	2,056.8	3,831.6	-69.7	1.90	422,900.74	563,672.05	358.96	3,832.21	
5,785.0	89.70	355.40	2,057.1	3,876.4	-73.4	0.63	422,945.59	563,668.37	358.91	3,877.12	
5,830.0	89.70	355.10	2,057.4	3,921.3	-77.2	0.67	422,990.44	563,664.64	358.87	3,922.02	
5,875.0	90.60	354.40	2,057.2	3,966.1	-81.3	2.53	423,035.25	563,660.52	358.83	3,966.91	
5,920.0	90.90	354.40	2,056.7	4,010.9	-85.7	0.67	423,080.03	563,656.13	358.78	4,011.77	
5,965.0	92.10	354.20	2,055.5	4,055.6	-90.1	2.70	423,124.79	563,651.67	358.73	4,056.62	

Company: Murchison Oil and Gas
 Project: Ramsey
 Site: Ogden 5B
 Well: Ogden 5B
 Wellbore: Ogden 5B Leg 3 ST2
 Design: Ogden 5B Leg 3 ST2

Local Co-ordinate Reference: Well Ogden 5B
 TVD Reference: Well @ 3390 0usft (HWD 4)
 MD Reference: Well @ 3390 0usft (HWD 4)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000 1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	North (usft)	Easting (usft)	Closure Azimuth (°)	Closure Distance (usft)
6,010.0	92.50	353.90	2,053.7	4,100.3	-94.8	1.11	423,169.51	563,647.00	358.68	4,101.43
6,055.0	94.00	354.00	2,051.1	4,145.0	-99.5	3.34	423,214.19	563,642.27	358.62	4,146.21
6,100.0	95.20	353.70	2,047.5	4,189.6	-104.3	2.75	423,258.78	563,637.46	358.57	4,190.91
6,145.0	96.00	353.30	2,043.1	4,234.1	-109.4	1.99	423,303.28	563,632.39	358.52	4,235.52
6,190.0	96.60	353.70	2,038.2	4,278.5	-114.5	1.60	423,347.72	563,627.33	358.47	4,280.08
6,235.0	96.80	353.50	2,032.9	4,323.0	-119.4	0.63	423,392.13	563,622.35	358.42	4,324.61
6,280.0	96.80	353.50	2,027.6	4,367.4	-124.5	0.00	423,436.53	563,617.29	358.37	4,369.13

Casing Points

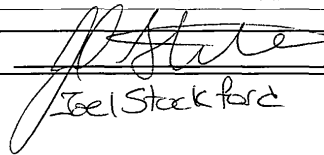
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
334.0	334.0	9 5/8"	12-1/4	12-1/4
2,075.0	2,009.7	7"	7	8-3/4

Checked By:



 STEVE MORRIS

Approved By:



 Joel Stockford

Date:

17/05/2012