



JAY BEE OIL AND GAS INC.
RPT 8-1
TYLER COUNTY, WV

SECTION DETAILS

Sec	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	5916.00	0.82	17.44	5910.04	-145.95	-26.26	0.00	0.00	129.88	
2	5998.00	0.00	0.00	5992.04	-145.39	-26.08	1.00	180.00	129.41	
3	6373.00	0.00	0.00	6367.04	-145.39	-26.08	0.00	0.00	129.41	
4	7273.00	90.00	161.35	6940.00	-688.25	157.16	10.00	161.35	702.37	
5	15445.49	90.00	161.35	6940.00	-8431.53	2770.79	0.00	0.00	8874.85	1H PBHL P1

WELL DETAILS

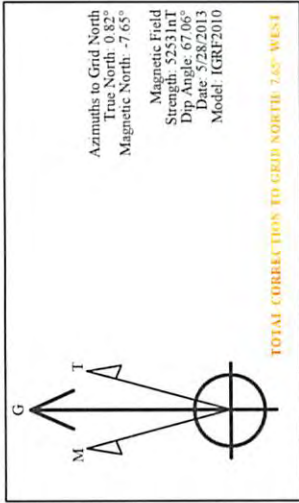
Name	N/S	E/W	Latitude	Longitude	Slot
1H	-13.66	4.63	39°28'59.302N	080°47'10.539W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Point
1H PBHL P1	6940.00	-8431.53	2770.79	352247.14	1639729.21	Point
1H LP P1	6940.00	-644.74	175.63	360033.93	1637134.04	Point

FIELD DETAILS
 Tyler county, WV
 Geodetic System: US State Plane Coordinate System 1927
 Ellipsoid: NAD27 (Clarke 1866)
 Zone: West Virginia, Northern Zone
 Magnetic Model: IGRF2010
 System Datum: Mean Sea Level
 Local North: Grid North

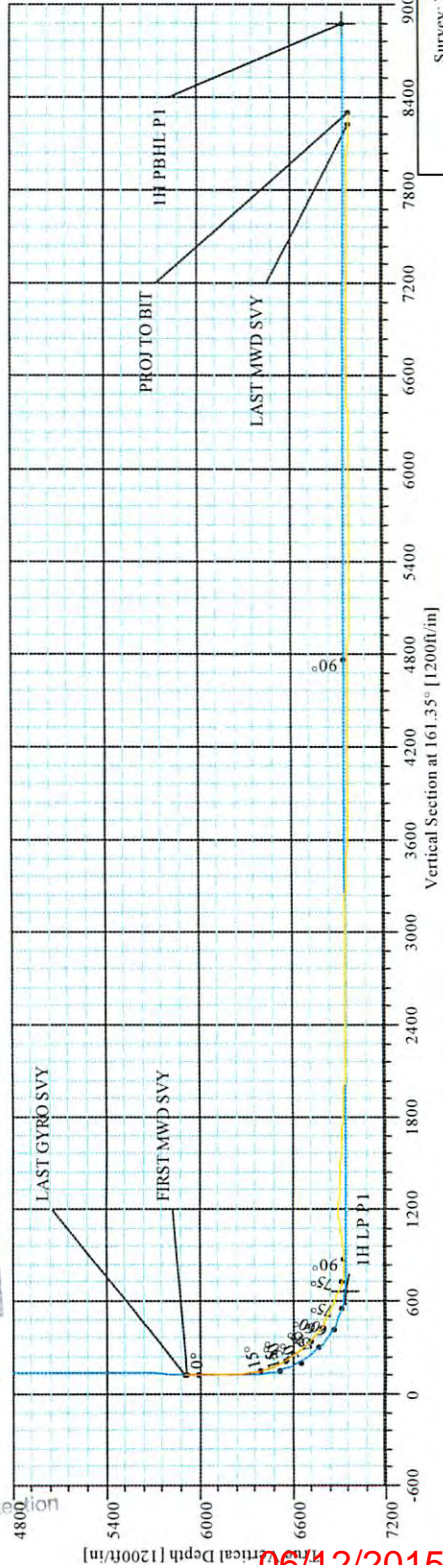
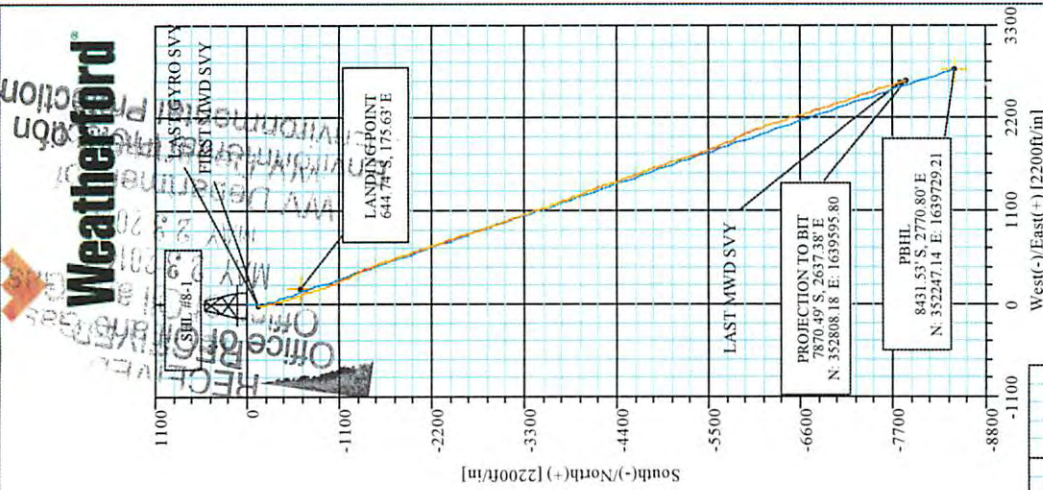
SITE DETAILS
 RPT 8
 Site Centre Northing: 360692.33
 Easting: 1636953.79
 Ground Level: 1244.00
 Positional Uncertainty: 0.00
 Convergence: -0.82



TOTAL CORRECTION TO GRID NORTH: 7.46° WEST

PROJECTION TO BIT

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
215	14812.00	89.37	161.95	6976.69	-7870.49	2637.38	0.00	0.00	8300.61



Office of Oil and Gas
 WV Dept. of Environmental Protection
 APR 27 2015

06/12/2015

Weatherford International Ltd.

DIRECTIONAL REPORT

WV Department of Environmental Protection
 RECEIVED
 APR 27 2015

Company: JAY BEE OIL & GAS INC.	Date: 8/20/2013	Time: 08:27:05	Page: 1
Field: Tyler county, WV	Co-ordinate(NE) Reference: Well: 1H, Grid North		
Site: RPT 8	Vertical (TVD) Reference: SITE 1260.0		
Well: 1H	Section (VS) Reference: Well (0.00N,0.00E,161.35Az)		Db: Sybase
Wellpath: HORIZONTAL	Survey Calculation Method: Minimum Curvature		

Plan:	Date Composed:
Principal:	Version:
	Tied-to:

Field: Tyler county, WV	Map Zone: West Virginia, Northern Zone
Map System: US State Plane Coordinate System 1927	Coordinate System: Well Centre
Geo Datum: NAD27 (Clarke 1866)	Geomagnetic Model: IGRF2010
Sys Datum: Mean Sea Level	

Site: RPT 8		
Site Position:	Northing: 360692.33 ft	Latitude: 39 28 59.436 N
From: Map	Easting: 1636953.79 ft	Longitude: 80 47 10.601 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 1244.00 ft		Grid Convergence: -0.82 deg

Well: 1H	Slot Name:	
Well Position: +N/-S -13.66 ft	Northing: 360678.67 ft	Latitude: 39 28 59.302 N
+E/-W 4.63 ft	Easting: 1636958.41 ft	Longitude: 80 47 10.539 W
Position Uncertainty: 0.00 ft		

Wellpath: HORIZONTAL	Drilled From: Surface		
Current Datum: SITE	Tie-on Depth: 0.00 ft		
Magnetic Data: 5/28/2013	Above System Datum: Mean Sea Level		
Field Strength: 52531 nT	Declination: -8.47 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 67.06 deg		
ft	+N/-S	+E/-W	Direction
	ft	ft	deg
0.00	0.00	0.00	161.35

Plan Section Information										
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target

Survey										
MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Annotation
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
5916.00	0.82	17.44	5910.04	-145.95	-26.26	129.88	0.00	360532.72	1636932.16	LAST GYRO SVY FIRST MWD SVY
5923.00	0.50	339.29	5917.04	-145.87	-26.25	129.81	7.53	360532.80	1636932.16	
5967.00	0.49	337.94	5961.04	-145.51	-26.39	129.43	0.03	360533.16	1636932.02	
6011.00	0.49	324.73	6005.04	-145.19	-26.57	129.07	0.26	360533.48	1636931.84	
6056.00	0.49	320.42	6050.04	-144.88	-26.80	128.70	0.08	360533.79	1636931.61	
6100.00	0.56	301.11	6094.03	-144.63	-27.11	128.36	0.43	360534.04	1636931.31	
6144.00	0.56	308.85	6138.03	-144.38	-27.46	128.02	0.17	360534.29	1636930.95	
6189.00	0.53	317.57	6183.03	-144.09	-27.77	127.64	0.20	360534.58	1636930.64	
6233.00	0.41	315.88	6227.03	-143.82	-28.02	127.31	0.27	360534.85	1636930.40	
6278.00	3.32	189.74	6272.01	-144.99	-28.35	128.31	7.95	360533.68	1636930.06	
6323.00	8.34	188.74	6316.76	-149.51	-29.07	132.36	11.16	360529.16	1636929.35	
6367.00	12.78	182.16	6360.00	-157.53	-29.74	139.75	10.44	360521.14	1636928.68	
6412.00	15.64	178.98	6403.62	-168.57	-29.82	150.18	6.59	360510.10	1636928.60	
6456.00	19.88	175.97	6445.52	-181.97	-29.18	163.08	9.86	360496.70	1636929.23	
6500.00	23.85	173.48	6486.34	-198.28	-27.65	179.02	9.26	360480.39	1636930.77	
6545.00	28.00	165.40	6526.82	-217.55	-23.95	198.47	12.09	360461.12	1636934.46	
6589.00	31.07	160.38	6565.10	-238.25	-17.53	220.13	8.96	360440.42	1636940.88	
6633.00	34.13	158.70	6602.17	-260.45	-9.23	243.82	7.25	360418.22	1636949.18	
6678.00	37.23	162.22	6638.72	-285.18	-0.49	270.05	8.26	360393.49	1636957.93	
6722.00	40.13	164.67	6673.07	-311.54	7.33	297.52	7.45	360367.13	1636965.74	

Weatherford International Ltd.

DIRECTIONAL REPORT

Department of Environmental Protection

Company: JAY BEE OIL & GAS INC.
 Field: Tyler, county, WV
 Site: RPT#
 Well: 1H
 Survey: HORIZONTAL

Date: 8/20/2013 Time: 08:27:05 Page: 2
 Co-ordinate(NE) Reference: Well: 1H, Grid North
 Vertical (TVD) Reference: SITE 1260.0
 Section (VS) Reference: Well (0.00N,0.00E,161.35Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Annotation
6767.00	44.32	164.68	6706.38	-340.70	15.32	327.71	9.31	360337.97	1636973.73	
6811.00	47.72	164.65	6736.93	-371.23	23.69	359.31	7.73	360307.44	1636982.11	
6856.00	53.81	166.70	6765.38	-404.99	32.28	394.05	13.98	360273.68	1636990.70	
6900.00	60.32	167.46	6789.29	-440.96	40.53	430.77	14.87	360237.71	1636998.94	
6945.00	64.48	164.46	6810.14	-479.63	50.22	470.51	10.97	360199.04	1637008.63	
6989.00	64.65	160.91	6829.04	-517.56	62.04	510.22	7.30	360161.11	1637020.46	
7033.00	64.81	160.67	6847.83	-555.13	75.13	550.01	0.61	360123.54	1637033.55	
7078.00	64.88	160.10	6866.95	-593.50	88.81	590.74	1.16	360085.17	1637047.22	
7123.00	65.04	159.72	6886.00	-631.79	102.81	631.49	0.84	360046.88	1637061.23	
7167.00	68.98	160.35	6903.18	-669.85	116.64	671.98	9.05	360008.82	1637075.05	
7212.00	74.36	162.87	6917.33	-710.38	130.09	714.68	13.08	359968.29	1637088.51	
7256.00	80.59	165.43	6926.87	-751.67	141.81	757.55	15.25	359927.00	1637100.22	
7301.00	85.95	164.98	6932.14	-794.87	153.22	802.12	11.95	359883.80	1637111.63	
7346.00	86.99	164.72	6934.91	-838.22	164.95	846.95	2.38	359840.45	1637123.37	
7390.00	92.45	164.07	6935.13	-880.58	176.79	890.87	12.50	359798.09	1637135.20	
7434.00	97.56	161.51	6931.29	-922.43	189.74	934.67	12.98	359756.24	1637148.16	
7479.00	100.68	161.22	6924.16	-964.53	203.94	979.10	6.96	359714.14	1637162.35	
7523.00	100.75	161.00	6915.98	-1005.44	217.94	1022.33	0.52	359673.23	1637176.35	
7565.00	98.91	158.08	6908.81	-1044.20	232.40	1063.69	8.13	359634.47	1637190.82	
7610.00	95.88	155.31	6903.01	-1085.18	250.06	1108.16	9.09	359593.49	1637208.47	
7654.00	93.29	154.43	6899.50	-1124.88	268.68	1151.73	6.21	359553.79	1637227.10	
7699.00	89.23	153.44	6898.51	-1165.28	288.45	1196.34	9.29	359513.39	1637246.86	
7743.00	88.46	152.53	6899.39	-1204.47	308.43	1239.86	2.71	359474.20	1637266.84	
7788.00	88.46	151.88	6900.60	-1244.27	329.40	1284.27	1.44	359434.40	1637287.82	
7832.00	87.62	153.53	6902.11	-1283.34	349.57	1327.74	4.21	359395.33	1637307.98	
7876.00	86.71	156.79	6904.28	-1323.22	368.03	1371.43	7.68	359355.45	1637326.44	
7921.00	86.64	156.86	6906.89	-1364.52	385.71	1416.21	0.22	359314.15	1637344.12	
7965.00	86.64	157.42	6909.47	-1404.99	402.77	1460.02	1.27	359273.68	1637361.18	
8010.00	86.29	156.72	6912.25	-1446.36	420.27	1504.80	1.74	359232.31	1637378.68	
8055.00	86.64	156.72	6915.02	-1487.61	438.02	1549.57	0.78	359191.06	1637396.43	
8099.00	86.08	158.40	6917.82	-1528.20	454.78	1593.39	4.02	359150.47	1637413.20	
8144.00	87.00	159.15	6920.53	-1570.07	471.04	1638.26	2.64	359108.60	1637429.46	
8188.00	87.97	161.30	6922.46	-1611.43	485.91	1682.20	5.36	359067.24	1637444.33	
8233.00	87.97	161.16	6924.06	-1654.01	500.38	1727.17	0.31	359024.66	1637458.80	
8273.00	87.48	161.24	6925.64	-1691.85	513.26	1767.14	1.24	358986.82	1637471.68	
8317.00	87.48	161.45	6927.58	-1733.50	527.33	1811.10	0.48	358945.17	1637485.74	
8362.00	87.41	161.80	6929.59	-1776.16	541.50	1856.06	0.79	358902.51	1637499.91	
8406.00	87.41	162.08	6931.57	-1817.95	555.12	1900.01	0.64	358860.72	1637513.54	
8451.00	86.99	162.16	6933.77	-1860.72	568.92	1944.95	0.95	358817.95	1637527.34	
8495.00	86.78	162.17	6936.16	-1902.55	582.38	1988.88	0.48	358776.12	1637540.79	
8540.00	88.88	162.43	6937.87	-1945.38	596.05	2033.84	4.70	358733.29	1637554.46	
8584.00	88.60	161.89	6938.83	-1987.26	609.53	2077.82	1.38	358691.41	1637567.94	
8629.00	88.60	161.98	6939.93	-2030.03	623.48	2122.81	0.20	358648.64	1637581.89	
8674.00	89.23	162.72	6940.79	-2072.90	637.12	2167.79	2.16	358605.77	1637595.53	
8718.00	89.02	162.10	6941.46	-2114.84	650.41	2211.78	1.49	358563.83	1637608.83	
8763.00	88.88	161.73	6942.28	-2157.61	664.38	2256.77	0.88	358521.06	1637622.79	
8807.00	88.74	161.93	6943.20	-2199.40	678.10	2300.76	0.55	358479.27	1637636.51	
8852.00	90.63	161.55	6943.44	-2242.14	692.20	2345.76	4.28	358436.53	1637650.61	
8896.00	90.77	160.98	6942.91	-2283.80	706.33	2389.75	1.33	358394.87	1637664.74	
8941.00	91.05	161.29	6942.19	-2326.38	720.88	2434.75	0.93	358352.29	1637679.29	
8985.00	88.88	160.70	6942.22	-2367.98	735.20	2478.74	5.11	358310.69	1637693.62	
9030.00	89.09	160.52	6943.02	-2410.42	750.14	2523.73	0.61	358268.25	1637708.56	

Received

APR 27 2015

Office of Oil and Gas
 West Virginia Dept. of Environmental Protection

06/12/2015

Weatherford International Ltd.

DIRECTIONAL REPORT

Department of
Environmental Protection

Company: JAY BEE OIL & GAS INC. Field: Trinity Site: RPT 8 Wellpath: HORIZON	Date: 8/20/2013 Co-ordinate(NE) Reference: Well: 1H, Grid North Vertical (TVD) Reference: SITE 1260.0 Section (VS) Reference: Well (0.00N,0.00E,161.35Azi) Survey Calculation Method: Minimum Curvature	Time: 08:27:05 Well: 1H, Grid North SITE 1260.0 Well (0.00N,0.00E,161.35Azi) Minimum Curvature	Page: 3 Db: Sybase
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MD ft	Incl deg	Azi deg	TYP	NS	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Annotation
9075.00	89.79	161.25	6943.46	-2452.93	764.88	2568.73	2.25	358225.74	1637723.29	
9119.00	90.07	162.30	6943.54	-2494.73	778.64	2612.72	2.47	358183.94	1637737.05	
9164.00	89.72	162.86	6943.59	-2537.64	792.18	2657.72	1.12	358141.03	1637750.60	
9209.00	90.00	162.81	6943.70	-2580.51	805.54	2702.70	0.71	358098.06	1637763.95	
9253.00	90.00	162.86	6943.70	-2622.63	818.60	2746.69	0.34	358056.04	1637777.01	
9298.00	89.44	162.81	6943.70	-2665.52	832.20	2791.68	1.68	358013.15	1637790.62	
9342.00	89.37	162.37	6944.38	-2707.43	845.61	2835.67	0.52	357971.24	1637804.02	
9384.00	89.51	163.01	6944.79	-2747.52	858.10	2877.66	1.56	357931.15	1637816.52	
9429.00	89.58	163.30	6945.15	-2790.59	871.14	2922.64	0.66	357888.08	1637829.56	
9473.00	89.72	162.06	6945.41	-2832.59	884.24	2966.62	2.84	357846.08	1637842.66	
9517.00	90.14	161.18	6945.47	-2874.35	898.12	3010.62	2.22	357804.32	1637856.53	
9562.00	90.49	160.96	6945.22	-2916.91	912.71	3055.62	0.92	357761.76	1637871.13	
9607.00	89.02	160.28	6945.41	-2959.36	927.65	3100.61	3.60	357719.31	1637886.06	
9651.00	88.95	159.91	6946.19	-3000.73	942.62	3144.60	0.86	357677.94	1637901.04	
9696.00	87.76	159.69	6947.48	-3042.94	958.16	3189.56	2.69	357635.73	1637916.57	
9740.00	87.83	160.41	6949.18	-3084.27	973.16	3233.52	1.64	357594.40	1637931.57	
9785.00	87.76	160.77	6950.91	-3126.68	988.10	3278.48	0.81	357551.99	1637946.51	
9829.00	86.99	160.31	6952.92	-3168.12	1002.74	3322.43	2.04	357510.55	1637961.16	
9874.00	86.71	159.76	6955.40	-3210.36	1018.09	3367.35	1.37	357468.31	1637976.50	
9919.00	87.76	160.29	6957.57	-3252.60	1033.44	3412.28	2.61	357426.07	1637991.85	
9964.00	87.76	160.38	6959.33	-3294.94	1048.57	3457.24	0.20	357383.73	1638006.99	
10008.00	87.48	159.99	6961.15	-3336.30	1063.47	3501.19	1.09	357342.37	1638021.89	
10053.00	89.09	162.39	6962.50	-3378.87	1077.97	3546.17	6.42	357299.80	1638036.39	
10097.00	89.37	162.06	6963.09	-3420.77	1091.41	3590.16	0.98	357257.90	1638049.82	
10142.00	88.95	161.68	6963.75	-3463.53	1105.41	3635.15	1.26	357215.14	1638063.82	
10186.00	89.23	161.69	6964.45	-3505.30	1119.23	3679.15	0.64	357173.37	1638077.65	
10231.00	89.58	161.64	6964.92	-3548.01	1133.39	3724.14	0.79	357130.66	1638091.80	
10275.00	89.09	160.98	6965.43	-3589.69	1147.49	3768.14	1.87	357088.98	1638105.90	
10320.00	89.44	160.94	6966.01	-3632.22	1162.16	3813.14	0.78	357046.45	1638120.58	
10364.00	89.37	160.43	6966.46	-3673.74	1176.72	3857.13	1.17	357004.93	1638135.13	
10409.00	89.02	159.86	6967.10	-3716.06	1192.00	3902.12	1.49	356962.61	1638150.41	
10453.00	89.58	160.71	6967.63	-3757.48	1206.84	3946.10	2.31	356921.19	1638165.26	
10498.00	89.93	160.44	6967.83	-3799.92	1221.81	3991.10	0.98	356878.75	1638180.22	
10542.00	89.51	159.58	6968.04	-3841.27	1236.85	4035.09	2.18	356837.40	1638195.26	
10587.00	89.58	159.53	6968.40	-3883.43	1252.57	4080.06	0.19	356795.24	1638210.98	
10631.00	89.93	160.07	6968.59	-3924.72	1267.76	4124.05	1.46	356753.95	1638226.17	
10662.00	89.72	159.54	6968.68	-3953.82	1278.46	4155.03	1.84	356724.85	1638236.87	
10692.00	89.58	158.55	6968.86	-3981.83	1289.19	4185.01	3.33	356696.84	1638247.60	
10723.00	89.37	157.62	6969.15	-4010.59	1300.76	4215.96	3.08	356668.08	1638259.17	
10753.00	89.37	157.34	6969.48	-4038.30	1312.25	4245.89	0.93	356640.37	1638270.66	
10784.00	89.23	157.81	6969.86	-4066.95	1324.07	4276.82	1.58	356611.72	1638282.49	
10814.00	89.44	158.99	6970.20	-4094.84	1335.12	4306.78	3.99	356583.83	1638293.53	
10845.00	89.37	159.37	6970.53	-4123.82	1346.13	4337.75	1.25	356554.85	1638304.55	
10876.00	88.88	158.77	6971.00	-4152.77	1357.21	4368.72	2.50	356525.90	1638315.62	
10906.00	87.41	160.13	6971.97	-4180.84	1367.73	4398.69	6.67	356497.83	1638326.15	
10937.00	88.04	161.54	6973.20	-4210.10	1377.90	4429.66	4.98	356468.57	1638336.31	
10968.00	88.60	162.28	6974.11	-4239.56	1387.52	4460.65	2.99	356439.11	1638345.94	
10998.00	89.65	162.99	6974.57	-4268.19	1396.47	4490.64	4.22	356410.48	1638354.89	
11028.00	90.21	163.09	6974.61	-4296.88	1405.23	4520.62	1.90	356381.79	1638363.64	
11059.00	90.56	162.86	6974.40	-4326.52	1414.30	4551.61	1.35	356352.15	1638372.72	
11090.00	91.40	163.53	6973.87	-4356.19	1423.26	4582.59	3.47	356322.48	1638381.68	
11121.00	91.33	163.55	6973.13	-4385.91	1432.04	4613.56	0.23	356292.76	1638390.46	
11151.00	91.12	163.13	6972.49	-4414.65	1440.64	4643.53	1.56	356264.02	1638399.06	

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APR 27 2015

Office of Oil and Gas
Dept. of Environmental Protection

06/12/2015

Weatherford International Ltd.

DIRECTIONAL REPORT

Company: **DAY BEE OIL & GAS INC.**
 Field: **Tyler County, WV**
 Site: **RPT 8**
 Wellpath: **HORIZONTAL**

Date: **8/20/2013** Time: **08:27:05** Page: **4**
 Co-ordinate(NE) Reference: **Well: 1H, Grid North**
 Vertical (TVD) Reference: **SITE 1260.0**
 Section (VS) Reference: **Well (0.00N,0.00E,161.35Azi)**
 Survey Calculation Method: **Minimum Curvature** Db: **Sybase**

RECEIVED
 Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Annotation
11181.00	89.79	162.37	6972.25	-4443.30	1449.54	4673.52	5.11	356235.37	1638407.95	
11212.00	89.72	161.21	6972.38	-4472.74	1459.23	4704.52	3.75	356205.93	1638417.64	
11243.00	89.58	161.11	6972.57	-4502.08	1469.24	4735.52	0.55	356176.59	1638427.65	
11274.00	89.16	160.36	6972.91	-4531.34	1479.46	4766.51	2.77	356147.33	1638437.88	
11304.00	88.95	159.53	6973.41	-4559.52	1489.75	4796.50	2.85	356119.15	1638448.16	
11335.00	88.88	159.32	6973.99	-4588.54	1500.64	4827.48	0.71	356090.13	1638459.06	
11366.00	88.95	159.32	6974.58	-4617.54	1511.59	4858.45	0.23	356061.13	1638470.00	
11396.00	89.30	160.42	6975.04	-4645.70	1521.91	4888.44	3.85	356032.97	1638480.32	
11427.00	89.51	160.27	6975.36	-4674.89	1532.34	4919.43	0.83	356003.78	1638490.75	
11457.00	89.65	160.25	6975.58	-4703.13	1542.47	4949.43	0.47	355975.54	1638500.88	
11486.00	89.72	160.11	6975.74	-4730.41	1552.30	4978.42	0.54	355948.26	1638510.72	
11517.00	89.86	160.17	6975.85	-4759.57	1562.83	5009.41	0.49	355919.10	1638521.25	
11547.00	90.14	160.68	6975.85	-4787.83	1572.88	5039.41	1.94	355890.84	1638531.30	
11578.00	90.07	160.38	6975.80	-4817.06	1583.22	5070.41	0.99	355861.61	1638541.63	
11609.00	89.58	160.24	6975.89	-4846.25	1593.66	5101.40	1.64	355832.42	1638552.08	
11639.00	88.46	161.63	6976.40	-4874.60	1603.46	5131.39	5.95	355804.07	1638561.87	
11670.00	87.83	161.00	6977.41	-4903.95	1613.39	5162.38	2.87	355774.72	1638571.80	
11700.00	88.04	160.92	6978.49	-4932.29	1623.17	5192.36	0.75	355746.38	1638581.58	
11731.00	88.25	161.55	6979.49	-4961.62	1633.13	5223.34	2.14	355717.05	1638591.55	
11762.00	88.39	161.54	6980.40	-4991.02	1642.94	5254.33	0.45	355687.65	1638601.36	
11793.00	87.97	161.24	6981.39	-5020.38	1652.83	5285.31	1.66	355658.29	1638611.24	
11823.00	87.69	160.90	6982.52	-5048.74	1662.56	5315.29	1.47	355629.93	1638620.97	
11854.00	88.18	161.06	6983.64	-5078.03	1672.65	5346.27	1.66	355600.64	1638631.07	
11884.00	88.81	162.19	6984.43	-5106.49	1682.11	5376.26	4.31	355572.18	1638640.52	
11914.00	88.67	162.12	6985.09	-5135.04	1691.30	5406.25	0.52	355543.63	1638649.71	
11945.00	88.95	162.45	6985.73	-5164.56	1700.73	5437.24	1.40	355514.11	1638659.14	
11989.00	90.70	163.73	6985.86	-5206.65	1713.52	5481.21	4.93	355472.02	1638671.94	
12033.00	90.49	163.74	6985.41	-5248.89	1725.85	5525.17	0.48	355429.78	1638684.26	
12078.00	90.42	163.26	6985.05	-5292.04	1738.63	5570.14	1.08	355386.63	1638697.04	
12123.00	89.93	162.13	6984.91	-5335.00	1752.01	5615.13	2.74	355343.67	1638710.43	
12167.00	88.81	160.16	6985.40	-5376.63	1766.23	5659.12	5.15	355302.04	1638724.64	
12212.00	89.30	159.84	6986.14	-5418.91	1781.62	5704.10	1.30	355259.76	1638740.03	
12256.00	90.42	159.75	6986.25	-5460.20	1796.82	5748.08	2.55	355218.47	1638755.23	
12301.00	90.21	159.22	6986.00	-5502.35	1812.59	5793.06	1.27	355176.32	1638771.00	
12343.00	89.93	159.11	6985.95	-5541.60	1827.52	5835.03	0.72	355137.07	1638785.94	
12388.00	91.89	158.59	6985.23	-5583.56	1843.76	5879.98	4.51	355095.11	1638802.17	
12433.00	91.96	158.39	6983.72	-5625.41	1860.25	5924.90	0.47	355053.26	1638818.66	
12477.00	91.47	157.27	6982.40	-5666.13	1876.84	5968.79	2.78	355012.54	1638835.26	
12522.00	91.19	156.31	6981.36	-5707.48	1894.57	6013.64	2.22	354971.19	1638852.99	
12566.00	89.30	153.87	6981.17	-5747.38	1913.10	6057.37	7.01	354931.29	1638871.52	
12611.00	89.09	153.98	6981.80	-5787.80	1932.88	6101.99	0.53	354890.87	1638891.30	
12655.00	88.95	153.66	6982.56	-5827.28	1952.29	6145.60	0.79	354851.39	1638910.71	
12699.00	89.16	153.64	6983.28	-5866.70	1971.82	6189.20	0.48	354811.97	1638930.23	
12744.00	92.52	156.57	6982.62	-5907.50	1990.76	6233.92	9.91	354771.17	1638949.17	
12788.00	93.01	157.19	6980.50	-5947.92	2008.01	6277.73	1.79	354730.75	1638966.43	
12833.00	93.43	156.81	6977.97	-5989.28	2025.57	6322.53	1.26	354689.39	1638983.98	
12877.00	93.15	158.29	6975.45	-6029.88	2042.34	6366.36	3.42	354648.79	1639000.76	
12921.00	92.87	159.49	6973.14	-6070.87	2058.17	6410.26	2.80	354607.80	1639016.58	
12966.00	91.47	161.04	6971.43	-6113.19	2073.35	6455.21	4.64	354565.48	1639031.76	
13010.00	90.56	163.00	6970.65	-6155.03	2086.93	6499.20	4.91	354523.64	1639045.34	
13055.00	90.35	163.31	6970.30	-6198.10	2099.97	6544.18	0.83	354480.57	1639058.38	
13097.00	90.28	163.60	6970.06	-6238.36	2111.93	6586.15	0.71	354440.31	1639070.34	

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APR 27 2015

Office of Oil and Gas
 WV Dept. of Environmental Protection

Weatherford International Ltd.

DIRECTIONAL REPORT

WV Department of Environmental Protection

Company: HAYBEE OIL & GAS INC. **Date:** 8/20/2013 **Time:** 08:27:05 **Page:** 5
Field: Tyler County, WV **Co-ordinate(NE) Reference:** Well: 1H, Grid North
Site: RPT 8 **Vertical (TVD) Reference:** SITE 1260.0
Wellpath: HORIZONTAL **Section (VS) Reference:** Well (0.00N,0.00E,161.35Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

RECEIVED
Office of Oil and Gas

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Annotation
13142.00	90.28	163.33	6969.84	-6281.50	2124.74	6631.12	0.60	354397.17	1639083.15	
13186.00	90.00	163.02	6969.74	-6323.62	2137.47	6675.10	0.95	354355.05	1639095.88	
13231.00	89.37	162.63	6969.98	-6366.61	2150.76	6720.08	1.65	354312.06	1639109.17	
13273.00	89.16	162.63	6970.52	-6406.69	2163.30	6762.07	0.50	354271.98	1639121.71	
13318.00	88.67	162.12	6971.38	-6449.57	2176.92	6807.05	1.57	354229.10	1639135.33	
13363.00	89.37	162.35	6972.15	-6492.42	2190.65	6852.04	1.64	354186.25	1639149.06	
13407.00	89.79	163.20	6972.47	-6534.44	2203.68	6896.02	2.15	354144.23	1639162.09	
13452.00	90.00	163.73	6972.55	-6577.58	2216.48	6940.99	1.27	354101.09	1639174.90	
13496.00	91.33	163.77	6972.04	-6619.82	2228.79	6984.95	3.02	354058.85	1639187.21	
13540.00	91.12	163.14	6971.10	-6661.99	2241.32	7028.91	1.51	354016.68	1639199.74	
13585.00	91.12	163.01	6970.22	-6705.03	2254.42	7073.88	0.29	353973.64	1639212.83	
13629.00	90.56	160.84	6969.57	-6746.85	2268.07	7117.87	5.09	353931.82	1639226.48	
13673.00	90.98	161.96	6968.98	-6788.55	2282.10	7161.87	2.72	353890.12	1639240.52	
13718.00	91.12	163.00	6968.16	-6831.45	2295.65	7206.85	2.33	353847.22	1639254.06	
13762.00	90.91	163.16	6967.38	-6873.54	2308.45	7250.82	0.60	353805.13	1639266.86	
13807.00	89.72	162.18	6967.13	-6916.50	2321.85	7295.81	3.43	353762.17	1639280.27	
13851.00	89.37	161.90	6967.48	-6958.35	2335.42	7339.80	1.02	353720.32	1639293.83	
13896.00	89.09	161.70	6968.09	-7001.10	2349.47	7384.80	0.76	353677.57	1639307.89	
13940.00	88.74	160.24	6968.92	-7042.68	2363.82	7428.79	3.41	353635.99	1639322.23	
13984.00	89.51	160.18	6969.59	-7084.08	2378.71	7472.77	1.76	353594.59	1639337.13	
14029.00	89.79	160.14	6969.87	-7126.41	2393.99	7517.76	0.63	353552.26	1639352.40	
14073.00	89.72	160.55	6970.05	-7167.84	2408.78	7561.76	0.95	353510.83	1639367.20	
14115.00	89.72	160.65	6970.26	-7207.46	2422.74	7603.75	0.24	353471.21	1639381.15	
14160.00	89.58	161.04	6970.53	-7249.97	2437.50	7648.75	0.92	353428.70	1639395.91	
14204.00	89.37	161.00	6970.94	-7291.57	2451.81	7692.75	0.49	353387.10	1639410.22	
14249.00	89.16	161.19	6971.51	-7334.14	2466.39	7737.74	0.63	353344.53	1639424.80	
14293.00	88.95	161.46	6972.24	-7375.82	2480.48	7781.74	0.78	353302.85	1639438.89	
14338.00	88.81	161.73	6973.12	-7418.51	2494.68	7826.73	0.68	353260.16	1639453.10	
14383.00	89.23	162.64	6973.89	-7461.35	2508.45	7871.71	2.23	353217.32	1639466.86	
14427.00	89.16	163.00	6974.51	-7503.38	2521.44	7915.70	0.83	353175.29	1639479.86	
14472.00	90.00	162.62	6974.84	-7546.37	2534.74	7960.68	2.05	353132.30	1639493.15	
14517.00	89.86	162.64	6974.89	-7589.31	2548.18	8005.67	0.31	353089.36	1639506.59	
14561.00	89.93	162.72	6974.97	-7631.32	2561.27	8049.66	0.24	353047.35	1639519.69	
14606.00	89.86	162.72	6975.06	-7674.29	2574.64	8094.64	0.16	353004.38	1639533.06	
14650.00	89.65	162.67	6975.24	-7716.30	2587.73	8138.63	0.49	352962.37	1639546.14	
14695.00	89.65	162.31	6975.52	-7759.21	2601.27	8183.62	0.80	352919.46	1639559.68	
14740.00	89.37	161.95	6975.90	-7802.04	2615.08	8228.62	1.01	352876.63	1639573.49	LAST MWD SV
14812.00	89.37	161.95	6976.69	-7870.49	2637.38	8300.61	0.00	352808.18	1639595.80	PROJ TO BIT

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
1H PBHL P1		6940.00	-8431.53	2770.79	352247.14	1639729.21	39 27 36.364 N	80 46 33.676 W
1H LP P1		6940.00	-644.74	175.63	360033.93	1637134.04	39 28 52.955 N	80 47 8.182 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

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APR 27 2015

Weatherford International Ltd.

DIRECTIONAL REPORT

WV Department of Environmental Protection

Company: JAY BEE OIL & GAS INC.

Date: 8/20/2013

Time: 08:27:05

Page: 6

Location: Tyler county, WV

Co-ordinate(NE) Reference: Well: 1H, Grid North

Site: RPT#

Vertical (TVD) Reference: SITE 1260.0

Well: 1H

Section (VS) Reference: Well (0.00N,0.00E,161.35Azi)

Orientation: HORIZONTAL

Survey Calculation Method: Minimum Curvature

Db: Sybase

Office of Oil and Gas

APPROVAL

MD ft	TVD ft	
5916.00	5910.04	LAST GYRO SVY
5923.00	5917.04	FIRST MWD SVY
14740.00	6975.90	LAST MWD SVY
14812.00	6976.69	PROJ TO BIT

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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APR 27 2015

Office of Oil and Gas
WV Dept. of Environmental Protection