



MS ENERGY SERVICES
ODESSA, TEXAS

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

* **YATES PETROLEUM** *

JOB NUMBER: 101117505172

WELL NAME: BONBON BNN STATE COM #1H

LOCATION: EDDY COUNTY, NEW MEXICO

SURVEY DATE: FEBRUARY 28,2010

SURVEY ENGINEER: SAMMY SMITH

MAGNETIC DECLINATION: 07.84 GRID NORTH

GYRO REFERENCE BEARING: GRID NORTH

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 089.53
SURF. ELEVATION: 26

*****	*****
***** DEPTH MEASURED IN FEET *****	*****
*****	*** THIS DIRECTIONAL SURVEY REPORT IS ***
COMMENTS: PATRIOT 5	** CORRECT TO THE BEST OF MY KNOWLEDGE **
BRENT PATTERSON	* AND IS SUPPORTED BY ACTUAL FIELD DATA! *
RKB 26'	**
EMAIL:TBUSSELL@YATESPETROLEUM.COM**	**

	** COMPANY REPRESENTATIVE **

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MS ENERGY SERVICES
ODESSA, TEXAS

JOB NUMBER: 101117505172

WELL NAME: BONBON BNN STATE COM #1H

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE	DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
0.0	0.00	0.00	0.000	00.00	000.00	0.00 N	0.00 E	0.00		0.00 AT	000.00
200.0	200.00	0.44	0.027	00.25	093.02	0.02 S	0.44 E	0.13	0.25	0.44 AT	093.02
400.0	399.99	2.31	1.044	01.00	124.12	1.02 S	2.32 E	0.40	0.80	2.53 AT	113.87
600.0	599.96	4.54	3.076	00.75	142.22	3.04 S	4.56 E	0.18	0.37	5.48 AT	123.66
800.0	799.93	5.20	6.731	01.50	182.41	6.69 S	5.25 E	0.52	1.05	8.51 AT	141.84
1000.0	999.89	4.87	10.196	00.50	192.51	10.16 S	4.96 E	0.51	1.01	11.30 AT	153.99
1200.0	1199.89	4.59	10.620	00.25	347.61	10.58 S	4.67 E	0.37	0.73	11.57 AT	156.17
1400.0	1399.89	3.69	10.517	00.50	247.70	10.49 S	3.77 E	0.30	0.60	11.14 AT	160.22
1600.0	1599.88	2.42	10.100	00.50	327.80	10.08 S	2.50 E	0.32	0.64	10.38 AT	166.07
1800.0	1799.86	4.52	8.829	01.50	077.90	8.79 S	4.59 E	0.87	1.74	9.92 AT	152.41
2000.0	1999.70	12.27	7.615	03.00	081.99	7.51 S	12.34 E	0.75	1.51	14.45 AT	121.34
2200.0	2199.56	19.57	7.514	01.25	105.10	7.35 S	19.63 E	0.96	1.91	20.96 AT	110.54
2400.0	2399.54	21.71	7.228	00.50	002.68	7.05 S	21.77 E	0.72	1.44	22.89 AT	107.94
2600.0	2599.54	20.89	6.277	00.50	274.77	6.11 S	20.94 E	0.35	0.69	21.82 AT	106.25
2800.0	2799.53	19.19	5.937	00.50	286.87	5.78 S	19.24 E	0.05	0.11	20.09 AT	106.72
3000.0	2999.52	17.92	5.666	00.25	270.97	5.52 S	17.97 E	0.13	0.27	18.80 AT	107.07
3200.0	3199.52	16.66	5.363	00.50	289.07	5.23 S	16.71 E	0.14	0.27	17.51 AT	107.37
3400.0	3399.52	15.62	4.695	00.25	329.16	4.57 S	15.66 E	0.17	0.35	16.31 AT	106.26
3600.0	3599.51	14.13	3.986	00.75	284.26	3.87 S	14.17 E	0.30	0.60	14.69 AT	105.28
3800.0	3799.50	12.06	3.314	00.50	292.36	3.22 S	12.09 E	0.13	0.26	12.51 AT	104.89
4000.0	3999.49	10.68	3.625	00.50	221.45	3.54 S	10.71 E	0.29	0.58	11.28 AT	108.28
4200.0	4199.48	9.67	5.037	00.50	208.55	4.96 S	9.71 E	0.06	0.11	10.90 AT	117.05
4400.0	4399.48	9.19	6.232	00.25	187.65	6.16 S	9.24 E	0.14	0.28	11.10 AT	123.69
4600.0	4599.47	9.03	7.532	00.50	185.75	7.46 S	9.09 E	0.13	0.25	11.76 AT	129.36
4800.0	4799.46	8.72	9.691	00.75	188.84	9.62 S	8.80 E	0.13	0.25	13.04 AT	137.54
5000.0	4999.44	8.53	12.728	01.00	178.94	12.66 S	8.63 E	0.15	0.29	15.32 AT	145.70
5200.0	5199.41	8.56	16.218	01.00	179.04	16.15 S	8.69 E	0.00	0.00	18.34 AT	151.70
5400.0	5399.39	8.45	18.826	00.50	188.13	18.76 S	8.60 E	0.26	0.51	20.63 AT	155.37
5600.0	5599.38	7.41	20.636	00.75	223.23	20.57 S	7.58 E	0.22	0.45	21.93 AT	159.77
5800.0	5799.36	6.11	22.828	00.75	197.33	22.78 S	6.29 E	0.17	0.34	23.63 AT	164.55
6000.0	5999.33	5.75	26.256	01.25	178.42	26.21 S	5.96 E	0.30	0.59	26.88 AT	167.18
6200.0	6199.25	4.66	31.737	02.00	198.51	31.70 S	4.92 E	0.47	0.93	32.08 AT	171.18
6350.0	6349.06	2.94	39.041	03.75	189.69	39.02 S	3.26 E	1.20	1.80	39.15 AT	175.22

 * THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF *
 * ***** *
 * 6350.00 FEET EQUALS 39.15 FEET AT 175.22 *
 * ***** *

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

YATES PETROLEUM CORP.
BONBON "BNN" STATE COM
EDDY COUNTY, NEW MEXICO
Rig: PATRIOT 5

Fri Feb 19 14:19:14 2010

Coordinates

Latitude: 32.095226 N (32 deg. 5 min. 42.8139 sec.)
Longitude: 104.082464 W (-104 deg. 4 min. 56.8695 sec.)
Elevation: 2964.00 feet.
Calculation Date: Feb/19/2010

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.0082 degrees
Total Magnetic Field: 0.48615 gauss
Magnetic Declination: 7.968464 degrees
Horizontal Intensity: 0.243016 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.968464 Degr

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 619023.7070 feet
Y: 398470.3690 feet
True to Grid: (convergence) -0.133295 degrees
Magnetic to Grid: 7.835169 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.835169 Degr.