

Preliminary Horizontal Planning Worksheet

Fill in the Blue Boxes

Yellow Boxes are Calculated

7/22/2015

Well Name:		Pavo Macho 31 B2LI Fed #1H	
Surface Location:		1980 FSL & 185 FWL	
State/ County		NM/Eddy	
S-T-R or Section-Block-Survey (Texas)		Section 31/ 18S/ 29E	
Target Formation:		2nd Bone Spring "C" Sand	
Elevation of SL			
Ground Level:		3389	
Height of KB:		25	
KB Elevation:		3414	
Landing Point			
Footing Calls		1943 FSL & 652 FWL Sec 31/18S/29E	
Subsea Depth		-4050	
TVD =		7464	
PBHL			
Footing Calls		1650 FSL & 330 FEL Sec 31/18S/29E	
Subsea Depth		-4125	
TVD =		7539	
Lateral Length:		4070.60	
Estimated KOP:		6986.54	
Est. Total Depth:		11798.32	

PBHL Offsets =	-354.74	NS
	4525.37	EW

Oil Conservation Division
Case No.
Exhibit No. A

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Pavo Macho 31 B2LI Fed #11
KOP 6986.54

SL: 150 FNL & 1400 FWL Sec 6-20S-29E
BHL: 330 FSL & 1400 FWL Sec 6-20S-29E

Target KBTVD: 7,464 Feet 7464.00
Target Angle: 88.94 Degrees 88.94
Section Plane: 94.48 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Survey No.	Measured Depth-ft	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	Closure Distance	Closure Direction	BUR	DLS	KBTVD	+Above -Below Target	DRIFT RADIANS	AZIMUTH (RADIAN)
T/I	6986.54	0.00	94.48	N/A	6986.5	0.0	0.0	0.0	0.0	0.0	N/A	N/A	6986.5	477.5	1E-12	1.65 #VALUE!
1	7060.65	8.89	94.48	74.118	7060.4	5.7	-0.4	5.7	5.7	94.5	12.0	12.0	7060.3	403.7	0.155233	1.65 0.1552334
2	7134.77	17.79	94.48	74.118	7132.4	22.8	-1.8	22.8	22.8	94.5	12.0	12.0	7132.0	332.0	0.310467	1.65 0.1552334
3	7208.89	26.68	94.48	74.118	7200.9	50.8	-4.0	50.7	50.8	94.5	12.0	12.0	7200.0	264.0	0.4657	1.65 0.1552334
4	7283.01	35.58	94.48	74.118	7264.3	89.1	-7.0	88.9	89.1	94.5	12.0	12.0	7262.7	201.3	0.620933	1.65 0.1552334
5	7357.13	44.47	94.48	74.118	7321.0	136.7	-10.7	136.3	136.7	94.5	12.0	12.0	7318.5	145.5	0.776167	1.65 0.1552334
6	7431.25	53.37	94.48	74.118	7369.7	192.6	-15.0	192.0	192.6	94.5	12.0	12.0	7366.1	97.9	0.9314	1.65 0.1552334
7	7505.36	62.26	94.48	74.118	7409.1	255.2	-19.9	254.4	255.2	94.5	12.0	12.0	7404.4	59.6	1.086634	1.65 0.1552334
8	7579.48	71.15	94.48	74.118	7438.4	323.2	-25.3	322.2	323.2	94.5	12.0	12.0	7432.4	31.6	1.241867	1.65 0.1552334
9	7653.60	80.05	94.48	74.118	7456.8	394.9	-30.9	393.7	394.9	94.5	12.0	12.0	7449.5	14.5	1.3971	1.65 0.1552334
10	7727.72	88.94	94.48	74.118	7463.9	468.7	-36.6	467.2	468.7	94.5	12.0	12.0	7455.3	8.7	1.552334	1.65 0.1552334
11	7800.00	88.94	94.48	72.28	7465.3	540.9	-42.3	539.3	540.9	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
12	7800.00	88.94	94.48	100	7467.1	640.9	-50.1	638.9	640.9	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
13	8000.00	88.94	94.48	100	7468.9	740.9	-57.9	738.6	740.9	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
14	8100.00	88.94	94.48	100	7470.8	840.9	-65.7	838.3	840.9	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
15	8200.00	88.94	94.48	100	7472.6	940.8	-73.5	938.0	940.8	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
16	8300.00	88.94	94.48	100	7474.5	1040.8	-81.3	1037.6	1040.8	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
17	8400.00	88.94	94.48	100	7476.3	1140.8	-89.2	1137.3	1140.8	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
18	8500.00	88.94	94.48	100	7478.2	1240.8	-97.0	1237.0	1240.8	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
19	8600.00	88.94	94.48	100	7480.0	1340.8	-104.8	1336.7	1340.8	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
20	8700.00	88.94	94.48	100	7481.9	1440.8	-112.6	1436.4	1440.8	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
21	8800.00	88.94	94.48	100	7483.7	1540.7	-120.4	1536.0	1540.7	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
22	8900.00	88.94	94.48	100	7485.6	1640.7	-128.2	1635.7	1640.7	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
23	9000.00	88.94	94.48	100	7487.4	1740.7	-136.0	1735.4	1740.7	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
24	9100.00	88.94	94.48	100	7489.3	1840.7	-143.8	1835.1	1840.7	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
25	9200.00	88.94	94.48	100	7491.1	1940.7	-151.7	1934.7	1940.7	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
26	9300.00	88.94	94.48	100	7492.9	2040.7	-159.5	2034.4	2040.7	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
27	9400.00	88.94	94.48	100	7494.8	2140.6	-167.3	2134.1	2140.6	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
28	9500.00	88.94	94.48	100	7496.6	2240.6	-175.1	2233.8	2240.6	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
29	9600.00	88.94	94.48	100	7498.5	2340.6	-182.9	2333.5	2340.6	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
30	9700.00	88.94	94.48	100	7500.3	2440.6	-190.7	2433.1	2440.6	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
31	9800.00	88.94	94.48	100	7502.2	2540.6	-198.5	2532.8	2540.6	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
32	9900.00	88.94	94.48	100	7504.0	2640.6	-206.4	2632.5	2640.6	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
33	10000.00	88.94	94.48	100	7505.9	2740.5	-214.2	2732.2	2740.5	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
34	10100.00	88.94	94.48	100	7507.7	2840.5	-222.0	2831.8	2840.5	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
35	10200.00	88.94	94.48	100	7509.6	2940.5	-229.8	2931.5	2940.5	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
36	10300.00	88.94	94.48	100	7511.4	3040.5	-237.6	3031.2	3040.5	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
37	10400.00	88.94	94.48	100	7513.3	3140.5	-245.4	3130.9	3140.5	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
38	10500.00	88.94	94.48	100	7515.1	3240.5	-253.2	3230.5	3240.5	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
39	10600.00	88.94	94.48	100	7516.9	3340.4	-261.1	3330.2	3340.4	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
40	10700.00	88.94	94.48	100	7518.8	3440.4	-268.9	3429.9	3440.4	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
41	10800.00	88.94	94.48	100	7520.6	3540.4	-276.7	3529.6	3540.4	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
42	10900.00	88.94	94.48	100	7522.5	3640.4	-284.5	3629.3	3640.4	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
43	11000.00	88.94	94.48	100	7524.3	3740.4	-292.3	3728.9	3740.4	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
44	11100.00	88.94	94.48	100	7526.2	3840.4	-300.1	3828.6	3840.4	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
45	11200.00	88.94	94.48	100	7528.0	3940.3	-307.9	3928.3	3940.3	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
46	11300.00	88.94	94.48	100	7529.9	4040.3	-315.7	4028.0	4040.3	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
47	11400.00	88.94	94.48	100	7531.7	4140.3	-323.6	4127.6	4140.3	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
48	11500.00	88.94	94.48	100	7533.6	4240.3	-331.4	4227.3	4240.3	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
49	11600.00	88.94	94.48	100	7535.4	4340.3	-339.2	4327.0	4340.3	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
50	11700.00	88.94	94.48	100	7537.3	4440.3	-347.0	4426.7	4440.3	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10
51	11799.32	88.94	94.48	98.322	7539.1	4538.6	-354.7	4524.7	4538.6	94.5	0.0	0.0	7455.3	8.7	1.552334	1.65 1E-10