

OPERATOR		FIELD NAME		Well name/No		Rig Name & No.		QDM Job No.		Calculation Method		Minimum Curvature	
Mewbourne Oil		n/a		Orca 11 Fed Com #1		Patterson 45		01215-433-21		Proposed Azimuth		0.00	
MWD OPERATOR		DIR SUPERVISOR		COUNTY		STATE		Start Date		Depth Reference:		RKB	
Kevin Niemeyer		Randy Scannell		Eddy		New Mexico		Friday May 29, 2		Tie Into:		MWD	
DipA: 60.06		Mag Field: #####		Mag Dec: 0		Grid Cor.: n/a				Job Service:		Directional	
Mag Spacing Req.		Mag Spacing Actual		Mag Spacing Req.		Mag Spacing Actual							
Below 5		Below 44		Above 9		Above 18							
Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (° /100')	Build Rate (° /100')	Walk Rate (° /100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
Tie-In	9380.00	8.51	281.16	0.00	9375.88	61.29	-8.52	-60.69	61.29	262.0	0.9	0.0	0.0
1	9441.00	8.50	267.80	61.00	9436.22	-7.82	7.82	S 69.62	70.06	263.6	3.2	0.0	-21.9
2	9473.00	8.80	267.50	32.00	9467.85	-8.02	8.02	S 74.43	W 74.86	263.9	0.9	0.9	-0.9
3	9504.00	8.90	268.30	31.00	9498.48	-8.19	8.19	S 79.20	W 79.62	264.1	0.5	0.3	2.6
4	9536.00	9.10	267.50	32.00	9530.09	-8.38	8.38	S 84.20	W 84.62	264.3	0.7	0.6	-2.5
5	9567.00	9.30	266.20	31.00	9560.69	-8.65	8.65	S 89.15	W 89.57	264.5	0.9	0.6	-4.2
6	9599.00	8.90	264.20	32.00	9592.29	-9.07	9.07	S 94.19	W 94.63	264.5	1.6	-1.3	-6.3
7	9630.00	8.60	261.70	31.00	9622.93	-9.65	9.65	S 98.87	W 99.34	264.4	1.6	-1.0	-8.1
8	9662.00	8.40	260.40	32.00	9654.57	-10.38	10.38	S 103.54	W 104.06	264.3	0.9	-0.6	-4.1
9	9694.00	8.30	259.50	32.00	9686.24	-11.19	11.19	S 108.12	W 108.70	264.1	0.5	-0.3	-2.8
10	9725.00	8.00	258.30	31.00	9716.92	-12.04	12.04	S 112.43	W 113.07	263.9	1.1	-1.0	-3.9
11	9757.00	7.20	256.50	32.00	9748.64	-12.96	12.96	S 116.56	W 117.28	263.7	2.6	-2.5	-5.6
12	9788.00	6.90	255.90	31.00	9779.41	-13.86	13.86	S 120.26	W 121.05	263.4	1.0	-1.0	-1.9
13	9820.00	6.40	255.90	32.00	9811.19	-14.77	14.77	S 123.85	W 124.73	263.2	1.6	-1.6	0.0
14	9852.00	5.90	255.90	32.00	9843.01	-15.60	15.60	S 127.18	W 128.13	263.0	1.6	-1.6	0.0
15	9883.00	5.60	256.30	31.00	9873.85	-16.35	16.35	S 130.19	W 131.21	262.8	1.0	-1.0	1.3
16	9915.00	5.40	255.70	32.00	9905.70	-17.09	17.09	S 133.17	W 134.26	262.7	0.7	-0.6	-1.9
17	9946.00	5.20	255.40	31.00	9936.57	-17.81	17.81	S 135.94	W 137.10	262.5	0.7	-0.6	-1.0
18	9978.00	5.20	255.80	32.00	9968.44	-18.53	18.53	S 138.75	W 139.98	262.4	0.1	0.0	1.3
19	10010.00	4.60	256.20	32.00	10000.32	-19.19	19.19	S 141.40	W 142.70	262.3	1.9	-1.9	1.2
20	10040.00	4.10	253.10	30.00	10030.24	-19.79	19.79	S 143.60	W 144.95	262.2	1.8	-1.7	-10.3
21	10073.00	4.00	253.90	33.00	10063.15	-20.45	20.45	S 145.83	W 147.26	262.0	0.3	-0.3	2.4
22	10104.00	4.00	254.40	31.00	10094.08	-21.04	21.04	S 147.91	W 149.40	261.9	0.1	0.0	1.6

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23	10136.00	3.80	254.50	32.00	10126.00	-21.62	21.62	S	150.01	W	151.56	261.8	0.6	-0.6	0.3
24	10167.00	3.60	256.60	31.00	10156.94	-22.12	22.12	S	151.94	W	153.55	261.7	0.8	-0.6	6.8
25	10199.00	3.30	259.30	32.00	10188.88	-22.53	22.53	S	153.83	W	155.47	261.7	1.1	-0.9	8.4
26	10232.00	3.20	263.30	33.00	10221.83	-22.81	22.81	S	155.67	W	157.34	261.7	0.8	-0.3	12.1
27	10262.00	2.90	260.10	30.00	10251.79	-23.04	23.04	S	157.25	W	158.93	261.7	1.1	-1.0	-10.7
28	10294.00	2.60	268.70	32.00	10283.75	-23.19	23.19	S	158.78	W	160.46	261.7	1.6	-0.9	26.9
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