Mewbourne Oil Company

Eddy County, New Mexico
Rio Bravo 17/20 W2AP Fed Com #1H
Sec 17, T21S, R25E
SL 195' FNL & 1225' FEL, Sec 17
BHL 330' FSL & 660' FEL, Sec 20

Plan Design #1

Standard Planning Report

14 November, 2016

Database	Hobbs	**Local Co ordinate Reference**	Site Rio Bravo 17/20 W2AP Fed Com #1H
Company	Mewbourne Oil Company	**TVD Reference**	WELL @ 3404 0usft (Original Well Elev)
Project	Eddy County New Mexico	**MD Reference**	WELL @ 3404 0usft (Original Well Elev)
Site	Rio Bravo 17/20 W2AP Fed Com #1H	**North Reference**	Grid
Well	Sec 17 T21S R25E	**Survey Calculation Method**	Minimum Curvature
Wellbore	BHL 330 FSL & 660 FEL Sec 20		
Design	Design #1		

Project	Eddy County New Mexico		
Map System	US State Plane 1927 (Exact solution)	**System Datum**	Mean Sea Level
Geo Datum	NAD 1927 (NADCON CONUS)		
Map Zone	New Mexico East 3001		

Site	Rio Bravo 17/20 W2AP Fed Com #1H				
Site Position		**Northing**	540 583 00 usft	**Latitude**	32 29 10 136 N
From	Map	**Easting**	475 585 00 usft	**Longitude**	104 24 45 048 W
Position Uncertainty	0 0 usft	**Slot Radius**	13 3/16	**Grid Convergence**	0 04

Well	Sec 17 T21S R25E					
Well Position	**+N/ S**	0 0 usft	**Northing**	540 583 00 usft	**Latitude**	32 29 10 136 N
	+E/ W	0 0 usft	**Easting**	475 585 00 usft	**Longitude**	104 24 45 048 W
Position Uncertainty		0 0 usft	**Wellhead Elevation**	3 404 0 usft	**Ground Level**	3 377 0 usft

Wellbore	BHL 330 FSL & 660 FEL Sec 20				
Magnetics	**Model Name**	**Sample Date**	**Declination ( )**	**Dip Angle ( )**	**Field Strength (nT)**
	IGRF200510	12/31/2009	8 15	60 34	48 855

Design	Design #1			
Audit Notes				
Version	**Phase**	PROTOTYPE	**Tie On Depth**	0 0

Vertical Section	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/ W (usft)**	**Direction ( )**
	0 0	0 0	0 0	176 83

Plan Sections

Measured Depth (usft)	Inclination ( )	Azimuth ( )	Vertical Depth (usft)	+N/-S (usft)	+E/ W (usft)	Dogleg Rate (/100usft)	Build Rate (/100usft)	Turn Rate (/100usft)	TFO ( )	Target
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 00	0 00	0 00	
7 307 0	0 00	0 00	7 307 0	0 0	0 0	0 00	0 00	0 00	0 00	KOP @ 7307
8 207 0	90 00	144 23	7 880 0	464 9	334 9	10 00	10 00	0 00	144 23	
8 207 2	90 00	144 23	7 880 0	465 0	335 0	0 00	0 00	0 00	0 00	LP 660 FNL & 890 F
8 921 3	89 85	179 94	7 881 0	1 133 6	551 2	5 00	0 02	5 00	90 26	BHL 330 FSL & 660
17 916 8	89 85	179 94	7 904 5	10 129 0	561 0	0 00	0 00	0 00	0 00	BHL 330 FSL & 660

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Well	Sec 17 T21S R25E	**Survey Calculation Method**	Minimum Curvature
Wellbore	BHL 330 FSL & 660 FEL Sec 20		
Design	Design #1		

Planned Survey

Measured Depth (usft)	Inclination ( )	Azimuth ( )	Vertical Depth (usft)	+N/ S (usft)	+E/ W (usft)	Vertical Section (usft)	Dogleg Rate (/100usft)	Build Rate (/100usft)	Turn Rate (/100usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 0	0 00	0 00	0 00
SL 195 FNL & 1225 FEL Sec 17									
100 0	0 00	0 00	100 0	0 0	0 0	0 0	0 00	0 00	0 00
200 0	0 00	0 00	200 0	0 0	0 0	0 0	0 00	0 00	0 00
300 0	0 00	0 00	300 0	0 0	0 0	0 0	0 00	0 00	0 00
400 0	0 00	0 00	400 0	0 0	0 0	0 0	0 00	0 00	0 00
500 0	0 00	0 00	500 0	0 0	0 0	0 0	0 00	0 00	0 00
600 0	0 00	0 00	600 0	0 0	0 0	0 0	0 00	0 00	0 00
700 0	0 00	0 00	700 0	0 0	0 0	0 0	0 00	0 00	0 00
800 0	0 00	0 00	800 0	0 0	0 0	0 0	0 00	0 00	0 00
900 0	0 00	0 00	900 0	0 0	0 0	0 0	0 00	0 00	0 00
1 000 0	0 00	0 00	1 000 0	0 0	0 0	0 0	0 00	0 00	0 00
1 100 0	0 00	0 00	1 100 0	0 0	0 0	0 0	0 00	0 00	0 00
1 200 0	0 00	0 00	1 200 0	0 0	0 0	0 0	0 00	0 00	0 00
1 300 0	0 00	0 00	1 300 0	0 0	0 0	0 0	0 00	0 00	0 00
1 400 0	0 00	0 00	1 400 0	0 0	0 0	0 0	0 00	0 00	0 00
1 500 0	0 00	0 00	1 500 0	0 0	0 0	0 0	0 00	0 00	0 00
1 600 0	0 00	0 00	1 600 0	0 0	0 0	0 0	0 00	0 00	0 00
1 700 0	0 00	0 00	1 700 0	0 0	0 0	0 0	0 00	0 00	0 00
1 800 0	0 00	0 00	1 800 0	0 0	0 0	0 0	0 00	0 00	0 00
1 900 0	0 00	0 00	1 900 0	0 0	0 0	0 0	0 00	0 00	0 00
2 000 0	0 00	0 00	2 000 0	0 0	0 0	0 0	0 00	0 00	0 00
2 100 0	0 00	0 00	2 100 0	0 0	0 0	0 0	0 00	0 00	0 00
2 200 0	0 00	0 00	2 200 0	0 0	0 0	0 0	0 00	0 00	0 00
2 300 0	0 00	0 00	2 300 0	0 0	0 0	0 0	0 00	0 00	0 00
2 400 0	0 00	0 00	2 400 0	0 0	0 0	0 0	0 00	0 00	0 00
2 500 0	0 00	0 00	2 500 0	0 0	0 0	0 0	0 00	0 00	0 00
2 600 0	0 00	0 00	2 600 0	0 0	0 0	0 0	0 00	0 00	0 00
2 700 0	0 00	0 00	2 700 0	0 0	0 0	0 0	0 00	0 00	0 00
2 800 0	0 00	0 00	2 800 0	0 0	0 0	0 0	0 00	0 00	0 00
2 900 0	0 00	0 00	2 900 0	0 0	0 0	0 0	0 00	0 00	0 00
3 000 0	0 00	0 00	3 000 0	0 0	0 0	0 0	0 00	0 00	0 00
3 100 0	0 00	0 00	3 100 0	0 0	0 0	0 0	0 00	0 00	0 00
3 200 0	0 00	0 00	3 200 0	0 0	0 0	0 0	0 00	0 00	0 00
3 300 0	0 00	0 00	3 300 0	0 0	0 0	0 0	0 00	0 00	0 00
3 400 0	0 00	0 00	3 400 0	0 0	0 0	0 0	0 00	0 00	0 00
3 500 0	0 00	0 00	3 500 0	0 0	0 0	0 0	0 00	0 00	0 00
3 600 0	0 00	0 00	3 600 0	0 0	0 0	0 0	0 00	0 00	0 00
3 700 0	0 00	0 00	3 700 0	0 0	0 0	0 0	0 00	0 00	0 00
3 800 0	0 00	0 00	3 800 0	0 0	0 0	0 0	0 00	0 00	0 00
3 900 0	0 00	0 00	3 900 0	0 0	0 0	0 0	0 00	0 00	0 00
4 000 0	0 00	0 00	4 000 0	0 0	0 0	0 0	0 00	0 00	0 00
4 100 0	0 00	0 00	4 100 0	0 0	0 0	0 0	0 00	0 00	0 00
4 200 0	0 00	0 00	4 200 0	0 0	0 0	0 0	0 00	0 00	0 00
4 300 0	0 00	0 00	4 300 0	0 0	0 0	0 0	0 00	0 00	0 00
4 400 0	0 00	0 00	4 400 0	0 0	0 0	0 0	0 00	0 00	0 00
4 500 0	0 00	0 00	4 500 0	0 0	0 0	0 0	0 00	0 00	0 00
4 600 0	0 00	0 00	4 600 0	0 0	0 0	0 0	0 00	0 00	0 00
4 700 0	0 00	0 00	4 700 0	0 0	0 0	0 0	0 00	0 00	0 00
4 800 0	0 00	0 00	4 800 0	0 0	0 0	0 0	0 00	0 00	0 00
4 900 0	0 00	0 00	4 900 0	0 0	0 0	0 0	0 00	0 00	0 00
5 000 0	0 00	0 00	5 000 0	0 0	0 0	0 0	0 00	0 00	0 00
5 100 0	0 00	0 00	5 100 0	0 0	0 0	0 0	0 00	0 00	0 00
5 200 0	0 00	0 00	5 200 0	0 0	0 0	0 0	0 00	0 00	0 00

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Well	Sec 17 T21S R25E	**Survey Calculation Method**	Minimum Curvature
Wellbore	BHL 330 FSL & 660 FEL Sec 20		
Design	Design #1		

Planned Survey

Measured Depth (usft)	Inclination ( )	Azimuth ( )	Vertical Depth (usft)	+N/ S (usft)	+E/ W (usft)	Vertical Section (usft)	Dogleg Rate (/100usft)	Build Rate (/100usft)	Turn Rate (/100usft)
5 300 0	0 00	0 00	5 300 0	0 0	0 0	0 0	0 00	0 00	0 00
5 400 0	0 00	0 00	5 400 0	0 0	0 0	0 0	0 00	0 00	0 00
5 500 0	0 00	0 00	5 500 0	0 0	0 0	0 0	0 00	0 00	0 00
5 600 0	0 00	0 00	5 600 0	0 0	0 0	0 0	0 00	0 00	0 00
5 700 0	0 00	0 00	5 700 0	0 0	0 0	0 0	0 00	0 00	0 00
5 800 0	0 00	0 00	5 800 0	0 0	0 0	0 0	0 00	0 00	0 00
5 900 0	0 00	0 00	5 900 0	0 0	0 0	0 0	0 00	0 00	0 00
6 000 0	0 00	0 00	6 000 0	0 0	0 0	0 0	0 00	0 00	0 00
6 100 0	0 00	0 00	6 100 0	0 0	0 0	0 0	0 00	0 00	0 00
6 200 0	0 00	0 00	6 200 0	0 0	0 0	0 0	0 00	0 00	0 00
6 300 0	0 00	0 00	6 300 0	0 0	0 0	0 0	0 00	0 00	0 00
6 400 0	0 00	0 00	6 400 0	0 0	0 0	0 0	0 00	0 00	0 00
6 500 0	0 00	0 00	6 500 0	0 0	0 0	0 0	0 00	0 00	0 00
6 600 0	0 00	0 00	6 600 0	0 0	0 0	0 0	0 00	0 00	0 00
6 700 0	0 00	0 00	6 700 0	0 0	0 0	0 0	0 00	0 00	0 00
6 800 0	0 00	0 00	6 800 0	0 0	0 0	0 0	0 00	0 00	0 00
6 900 0	0 00	0 00	6 900 0	0 0	0 0	0 0	0 00	0 00	0 00
7 000 0	0 00	0 00	7 000 0	0 0	0 0	0 0	0 00	0 00	0 00
7 100 0	0 00	0 00	7 100 0	0 0	0 0	0 0	0 00	0 00	0 00
7 200 0	0 00	0 00	7 200 0	0 0	0 0	0 0	0 00	0 00	0 00
7 300 0	0 00	0 00	7 300 0	0 0	0 0	0 0	0 00	0 00	0 00
7 307 0	0 00	0 00	7 307 0	0 0	0 0	0 0	0 00	0 00	0 00
KOP @ 7307									
7 400 0	9 30	144 23	7 399 6	6 1	4 4	6 3	10 00	10 00	0 00
7 500 0	19 30	144 23	7 496 4	26 1	18 8	27 1	10 00	10 00	0 00
7 600 0	29 30	144 23	7 587 4	59 5	42 8	61 7	10 00	10 00	0 00
7 700 0	39 30	144 23	7 669 9	105 1	75 7	109 1	10 00	10 00	0 00
7 800 0	49 30	144 23	7 741 4	161 7	116 5	167 9	10 00	10 00	0 00
7 900 0	59 30	144 23	7 799 7	227 5	163 9	236 2	10 00	10 00	0 00
8 000 0	69 30	144 23	7 843 0	300 5	216 5	312 0	10 00	10 00	0 00
8 033 5	72 64	144 23	7 853 9	326 2	235 0	338 7	10 00	10 00	0 00
FTP 521 FNL & 990 FEL Sec 17									
8 100 0	79 30	144 23	7 870 0	378 5	272 7	393 0	10 00	10 00	0 00
8 200 0	89 30	144 23	7 880 0	459 2	330 8	476 8	10 00	10 00	0 00
8 207 0	90 00	144 23	7 880 0	-464 9	334 9	482 7	10 00	10 00	0 00
8 207 2	90 00	144 23	7 880 0	-465 0	335 0	482 8	0 00	0 00	0 00
LP 660 FNL & 890 FEL Sec 17									
8 300 0	89 98	148 87	7 880 0	542 4	386 1	562 9	5 00	0 02	5 00
8 400 0	89 96	153 87	7 880 1	630 2	434 0	653 2	5 00	0 02	5 00
8 500 0	89 94	158 87	7 880 2	721 7	474 1	746 9	5 00	0 02	5 00
8 600 0	89 91	163 87	7 880 3	816 5	506 0	843 2	5 00	0 02	5 00
8 700 0	89 89	168 87	7 880 5	913 6	529 6	941 5	5 00	0 02	5 00
8 800 0	89 87	173 87	7 880 7	1 012 5	544 6	1 041 0	5 00	0 02	5 00
8 900 0	89 85	178 87	7 880 9	1 112 2	550 9	1 141 0	5 00	0 02	5 00
8 921 3	89 85	179 94	7 881 0	1 133 6	551 2	1 162 3	5 00	0 02	5 00
9 000 0	89 85	179 94	7 881 2	1 212 2	551 2	1 240 9	0 00	0 00	0 00
9 100 0	89 85	179 94	7 881 4	1 312 2	551 4	1 340 7	0 00	0 00	0 00
9 200 0	89 85	179 94	7 881 7	1 412 2	551 5	1 440 6	0 00	0 00	0 00
9 300 0	89 85	179 94	7 882 0	1 512 2	551 6	1 540 4	0 00	0 00	0 00
9 400 0	89 85	179 94	7 882 2	1 612 2	551 7	1 640 3	0 00	0 00	0 00
9 500 0	89 85	179 94	7 882 5	1 712 2	551 8	1 740 1	0 00	0 00	0 00
9 600 0	89 85	179 94	7 882 7	1 812 2	551 9	1 840 0	0 00	0 00	0 00
9 700 0	89 85	179 94	7 883 0	1 912 2	552 0	1 939 8	0 00	0 00	0 00

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Site	Rio Bravo 17/20 W2AP Fed Com #1H	**North Reference**	Grid
Well	Sec 17 T21S R25E	**Survey Calculation Method**	Minimum Curvature
Wellbore	BHL 330 FSL & 660 FEL Sec 20		
Design	Design #1		

Planned Survey

Measured Depth (usft)	Inclination ( )	Azimuth ( )	Vertical Depth (usft)	+N/ S (usft)	+E/ W (usft)	Vertical Section (usft)	Dogleg Rate (/100usft)	Build Rate (/100usft)	Turn Rate (/100usft)
9 800 0	89 85	179 94	7 883 3	2 012 2	552 1	2 039 7	0 00	0 00	0 00
9 900 0	89 85	179 94	7 883 5	2 112 2	552 2	2 139 5	0 00	0 00	0 00
10 000 0	89 85	179 94	7 883 8	2 212 2	552 3	2 239 4	0 00	0 00	0 00
10 100 0	89 85	179 94	7 884 1	2 312 2	552 4	2 339 2	0 00	0 00	0 00
10 200 0	89 85	179 94	7 884 3	2 412 2	552 6	2 439 1	0 00	0 00	0 00
10 300 0	89 85	179 94	7 884 6	2 512 2	552 7	2 538 9	0 00	0 00	0 00
10 400 0	89 85	179 94	7 884 8	2 612 2	552 8	2 638 8	0 00	0 00	0 00
10 500 0	89 85	179 94	7 885 1	2 712 2	552 9	2 738 7	0 00	0 00	0 00
10 600 0	89 85	179 94	7 885 4	2 812 2	553 0	2 838 5	0 00	0 00	0 00
10 700 0	89 85	179 94	7 885 6	2 912 2	553 1	2 938 4	0 00	0 00	0 00
10 800 0	89 85	179 94	7 885 9	3 012 2	553 2	3 038 2	0 00	0 00	0 00
10 900 0	89 85	179 94	7 886 1	3 112 2	553 3	3 138 1	0 00	0 00	0 00
11 000 0	89 85	179 94	7 886 4	3 212 2	553 4	3 237 9	0 00	0 00	0 00
11 100 0	89 85	179 94	7 886 7	3 312 2	553 5	3 337 8	0 00	0 00	0 00
11 200 0	89 85	179 94	7 886 9	3 412 2	553 6	3 437 6	0 00	0 00	0 00
11 300 0	89 85	179 94	7 887 2	3 512 2	553 8	3 537 5	0 00	0 00	0 00
11 400 0	89 85	179 94	7 887 5	3 612 2	553 9	3 637 3	0 00	0 00	0 00
11 500 0	89 85	179 94	7 887 7	3 712 2	554 0	3 737 2	0 00	0 00	0 00
11 600 0	89 85	179 94	7 888 0	3 812 2	554 1	3 837 0	0 00	0 00	0 00
11 700 0	89 85	179 94	7 888 2	3 912 2	554 2	3 936 9	0 00	0 00	0 00
11 800 0	89 85	179 94	7 888 5	4 012 2	554 3	4 036 7	0 00	0 00	0 00
11 900 0	89 85	179 94	7 888 8	4 112 2	554 4	4 136 6	0 00	0 00	0 00
12 000 0	89 85	179 94	7 889 0	4 212 2	554 5	4 236 4	0 00	0 00	0 00
12 100 0	89 85	179 94	7 889 3	-4 312 2	554 6	4 336 3	0 00	0 00	0 00
12 200 0	89 85	179 94	7 889 5	-4 412 2	554 7	4 436 1	0 00	0 00	0 00
12 300 0	89 85	179 94	7 889 8	-4 512 2	554 9	4 536 0	0 00	0 00	0 00
12 400 0	89 85	179 94	7 890 1	-4 612 2	555 0	4 635 9	0 00	0 00	0 00
12 500 0	89 85	179 94	7 890 3	4 712 2	555 1	4 735 7	0 00	0 00	0 00
12 600 0	89 85	179 94	7 890 6	4 812 2	555 2	4 835 6	0 00	0 00	0 00
12 700 0	89 85	179 94	7 890 9	4 912 2	555 3	4 935 4	0 00	0 00	0 00
12 800 0	89 85	179 94	7 891 1	5 012 2	555 4	5 035 3	0 00	0 00	0 00
12 900 0	89 85	179 94	7 891 4	5 112 2	555 5	5 135 1	0 00	0 00	0 00
13 000 0	89 85	179 94	7 891 6	5 212 2	555 6	5 235 0	0 00	0 00	0 00
13 100 0	89 85	179 94	7 891 9	5 312 2	555 7	5 334 8	0 00	0 00	0 00
13 200 0	89 85	179 94	7 892 2	5 412 2	555 8	5 434 7	0 00	0 00	0 00
13 300 0	89 85	179 94	7 892 4	5 512 2	555 9	5 534 5	0 00	0 00	0 00
13 400 0	89 85	179 94	7 892 7	5 612 2	556 1	5 634 4	0 00	0 00	0 00
13 500 0	89 85	179 94	7 893 0	5 712 2	556 2	5 734 2	0 00	0 00	0 00
13 600 0	89 85	179 94	7 893 2	5 812 2	556 3	5 834 1	0 00	0 00	0 00
13 700 0	89 85	179 94	7 893 5	5 912 2	556 4	5 933 9	0 00	0 00	0 00
13 800 0	89 85	179 94	7 893 7	6 012 2	556 5	6 033 8	0 00	0 00	0 00
13 900 0	89 85	179 94	7 894 0	6 112 2	556 6	6 133 6	0 00	0 00	0 00
14 000 0	89 85	179 94	7 894 3	6 212 2	556 7	6 233 5	0 00	0 00	0 00
14 100 0	89 85	179 94	7 894 5	6 312 2	556 8	6 333 3	0 00	0 00	0 00
14 200 0	89 85	179 94	7 894 8	6 412 2	556 9	6 433 2	0 00	0 00	0 00
14 300 0	89 85	179 94	7 895 0	6 512 2	557 0	6 533 1	0 00	0 00	0 00
14 400 0	89 85	179 94	7 895 3	6 612 2	557 2	6 632 9	0 00	0 00	0 00
14 500 0	89 85	179 94	7 895 6	6 712 2	557 3	6 732 8	0 00	0 00	0 00
14 600 0	89 85	179 94	7 895 8	6 812 2	557 4	6 832 6	0 00	0 00	0 00
14 700 0	89 85	179 94	7 896 1	6 912 2	557 5	6 932 5	0 00	0 00	0 00
14 800 0	89 85	179 94	7 896 4	7 012 2	557 6	7 032 3	0 00	0 00	0 00
14 900 0	89 85	179 94	7 896 6	7 112 2	557 7	7 132 2	0 00	0 00	0 00
15 000 0	89 85	179 94	7 896 9	7 212 2	557 8	7 232 0	0 00	0 00	0 00
15 100 0	89 85	179 94	7 897 1	7 312 2	557 9	7 331 9	0 00	0 00	0 00

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Wellbore	BHL 330 FSL & 660 FEL Sec 20		
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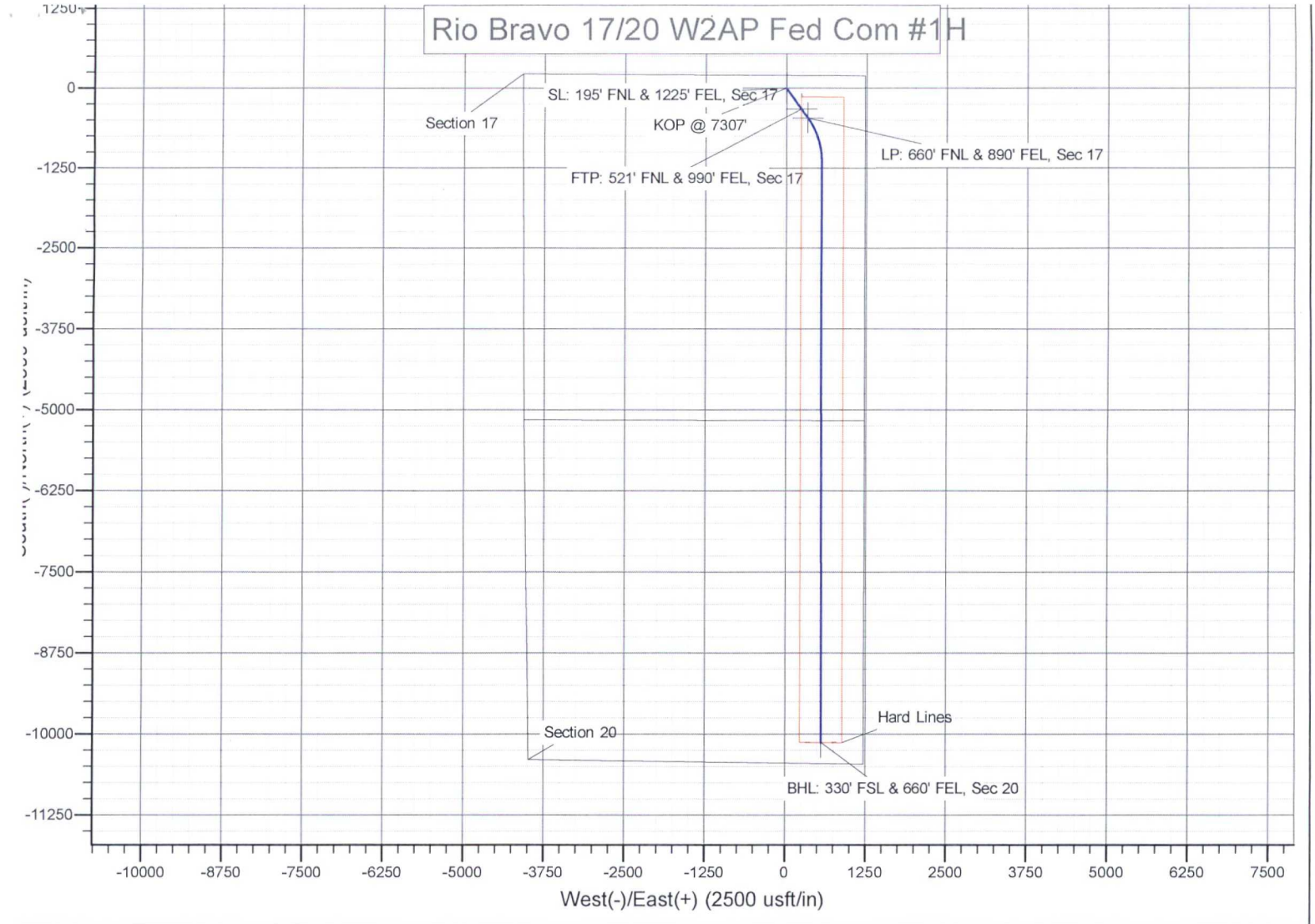
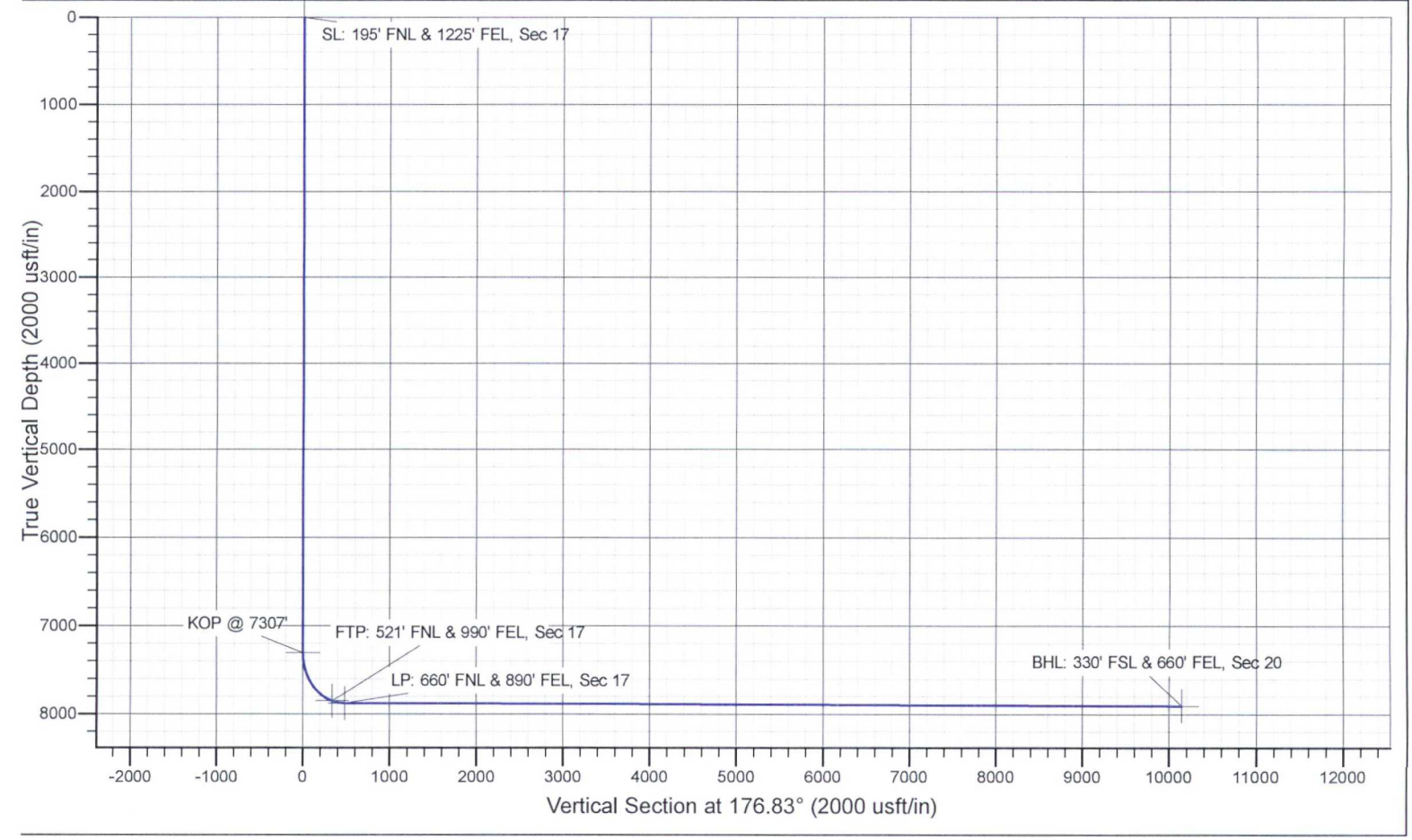
15 200 0	89 85	179 94	7 897 4	7 412 2	558 0	7 431 7	0 00	0 00	0 00
15 300 0	89 85	179 94	7 897 7	7 512 2	558 1	7 531 6	0 00	0 00	0 00
15 400 0	89 85	179 94	7 897 9	7 612 2	558 2	7 631 4	0 00	0 00	0 00
15 500 0	89 85	179 94	7 898 2	7 712 2	558 4	7 731 3	0 00	0 00	0 00
15 600 0	89 85	179 94	7 898 5	7 812 2	558 5	7 831 1	0 00	0 00	0 00
15 700 0	89 85	179 94	7 898 7	7 912 2	558 6	7 931 0	0 00	0 00	0 00
15 800 0	89 85	179 94	7 899 0	8 012 2	558 7	8 030 8	0 00	0 00	0 00
15 900 0	89 85	179 94	7 899 2	8 112 2	558 8	8 130 7	0 00	0 00	0 00
16 000 0	89 85	179 94	7 899 5	8 212 2	558 9	8 230 5	0 00	0 00	0 00
16 100 0	89 85	179 94	7 899 8	8 312 2	559 0	8 330 4	0 00	0 00	0 00
16 200 0	89 85	179 94	7 900 0	8 412 2	559 1	8 430 3	0 00	0 00	0 00
16 300 0	89 85	179 94	7 900 3	8 512 2	559 2	8 530 1	0 00	0 00	0 00
16 400 0	89 85	179 94	7 900 5	8 612 2	559 3	8 630 0	0 00	0 00	0 00
16 500 0	89 85	179 94	7 900 8	8 712 2	559 4	8 729 8	0 00	0 00	0 00
16 600 0	89 85	179 94	7 901 1	8 812 2	559 6	8 829 7	0 00	0 00	0 00
16 700 0	89 85	179 94	7 901 3	8 912 2	559 7	8 929 5	0 00	0 00	0 00
16 800 0	89 85	179 94	7 901 6	9 012 2	559 8	9 029 4	0 00	0 00	0 00
16 900 0	89 85	179 94	7 901 9	9 112 2	559 9	9 129 2	0 00	0 00	0 00
17 000 0	89 85	179 94	7 902 1	9 212 2	560 0	9 229 1	0 00	0 00	0 00
17 100 0	89 85	179 94	7 902 4	9 312 2	560 1	9 328 9	0 00	0 00	0 00
17 200 0	89 85	179 94	7 902 6	9 412 2	560 2	9 428 8	0 00	0 00	0 00
17 300 0	89 85	179 94	7 902 9	9 512 2	560 3	9 528 6	0 00	0 00	0 00
17 400 0	89 85	179 94	7 903 2	9 612 2	560 4	9 628 5	0 00	0 00	0 00
17 500 0	89 85	179 94	7 903 4	9 712 2	560 5	9 728 3	0 00	0 00	0 00
17 600 0	89 85	179 94	7 903 7	9 812 2	560 7	9 828 2	0 00	0 00	0 00
17 700 0	89 85	179 94	7 903 9	9 912 2	560 8	9 928 0	0 00	0 00	0 00
17 800 0	89 85	179 94	7 904 2	10 012 2	560 9	10 027 9	0 00	0 00	0 00
17 900 0	89 85	179 94	7 904 5	10 112 2	561 0	10 127 7	0 00	0 00	0 00
17 916 8	89 85	179 94	7 904 5	10 129 0	561 0	10 144 5	0 00	0 00	0 00
BHL 330 FSL & 660 FEL Sec 20									

Design Targets

Target Name hit/miss target Shape	Dip Angle ( )	Dip Dir ( )	TVD (usft)	+N/ S (usft)	+E/ W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL 195 FNL & 1225 FE plan hits target center Point	0 00	360 00	0 0	0 0	0 0	540 583 00	475 585 00	32 29 10 136 N	104 24 45 048 W
KOP @ 7307 plan hits target center Point	0 00	360 00	7 307 0	0 0	0 0	540 583 00	475 585 00	32 29 10 136 N	104 24 45 048 W
FTP 521 FNL & 990 FE plan hits target center Point	0 00	360 00	7 853 9	326 2	235 0	540 256 81	475 820 00	32 29 6 910 N	104 24 42 302 W
LP 660 FNL & 890 FEL plan hits target center Point	0 00	360 00	7 880 0	-465 0	335 0	540 118 00	475 920 00	32 29 5 537 N	104 24 41 133 W
BHL 330 FSL & 660 FE plan misses target center by 0 5usft at 17916 8usft MD (7904 5 TVD 10129 0 N 561 0 E) Point	0 00	360 00	7 905 0	10 129 0	561 0	530 454 00	476 146 00	32 27 29 904 N	104 24 38 413 W

Database	Hobbs	**Local Co ordinate Reference**	Site Rio Bravo 17/20 W2AP Fed Com #1H
Company	Mewbourne Oil Company	**TVD Reference**	WELL @ 3404 0usft (Original Well Elev)
Project	Eddy County New Mexico	**MD Reference**	WELL @ 3404 0usft (Original Well Elev)
Site	Rio Bravo 17/20 W2AP Fed Com #1H	**North Reference**	Grid
Well	Sec 17 T21S R25E	**Survey Calculation Method**	Minimum Curvature
Wellbore	BHL 330 FSL & 660 FEL Sec 20		
Design	Design #1		


Rio Bravo 17/20 W2AP Fed Com #1H
SL: 195' FNL & 1225' FEL, Sec 17
Section 17
KOP @ 7307'
LP: 660' FNL & 890' FEL, Sec 17
FTP: 521' FNL & 990' FEL, Sec 17
Hard Lines
Section 20
BHL: 330' FSL & 660' FEL, Sec 20
West(-)/East(+) (2500 usft/in)


SL: 195' FNL & 1225' FEL, Sec 17
KOP @ 7307'
FTP: 521' FNL & 990' FEL, Sec 17
LP: 660' FNL & 890' FEL, Sec 17
BHL: 330' FSL & 660' FEL, Sec 20
True Vertical Depth (2000 usft/in)
Vertical Section at 176.83° (2000 usft/in)