

Mewbourne Oil Company

Eddy County, New Mexico

Yardbirds 3 W2AP Fee #1H

Sec 3, T24S, R28E

SL 185' FNL & 400' FEL

BHL 330 FSL & 400' FEL

Plan Design #1

Standard Planning Report

09 February 2017

EXHIBIT

14

Planning Report

Database	Hobbs	Local Co-ordinate Reference	Site Yardbirds 3 W2AP Fee #1H
Company	Mewbourne Oil Company	TVD Reference	WELL @ 3045 0usft (Original Well Elev)
Project	Eddy County New Mexico	MD Reference	WELL @ 3045 0usft (Original Well Elev)
Site	Yardbirds 3 W2AP Fee #1H	North Reference	Gnd
Well	Sec 3 T24S R28E	Survey Calculation Method	Minimum Curvature
Wellbore	BHL 330 FSL & 400 FEL		
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	Yardbirds 3 W2AP Fee #1H		
Site Position		Northing	456 087 00 usft
From	Map	Easting	582 202 00 usft
Position Uncertainty	0 0 usft	Slot Radius	13-3/16
		Latitude	32 15 13 033 N
		Longitude	104 4 2 737 W
		Grid Convergence	0 14

Well	Sec 3 T24S R28E		
Well Position	+N/-S	0 0 usft	Northing
	+E/ W	0 0 usft	Easting
Position Uncertainty	0 0 usft	Wellhead Elevation	3 045 0 usft
		Latitude	32 15 13 033 N
		Longitude	104 4 2 737 W
		Ground Level	3 018 0 usft

Wellbore	BHL 330 FSL & 400 FEL		
Magnetics	Model Name	Sample Date	Declination
			(°)
	Dip Angle		(°)
	Field Strength		(nT)
	IGRF200510	12/31/2009	7 98
			60 18
			48 758

Design	Design #1		
Audit Notes			
Version	Phase	PROTOTYPE	Tie On Depth
			0 0
Vertical Section	Depth From (TVD)	+N/ S	+E/ W
	(usft)	(usft)	(usft)
	0 0	0 0	0 0
			Direction
			(°)
			180 91

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/ W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(/100usft)	(/100usft)	(/100usft)	(°)	
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 00	0 00	0 00	
9 988 0	0 00	0 00	9 988 0	0 0	0 0	0 00	0 00	0 00	0 00	KOP @ 9988
10 885 0	89 70	180 91	10 561 0	569 9	9 0	10 00	10 00	0 00	179 09	
15 051 7	89 70	180 91	10 583 0	-4 736 0	75 0	0 00	0 00	0 00	0 00	BHL 330 FSL & 400

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Well	Sec 3 T24S R28E	Survey Calculation Method	Minimum Curvature
Wellbore	BHL 330 FSL & 400 FEL		
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 185 FNL & 400 FEL									
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 3 T24S R28E	Survey Calculation Method	Minimum Curvature
Wellbore	BHL 330 FSL & 400 FEL		
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	
7 400 0	0 00	0 00	7 400 0	0 0	0 0	0 0	0 00	0 00	0 00	
7 500 0	0 00	0 00	7 500 0	0 0	0 0	0 0	0 00	0 00	0 00	
7 600 0	0 00	0 00	7 600 0	0 0	0 0	0 0	0 00	0 00	0 00	
7 700 0	0 00	0 00	7 700 0	0 0	0 0	0 0	0 00	0 00	0 00	
7 800 0	0 00	0 00	7 800 0	0 0	0 0	0 0	0 00	0 00	0 00	
7 900 0	0 00	0 00	7 900 0	0 0	0 0	0 0	0 00	0 00	0 00	
8 000 0	0 00	0 00	8 000 0	0 0	0 0	0 0	0 00	0 00	0 00	
8 100 0	0 00	0 00	8 100 0	0 0	0 0	0 0	0 00	0 00	0 00	
8 200 0	0 00	0 00	8 200 0	0 0	0 0	0 0	0 00	0 00	0 00	
8 300 0	0 00	0 00	8 300 0	0 0	0 0	0 0	0 00	0 00	0 00	
8 400 0	0 00	0 00	8 400 0	0 0	0 0	0 0	0 00	0 00	0 00	
8 500 0	0 00	0 00	8 500 0	0 0	0 0	0 0	0 00	0 00	0 00	
8 600 0	0 00	0 00	8 600 0	0 0	0 0	0 0	0 00	0 00	0 00	
8 700 0	0 00	0 00	8 700 0	0 0	0 0	0 0	0 00	0 00	0 00	
8 800 0	0 00	0 00	8 800 0	0 0	0 0	0 0	0 00	0 00	0 00	
8 900 0	0 00	0 00	8 900 0	0 0	0 0	0 0	0 00	0 00	0 00	
9 000 0	0 00	0 00	9 000 0	0 0	0 0	0 0	0 00	0 00	0 00	
9 100 0	0 00	0 00	9 100 0	0 0	0 0	0 0	0 00	0 00	0 00	
9 200 0	0 00	0 00	9 200 0	0 0	0 0	0 0	0 00	0 00	0 00	
9 300 0	0 00	0 00	9 300 0	0 0	0 0	0 0	0 00	0 00	0 00	
9 400 0	0 00	0 00	9 400 0	0 0	0 0	0 0	0 00	0 00	0 00	
9 500 0	0 00	0 00	9 500 0	0 0	0 0	0 0	0 00	0 00	0 00	
9 600 0	0 00	0 00	9 600 0	0 0	0 0	0 0	0 00	0 00	0 00	
9 700 0	0 00	0 00	9 700 0	0 0	0 0	0 0	0 00	0 00	0 00	
9 800 0	0 00	0 00	9 800 0	0 0	0 0	0 0	0 00	0 00	0 00	
9 900 0	0 00	0 00	9 900 0	0 0	0 0	0 0	0 00	0 00	0 00	
9 988 0	0 00	0 00	9 988 0	0 0	0 0	0 0	0 00	0 00	0 00	
KOP @ 9988										
10 000 0	1 20	180 91	10 000 0	0 1	0 0	0 1	10 00	10 00	0 00	
10 100 0	11 20	180 91	10 099 3	10 9	0 2	10 9	10 00	10 00	0 00	
10 200 0	21 20	180 91	10 195 2	38 8	0 6	38 8	10 00	10 00	0 00	
10 300 0	31 20	180 91	10 284 8	82 8	1 3	82 8	10 00	10 00	0 00	

Planning Report

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Site	Yardbirds 3 W2AP Fee #1H	North Reference	Gnd
Well	Sec 3 T24S R28E	Survey Calculation Method	Minimum Curvature
Wellbore	BHL 330 FSL & 400 FEL		
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)	
10 400 0	41 20	180 91	10 365 4	141 8	2 2	141 8	10 00	10 00	0 00	
10 404 8	41 68	180 91	10 369 0	145 0	2 3	145 0	10 00	10 00	0 00	
FTP 330 FNL & 400 FEL										
10 500 0	51 20	180 91	10 434 5	213 9	3 4	213 9	10 00	10 00	0 00	
10 600 0	61 19	180 91	10 490 1	296 9	-4 7	296 9	10 00	10 00	0 00	
10 700 0	71 19	180 91	10 530 4	388 2	6 1	388 3	10 00	10 00	0 00	
10 800 0	81 19	180 91	10 554 3	-485 2	7 7	485 3	10 00	10 00	0 00	
10 885 1	89 70	180 91	10 561 0	569 9	9 0	570 0	10 00	10 00	0 00	
LP 755 FNL & 400 FEL										
10 900 0	89 70	180 91	10 561 1	584 8	9 3	584 9	0 00	0 00	0 00	
11 000 0	89 70	180 91	10 561 6	684 8	10 8	684 9	0 00	0 00	0 00	
11 100 0	89 70	180 91	10 562 1	784 8	12 4	784 9	0 00	0 00	0 00	
11 200 0	89 70	180 91	10 562 7	884 8	14 0	884 9	0 00	0 00	0 00	
11 300 0	89 70	180 91	10 563 2	984 8	15 6	984 9	0 00	0 00	0 00	
11 400 0	89 70	180 91	10 563 7	1 084 8	17 2	1 084 9	0 00	0 00	0 00	
11 500 0	89 70	180 91	10 564 2	1 184 8	18 8	1 184 9	0 00	0 00	0 00	
11 600 0	89 70	180 91	10 564 8	1 284 7	20 3	1 284 9	0 00	0 00	0 00	
11 700 0	89 70	180 91	10 565 3	1 384 7	21 9	1 384 9	0 00	0 00	0 00	
11 800 0	89 70	180 91	10 565 8	1 484 7	23 5	1 484 9	0 00	0 00	0 00	
11 900 0	89 70	180 91	10 566 4	1 584 7	25 1	1 584 9	0 00	0 00	0 00	
12 000 0	89 70	180 91	10 566 9	1 684 7	26 7	1 684 9	0 00	0 00	0 00	
12 100 0	89 70	180 91	10 567 4	1 784 7	28 3	1 784 9	0 00	0 00	0 00	
12 200 0	89 70	180 91	10 567 9	1 884 7	29 8	1 884 9	0 00	0 00	0 00	
12 300 0	89 70	180 91	10 568 5	1 984 6	31 4	1 984 9	0 00	0 00	0 00	
12 400 0	89 70	180 91	10 569 0	2 084 6	33 0	2 084 9	0 00	0 00	0 00	
12 500 0	89 70	180 91	10 569 5	2 184 6	34 6	2 184 9	0 00	0 00	0 00	
12 600 0	89 70	180 91	10 570 1	2 284 6	36 2	2 284 9	0 00	0 00	0 00	
12 700 0	89 70	180 91	10 570 6	2 384 6	37 8	2 384 9	0 00	0 00	0 00	
12 800 0	89 70	180 91	10 571 1	2 484 6	39 3	2 484 9	0 00	0 00	0 00	
12 900 0	89 70	180 91	10 571 6	2 584 6	-40 9	2 584 9	0 00	0 00	0 00	
13 000 0	89 70	180 91	10 572 2	2 684 5	-42 5	2 684 9	0 00	0 00	0 00	
13 100 0	89 70	180 91	10 572 7	2 784 5	-44 1	2 784 9	0 00	0 00	0 00	
13 200 0	89 70	180 91	10 573 2	2 884 5	-45 7	2 884 9	0 00	0 00	0 00	
13 300 0	89 70	180 91	10 573 8	2 984 5	-47 3	2 984 9	0 00	0 00	0 00	
13 400 0	89 70	180 91	10 574 3	3 084 5	-48 8	3 084 9	0 00	0 00	0 00	
13 500 0	89 70	180 91	10 574 8	3 184 5	50 4	3 184 9	0 00	0 00	0 00	
13 600 0	89 70	180 91	10 575 3	3 284 5	52 0	3 284 9	0 00	0 00	0 00	
13 700 0	89 70	180 91	10 575 9	3 384 4	53 6	3 384 9	0 00	0 00	0 00	
13 800 0	89 70	180 91	10 576 4	3 484 4	55 2	3 484 9	0 00	0 00	0 00	
13 900 0	89 70	180 91	10 576 9	3 584 4	56 8	3 584 9	0 00	0 00	0 00	
14 000 0	89 70	180 91	10 577 4	3 684 4	58 3	3 684 9	0 00	0 00	0 00	
14 100 0	89 70	180 91	10 578 0	3 784 4	59 9	3 784 9	0 00	0 00	0 00	
14 200 0	89 70	180 91	10 578 5	3 884 4	-61 5	3 884 9	0 00	0 00	0 00	
14 300 0	89 70	180 91	10 579 0	3 984 4	-63 1	3 984 9	0 00	0 00	0 00	
14 400 0	89 70	180 91	10 579 6	-4 084 4	-64 7	4 084 9	0 00	0 00	0 00	
14 500 0	89 70	180 91	10 580 1	-4 184 3	-66 3	4 184 9	0 00	0 00	0 00	
14 600 0	89 70	180 91	10 580 6	-4 284 3	-67 8	4 284 9	0 00	0 00	0 00	
14 700 0	89 70	180 91	10 581 1	-4 384 3	-69 4	4 384 9	0 00	0 00	0 00	
14 800 0	89 70	180 91	10 581 7	-4 484 3	71 0	4 484 9	0 00	0 00	0 00	
14 900 0	89 70	180 91	10 582 2	-4 584 3	72 6	4 584 9	0 00	0 00	0 00	
15 000 0	89 70	180 91	10 582 7	-4 684 3	74 2	4 684 9	0 00	0 00	0 00	
15 051 7	89 70	180 91	10 583 0	-4 736 0	75 0	4 736 6	0 00	0 00	0 00	
BHL 330 FSL & 400 FEL										

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Wellbore	BHL 330 FSL & 400 FEL		
Design	Design #1		

Design Targets										
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/ W	Northing	Easting	Latitude	Longitude
Shape		(°)	()	(usft)	(usft)	(usft)	(usft)	(usft)		
SL 185 FNL & 400 FEL	plan hits target center	0 00	0 00	0 0	0 0	0 0	456 087 00	582 202 00	32 15 13 033 N	104 4 2 737 W
KOP @ 9988	plan hits target center	0 00	0 00	9 988 0	0 0	0 0	456 087 00	582 202 00	32 15 13 033 N	104 4 2 737 W
FTP 330 FNL & 400 FE	plan hits target center	0 00	0 00	10 369 0	145 0	2 3	455 942 00	582 199 71	32 15 11 598 N	104 4 2 768 W
LP 755 FNL & 400 FEL	plan hits target center	0 00	0 00	10 561 0	569 9	9 0	455 517 10	582 193 00	32 15 7 393 N	104 4 2 858 W
BHL 330 FSL & 400 FE	plan hits target center	0 00	0 00	10 583 0	-4 736 0	75 0	451 351 00	582 127 00	32 14 26 166 N	104 4 3 747 W
	Point									

