

Mewbourne Oil Co

Lea County, NM

Sec 17-19S-33E

Spyglass 17 Federal Com #2H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

08 April, 2011

Oil Conservation Division
Case No. 12
Exhibit No.



DDC

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Spyglass 17 Federal Com #2H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3670.0usft (Patterson UTI #45/47)
Project:	Lea County, NM	MD Reference:	WELL @ 3670.0usft (Patterson UTI #45/47)
Site:	Sec 17-19S-33E	North Reference:	Grid
Well:	Spyglass 17 Federal Com #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, NM		
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	Sec 17-19S-33E		
Site Position:		Northing:	606,452.97 usft
From:	Map	Easting:	697,295.52 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 39' 56.167 N
		Longitude:	103° 41' 31.979 W
		Grid Convergence:	0.35 °

Well	Spyglass 17 Federal Com #2H		
Well Position	+N/-S	0.0 usft	Northing: 606,452.97 usft
	+E/-W	0.0 usft	Easting: 697,295.52 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 39' 56.167 N
			Longitude: 103° 41' 31.979 W
			Ground Level: 3,652.0 usft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/8/2011	7.70	60.58	48,887

Design	Design #1		
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Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	89.61

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	
9,307.2	0.00	0.00	9,307.2	0.0	0.0	0.00	0.00	0.00	0.00	
10,195.9	88.87	89.61	9,880.0	3.8	561.7	10.00	10.00	10.08	89.61	
14,258.3	88.87	89.61	9,960.0	31.3	4,623.2	0.00	0.00	0.00	0.00	PBHL Spyglass 17

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Site:	Sec 17-19S-33E	North Reference:	Grid
Well:	Spyglass 17 Federal Com #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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
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
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

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Well:	Spyglass 17 Federal Com #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
5,400.0	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
Build 10°/100' @ 9307' MD									
9,307.2	0.00	0.00	9,307.2	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	9.28	89.61	9,399.6	0.1	7.5	7.5	10.00	10.00	0.00
9,500.0	19.28	89.61	9,496.4	0.2	32.1	32.1	10.00	10.00	0.00
9,600.0	29.28	89.61	9,587.4	0.5	73.2	73.2	10.00	10.00	0.00
9,700.0	39.28	89.61	9,669.9	0.9	129.5	129.5	10.00	10.00	0.00
9,800.0	49.28	89.61	9,741.4	1.3	199.2	199.2	10.00	10.00	0.00
9,900.0	59.28	89.61	9,799.8	1.9	280.3	280.3	10.00	10.00	0.00
10,000.0	69.28	89.61	9,843.1	2.5	370.2	370.2	10.00	10.00	0.00
10,100.0	79.28	89.61	9,870.2	3.2	466.4	466.4	10.00	10.00	0.00
EOB @ 10196' MD / 88.87° Inc / 89.61° Azm / 9880' TVD									
10,195.9	88.87	89.61	9,880.0	3.8	561.7	561.7	10.00	10.00	0.00
10,200.0	88.87	89.61	9,880.1	3.8	565.7	565.8	0.00	0.00	0.00

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Wellbore:	Wellbore #1		
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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)
10,300.0	88.87	89.61	9,882.1	4.5	665.7	665.7	0.00	0.00	0.00
10,400.0	88.87	89.61	9,884.1	5.2	765.7	765.7	0.00	0.00	0.00
10,500.0	88.87	89.61	9,886.0	5.9	865.7	865.7	0.00	0.00	0.00
10,600.0	88.87	89.61	9,888.0	6.5	965.7	965.7	0.00	0.00	0.00
10,700.0	88.87	89.61	9,890.0	7.2	1,065.6	1,065.7	0.00	0.00	0.00
10,800.0	88.87	89.61	9,891.9	7.9	1,165.6	1,165.6	0.00	0.00	0.00
10,900.0	88.87	89.61	9,893.9	8.6	1,265.6	1,265.6	0.00	0.00	0.00
11,000.0	88.87	89.61	9,895.9	9.2	1,365.6	1,365.6	0.00	0.00	0.00
11,100.0	88.87	89.61	9,897.8	9.9	1,465.5	1,465.6	0.00	0.00	0.00
11,200.0	88.87	89.61	9,899.8	10.6	1,565.5	1,565.6	0.00	0.00	0.00
11,300.0	88.87	89.61	9,901.8	11.3	1,665.5	1,665.5	0.00	0.00	0.00
11,400.0	88.87	89.61	9,903.7	12.0	1,765.5	1,765.5	0.00	0.00	0.00
11,500.0	88.87	89.61	9,905.7	12.6	1,865.5	1,865.5	0.00	0.00	0.00
11,600.0	88.87	89.61	9,907.7	13.3	1,965.4	1,965.5	0.00	0.00	0.00
11,700.0	88.87	89.61	9,909.6	14.0	2,065.4	2,065.5	0.00	0.00	0.00
11,800.0	88.87	89.61	9,911.6	14.7	2,165.4	2,165.4	0.00	0.00	0.00
11,900.0	88.87	89.61	9,913.6	15.3	2,265.4	2,265.4	0.00	0.00	0.00
12,000.0	88.87	89.61	9,915.6	16.0	2,365.4	2,365.4	0.00	0.00	0.00
12,100.0	88.87	89.61	9,917.5	16.7	2,465.3	2,465.4	0.00	0.00	0.00
12,200.0	88.87	89.61	9,919.5	17.4	2,565.3	2,565.4	0.00	0.00	0.00
12,300.0	88.87	89.61	9,921.5	18.0	2,665.3	2,665.4	0.00	0.00	0.00
12,400.0	88.87	89.61	9,923.4	18.7	2,765.3	2,765.3	0.00	0.00	0.00
12,500.0	88.87	89.61	9,925.4	19.4	2,865.2	2,865.3	0.00	0.00	0.00
12,600.0	88.87	89.61	9,927.4	20.1	2,965.2	2,965.3	0.00	0.00	0.00
12,700.0	88.87	89.61	9,929.3	20.8	3,065.2	3,065.3	0.00	0.00	0.00
12,800.0	88.87	89.61	9,931.3	21.4	3,165.2	3,165.3	0.00	0.00	0.00
12,900.0	88.87	89.61	9,933.3	22.1	3,265.2	3,265.2	0.00	0.00	0.00
13,000.0	88.87	89.61	9,935.2	22.8	3,365.1	3,365.2	0.00	0.00	0.00
13,100.0	88.87	89.61	9,937.2	23.5	3,465.1	3,465.2	0.00	0.00	0.00
13,200.0	88.87	89.61	9,939.2	24.1	3,565.1	3,565.2	0.00	0.00	0.00
13,300.0	88.87	89.61	9,941.1	24.8	3,665.1	3,665.2	0.00	0.00	0.00
13,400.0	88.87	89.61	9,943.1	25.5	3,765.1	3,765.1	0.00	0.00	0.00
13,500.0	88.87	89.61	9,945.1	26.2	3,865.0	3,865.1	0.00	0.00	0.00
13,600.0	88.87	89.61	9,947.0	26.8	3,965.0	3,965.1	0.00	0.00	0.00
13,700.0	88.87	89.61	9,949.0	27.5	4,065.0	4,065.1	0.00	0.00	0.00
13,800.0	88.87	89.61	9,951.0	28.2	4,165.0	4,165.1	0.00	0.00	0.00
13,900.0	88.87	89.61	9,952.9	28.9	4,264.9	4,265.0	0.00	0.00	0.00
14,000.0	88.87	89.61	9,954.9	29.6	4,364.9	4,365.0	0.00	0.00	0.00
14,100.0	88.87	89.61	9,956.9	30.2	4,464.9	4,465.0	0.00	0.00	0.00
14,200.0	88.87	89.61	9,958.9	30.9	4,564.9	4,565.0	0.00	0.00	0.00
TD @ 14258' MD / 9960' TVD									
14,258.3	88.87	89.61	9,960.0	31.3	4,623.2	4,623.3	0.00	0.00	0.00

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
PBHL Spyglass 17 Fe - plan hits target center - Point	0.00	0.00	9,960.0	31.3	4,623.2	606,484.28	701,918.69	32° 39' 56.198 N	103° 40' 37.897 W

DDC
Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Spyglass 17 Federal Com #2H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3670.0usft (Patterson UTI #45/47)
Project:	Lea County, NM	MD Reference:	WELL @ 3670.0usft (Patterson UTI #45/47)
Site:	Sec 17-19S-33E	North Reference:	Grid
Well:	Spyglass 17 Federal Com #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,307.2	9,307.2	0.0	0.0	Build 10°/100' @ 9307' MD
10,195.9	9,880.0	3.8	561.7	EOB @ 10196' MD / 88.87° Inc / 89.61° Azm / 9880' TVD
14,258.3	9,960.0	31.3	4,623.2	TD @ 14258' MD / 9960' TVD