

Mewbourne Oil Co

Eddy County, New Mexico

Sec 8, T18S, R27E

Peterson 7 IL Federal Com #1H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

10 January, 2013

Attachment

B



DDC
Well Planning Report



Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 8, T18S, R27E
Well: Peterson 7 IL Federal Com #1H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Peterson 7 IL Federal Com #1H
TVD Reference: WELL @ 3400.0usft (Patterson #41)
MD Reference: WELL @ 3400.0usft (Patterson #41)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Sec 8, T18S, R27E		
Site Position:		Northing:	640,151.35 usft
From:	Map	Easting:	507,742.98 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 45' 35.520 N
		Longitude:	104° 18' 29.324 W
		Grid Convergence:	0.01 °

Well	Peterson 7 IL Federal Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 640,151.35 usft
	+E/-W	0.0 usft	Easting: 507,742.98 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 45' 35.520 N
			Longitude: 104° 18' 29.324 W
			Ground Level: 3,381.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	1/10/2013	(°) 7.77	(°) 60.52	(nT) 48,700

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	270.94

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(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	
2,267.6	0.00	0.00	2,267.6	0.0	0.0	0.00	0.00	0.00	0.00	
3,034.3	91.24	270.94	2,749.0	8.0	-491.9	11.90	11.90	-11.62	270.94	
7,690.2	91.24	270.94	2,648.0	84.2	-5,146.0	0.00	0.00	0.00	0.00	PBHL Peterson 7 IL

DDC Well Planning Report



Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 8, T18S, R27E
Well: Peterson 7 IL Federal Com #1H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Peterson 7 IL Federal Com #1H
TVD Reference: WELL @ 3400.0usft (Patterson #41)
MD Reference: WELL @ 3400.0usft (Patterson #41)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
Build 11.9° / 100'									
2,267.6	0.00	0.00	2,267.6	0.0	0.0	0.0	0.00	0.00	0.00
2,275.0	0.88	270.94	2,275.0	0.0	-0.1	0.1	11.90	11.90	0.00
2,300.0	3.86	270.94	2,300.0	0.0	-1.1	1.1	11.90	11.90	0.00
2,325.0	6.83	270.94	2,324.9	0.1	-3.4	3.4	11.90	11.90	0.00
2,350.0	9.81	270.94	2,349.6	0.1	-7.0	7.0	11.90	11.90	0.00
2,375.0	12.78	270.94	2,374.1	0.2	-11.9	11.9	11.90	11.90	0.00
2,400.0	15.76	270.94	2,398.3	0.3	-18.1	18.1	11.90	11.90	0.00
2,425.0	18.73	270.94	2,422.2	0.4	-25.5	25.5	11.90	11.90	0.00
2,450.0	21.71	270.94	2,445.7	0.6	-34.1	34.1	11.90	11.90	0.00
2,475.0	24.68	270.94	2,468.6	0.7	-44.0	44.0	11.90	11.90	0.00
2,500.0	27.66	270.94	2,491.1	0.9	-55.0	55.0	11.90	11.90	0.00
2,525.0	30.63	270.94	2,512.9	1.1	-67.2	67.2	11.90	11.90	0.00
2,550.0	33.61	270.94	2,534.1	1.3	-80.5	80.5	11.90	11.90	0.00
2,575.0	36.58	270.94	2,554.5	1.6	-94.8	94.8	11.90	11.90	0.00
2,600.0	39.56	270.94	2,574.2	1.8	-110.2	110.3	11.90	11.90	0.00
2,625.0	42.53	270.94	2,593.1	2.1	-126.7	126.7	11.90	11.90	0.00
2,650.0	45.51	270.94	2,611.0	2.4	-144.0	144.0	11.90	11.90	0.00
2,675.0	48.48	270.94	2,628.1	2.7	-162.3	162.3	11.90	11.90	0.00
2,700.0	51.46	270.94	2,644.2	3.0	-181.4	181.5	11.90	11.90	0.00
2,725.0	54.43	270.94	2,659.2	3.3	-201.4	201.4	11.90	11.90	0.00
2,750.0	57.41	270.94	2,673.2	3.6	-222.1	222.1	11.90	11.90	0.00
2,775.0	60.38	270.94	2,686.2	4.0	-243.5	243.5	11.90	11.90	0.00
2,800.0	63.36	270.94	2,697.9	4.3	-265.5	265.6	11.90	11.90	0.00
2,825.0	66.33	270.94	2,708.6	4.7	-288.1	288.2	11.90	11.90	0.00
2,850.0	69.31	270.94	2,718.0	5.1	-311.3	311.3	11.90	11.90	0.00
2,875.0	72.28	270.94	2,726.2	5.5	-334.9	334.9	11.90	11.90	0.00
2,900.0	75.26	270.94	2,733.2	5.9	-358.9	358.9	11.90	11.90	0.00
2,925.0	78.23	270.94	2,739.0	6.3	-383.2	383.3	11.90	11.90	0.00
2,950.0	81.21	270.94	2,743.4	6.7	-407.8	407.9	11.90	11.90	0.00
2,975.0	84.18	270.94	2,746.6	7.1	-432.6	432.7	11.90	11.90	0.00
3,000.0	87.16	270.94	2,748.5	7.5	-457.5	457.6	11.90	11.90	0.00
3,025.0	90.13	270.94	2,749.1	7.9	-482.5	482.6	11.90	11.90	0.00
EOB @ 91.24° Inc / 270.94° Azm / 2749' TVD									
3,034.3	91.24	270.94	2,749.0	8.0	-491.9	491.9	11.90	11.90	0.00
3,100.0	91.24	270.94	2,747.5	9.1	-557.5	557.6	0.00	0.00	0.00
3,200.0	91.24	270.94	2,745.4	10.8	-657.4	657.5	0.00	0.00	0.00
3,300.0	91.24	270.94	2,743.2	12.4	-757.4	757.5	0.00	0.00	0.00
3,400.0	91.24	270.94	2,741.0	14.0	-857.4	857.5	0.00	0.00	0.00
3,500.0	91.24	270.94	2,738.9	15.7	-957.3	957.5	0.00	0.00	0.00
3,600.0	91.24	270.94	2,736.7	17.3	-1,057.3	1,057.4	0.00	0.00	0.00
3,700.0	91.24	270.94	2,734.5	18.9	-1,157.3	1,157.4	0.00	0.00	0.00
3,800.0	91.24	270.94	2,732.4	20.6	-1,257.2	1,257.4	0.00	0.00	0.00
3,900.0	91.24	270.94	2,730.2	22.2	-1,357.2	1,357.4	0.00	0.00	0.00
4,000.0	91.24	270.94	2,728.0	23.8	-1,457.2	1,457.3	0.00	0.00	0.00
4,100.0	91.24	270.94	2,725.9	25.5	-1,557.1	1,557.3	0.00	0.00	0.00
4,200.0	91.24	270.94	2,723.7	27.1	-1,657.1	1,657.3	0.00	0.00	0.00
4,300.0	91.24	270.94	2,721.5	28.7	-1,757.0	1,757.3	0.00	0.00	0.00
4,400.0	91.24	270.94	2,719.3	30.4	-1,857.0	1,857.3	0.00	0.00	0.00
4,500.0	91.24	270.94	2,717.2	32.0	-1,957.0	1,957.2	0.00	0.00	0.00
4,600.0	91.24	270.94	2,715.0	33.6	-2,056.9	2,057.2	0.00	0.00	0.00
4,700.0	91.24	270.94	2,712.8	35.3	-2,156.9	2,157.2	0.00	0.00	0.00
4,800.0	91.24	270.94	2,710.7	36.9	-2,256.9	2,257.2	0.00	0.00	0.00
4,900.0	91.24	270.94	2,708.5	38.5	-2,356.8	2,357.1	0.00	0.00	0.00

DDC Well Planning Report



Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 8, T18S, R27E
Well: Peterson 7 IL Federal Com #1H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Peterson 7 IL Federal Com #1H
TVD Reference: WELL @ 3400.0usft (Patterson #41)
MD Reference: WELL @ 3400.0usft (Patterson #41)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
5,000.0	91.24	270.94	2,706.3	40.2	-2,456.8	2,457.1	0.00	0.00	0.00
5,100.0	91.24	270.94	2,704.2	41.8	-2,556.7	2,557.1	0.00	0.00	0.00
5,200.0	91.24	270.94	2,702.0	43.5	-2,656.7	2,657.1	0.00	0.00	0.00
5,300.0	91.24	270.94	2,699.8	45.1	-2,756.7	2,757.0	0.00	0.00	0.00
5,400.0	91.24	270.94	2,697.7	46.7	-2,856.6	2,857.0	0.00	0.00	0.00
5,500.0	91.24	270.94	2,695.5	48.4	-2,956.6	2,957.0	0.00	0.00	0.00
5,600.0	91.24	270.94	2,693.3	50.0	-3,056.6	3,057.0	0.00	0.00	0.00
5,700.0	91.24	270.94	2,691.2	51.6	-3,156.5	3,156.9	0.00	0.00	0.00
5,800.0	91.24	270.94	2,689.0	53.3	-3,256.5	3,256.9	0.00	0.00	0.00
5,900.0	91.24	270.94	2,686.8	54.9	-3,356.5	3,356.9	0.00	0.00	0.00
6,000.0	91.24	270.94	2,684.7	56.5	-3,456.4	3,456.9	0.00	0.00	0.00
6,100.0	91.24	270.94	2,682.5	58.2	-3,556.4	3,556.9	0.00	0.00	0.00
6,200.0	91.24	270.94	2,680.3	59.8	-3,656.3	3,656.8	0.00	0.00	0.00
6,300.0	91.24	270.94	2,678.1	61.4	-3,756.3	3,756.8	0.00	0.00	0.00
6,400.0	91.24	270.94	2,676.0	63.1	-3,856.3	3,856.8	0.00	0.00	0.00
6,500.0	91.24	270.94	2,673.8	64.7	-3,956.2	3,956.8	0.00	0.00	0.00
6,600.0	91.24	270.94	2,671.6	66.3	-4,056.2	4,056.7	0.00	0.00	0.00
6,700.0	91.24	270.94	2,669.5	68.0	-4,156.2	4,156.7	0.00	0.00	0.00
6,800.0	91.24	270.94	2,667.3	69.6	-4,256.1	4,256.7	0.00	0.00	0.00
6,900.0	91.24	270.94	2,665.1	71.3	-4,356.1	4,356.7	0.00	0.00	0.00
7,000.0	91.24	270.94	2,663.0	72.9	-4,456.0	4,456.6	0.00	0.00	0.00
7,100.0	91.24	270.94	2,660.8	74.5	-4,556.0	4,556.6	0.00	0.00	0.00
7,200.0	91.24	270.94	2,658.6	76.2	-4,656.0	4,656.6	0.00	0.00	0.00
7,300.0	91.24	270.94	2,656.5	77.8	-4,755.9	4,756.6	0.00	0.00	0.00
7,400.0	91.24	270.94	2,654.3	79.4	-4,855.9	4,856.5	0.00	0.00	0.00
7,500.0	91.24	270.94	2,652.1	81.1	-4,955.9	4,956.5	0.00	0.00	0.00
7,600.0	91.24	270.94	2,650.0	82.7	-5,055.8	5,056.5	0.00	0.00	0.00
TD @ 7690' MD / 2648' TVD									
7,690.2	91.24	270.94	2,648.0	84.2	-5,146.0	5,146.7	0.00	0.00	0.00

Design Targets

Target Name

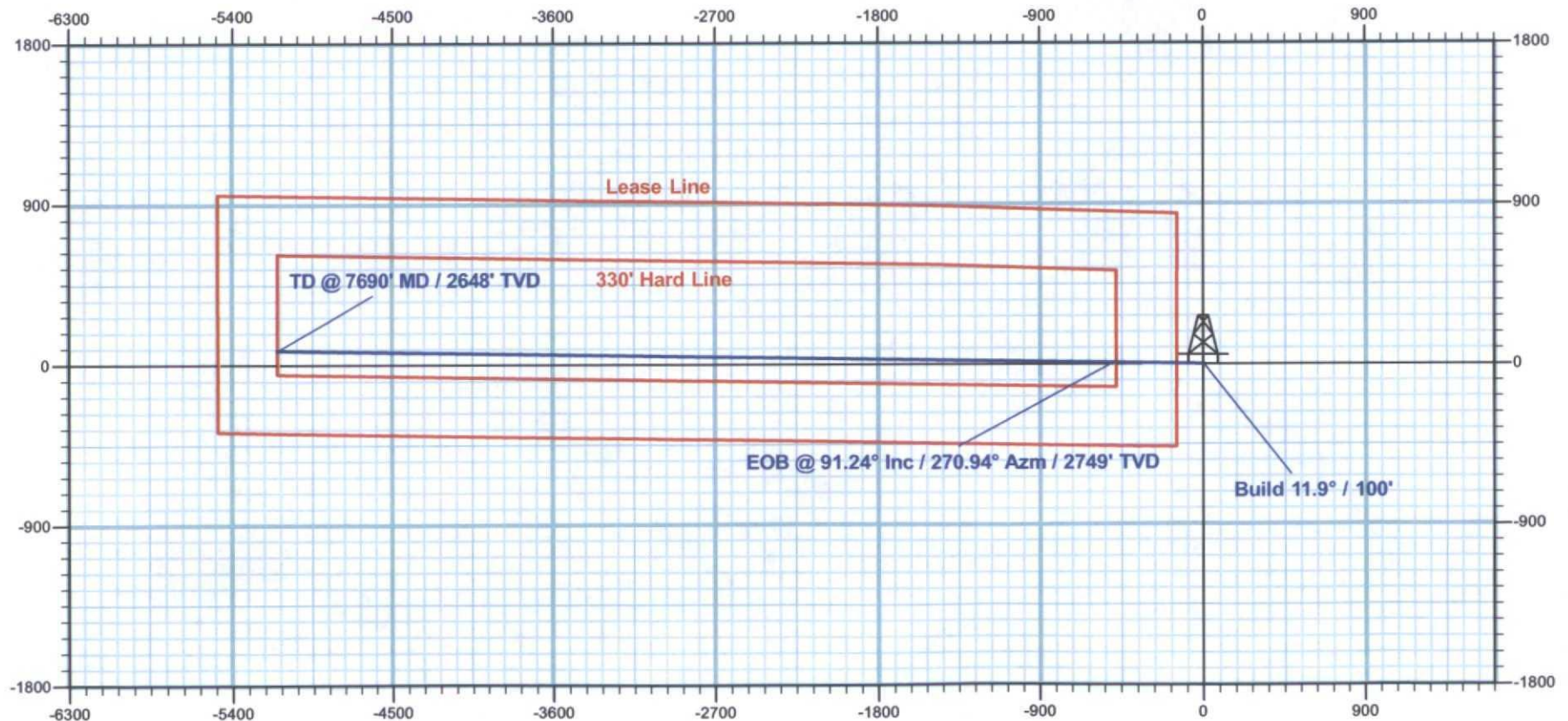
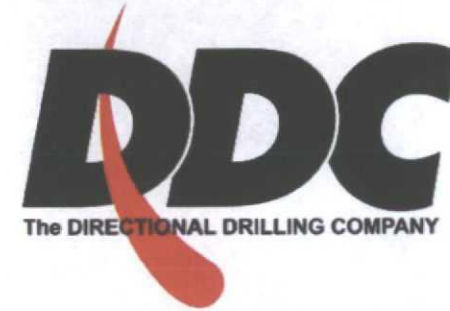
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
PBHL Peterson 7 IL F	0.00	0.00	2,648.0	84.2	-5,146.0	640,235.53	502,596.95	32° 45' 36.361 N	104° 19' 29.588 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,267.6	2,267.6	0.0	0.0	Build 11.9° / 100'
3,034.3	2,749.0	8.0	-491.9	EOB @ 91.24° Inc / 270.94° Azm / 2749' TVD
7,690.2	2,648.0	84.2	-5,146.0	TD @ 7690' MD / 2648' TVD

Mewbourne Oil Company

Eddy County, New Mexico
Peterson 7 IL Federal Com #1H
Quote 130028
Design #1



Mewbourne Oil Company

Eddy County, New Mexico
Peterson 7 IL Federal Com #1H
Quote 130028
Design #1

