

Mewbourne Oil Co

Eddy County, New Mexico

Sec 35, T23S, R28E

Layla 35 B2NC #2H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

09 May, 2014

SL: 185 FSL & 1670 FWL

LP: 660 FSL & 1703 FWL

BHL: 330 FNL & 1980 FW

Oil Conservation Division

Case No.

Exhibit No.

~~7~~ 9-15110



DDC
Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Layla 35 B2NC #2H
Company:	Mewbourne Oil Co	TVD Reference:	Well @ 3037.0usft (Patterson #444)
Project:	Eddy County, New Mexico	MD Reference:	Well @ 3037.0usft (Patterson #444)
Site:	Sec 35, T23S, R28E	North Reference:	Grid
Well:	Layla 35 B2NC #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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	Sec 35, T23S, R28E				
Site Position:		Northing:	456,438.18 usft	Latitude:	32° 15' 16.415 N
From:	Map	Easting:	585,924.08 usft	Longitude:	104° 3' 19.382 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	Layla 35 B2NC #2H					
Well Position	+N/-S	27.3 usft	Northing:	456,465.50 usft	Latitude:	32° 15' 16.727 N
	+E/-W	-1,649.5 usft	Easting:	584,274.60 usft	Longitude:	104° 3' 38.590 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,017.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/9/2014	7.46	60.06	48,295

Design	Design #1			
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	3.82

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	
7,839.5	0.00	0.00	7,839.5	0.0	0.0	0.00	0.00	0.00	0.00	
8,588.4	89.87	3.82	8,317.0	475.3	31.7	12.00	12.00	0.51	3.82	
12,926.3	89.87	3.82	8,327.0	4,803.6	320.5	0.00	0.00	0.00	0.00	PBHL Layla 35 B2NC

DDC
Well Planning Report



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Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 35, T23S, R28E
Well: Layla 35 B2NC #2H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Layla 35 B2NC #2H
TVD Reference: Well @ 3037.0usft (Patterson #444)
MD Reference: Well @ 3037.0usft (Patterson #444)
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)
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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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
KOP / Build 12° / 100'									
7,839.5	0.00	0.00	7,839.5	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	7.26	3.82	7,899.8	3.8	0.3	3.8	12.00	12.00	0.00
8,000.0	19.26	3.82	7,997.0	26.7	1.8	26.7	12.00	12.00	0.00
8,100.0	31.26	3.82	8,087.3	69.2	4.6	69.3	12.00	12.00	0.00
8,200.0	43.26	3.82	8,166.7	129.5	8.6	129.8	12.00	12.00	0.00
8,300.0	55.26	3.82	8,231.9	204.9	13.7	205.4	12.00	12.00	0.00
8,400.0	67.26	3.82	8,279.9	292.3	19.5	292.9	12.00	12.00	0.00
8,500.0	79.26	3.82	8,308.6	387.6	25.9	388.5	12.00	12.00	0.00
End of Curve / 8588' MD / 89.87° / 8317' TVD									
8,588.4	89.87	3.82	8,317.0	475.3	31.7	476.4	12.00	12.00	0.00
8,600.0	89.87	3.82	8,317.0	486.9	32.5	488.0	0.00	0.00	0.00
8,700.0	89.87	3.82	8,317.2	586.7	39.1	588.0	0.00	0.00	0.00
8,800.0	89.87	3.82	8,317.5	686.4	45.8	688.0	0.00	0.00	0.00
8,900.0	89.87	3.82	8,317.7	786.2	52.5	788.0	0.00	0.00	0.00
9,000.0	89.87	3.82	8,317.9	886.0	59.1	888.0	0.00	0.00	0.00
9,100.0	89.87	3.82	8,318.1	985.8	65.8	988.0	0.00	0.00	0.00
9,200.0	89.87	3.82	8,318.4	1,085.5	72.4	1,088.0	0.00	0.00	0.00
9,300.0	89.87	3.82	8,318.6	1,185.3	79.1	1,188.0	0.00	0.00	0.00
9,400.0	89.87	3.82	8,318.8	1,285.1	85.7	1,288.0	0.00	0.00	0.00
9,500.0	89.87	3.82	8,319.1	1,384.9	92.4	1,388.0	0.00	0.00	0.00
9,600.0	89.87	3.82	8,319.3	1,484.7	99.1	1,488.0	0.00	0.00	0.00
9,700.0	89.87	3.82	8,319.5	1,584.4	105.7	1,588.0	0.00	0.00	0.00
9,800.0	89.87	3.82	8,319.8	1,684.2	112.4	1,688.0	0.00	0.00	0.00
9,900.0	89.87	3.82	8,320.0	1,784.0	119.0	1,788.0	0.00	0.00	0.00
10,000.0	89.87	3.82	8,320.2	1,883.8	125.7	1,888.0	0.00	0.00	0.00
10,100.0	89.87	3.82	8,320.5	1,983.6	132.4	1,988.0	0.00	0.00	0.00
10,200.0	89.87	3.82	8,320.7	2,083.3	139.0	2,088.0	0.00	0.00	0.00

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Well Planning Report



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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)
10,300.0	89.87	3.82	8,320.9	2,183.1	145.7	2,188.0	0.00	0.00	0.00
10,400.0	89.87	3.82	8,321.2	2,282.9	152.3	2,288.0	0.00	0.00	0.00
10,500.0	89.87	3.82	8,321.4	2,382.7	159.0	2,388.0	0.00	0.00	0.00
10,600.0	89.87	3.82	8,321.6	2,482.4	165.6	2,488.0	0.00	0.00	0.00
10,700.0	89.87	3.82	8,321.8	2,582.2	172.3	2,588.0	0.00	0.00	0.00
10,800.0	89.87	3.82	8,322.1	2,682.0	179.0	2,688.0	0.00	0.00	0.00
10,900.0	89.87	3.82	8,322.3	2,781.8	185.6	2,788.0	0.00	0.00	0.00
11,000.0	89.87	3.82	8,322.5	2,881.6	192.3	2,888.0	0.00	0.00	0.00
11,100.0	89.87	3.82	8,322.8	2,981.3	198.9	2,988.0	0.00	0.00	0.00
11,200.0	89.87	3.82	8,323.0	3,081.1	205.6	3,088.0	0.00	0.00	0.00
11,300.0	89.87	3.82	8,323.2	3,180.9	212.2	3,188.0	0.00	0.00	0.00
11,400.0	89.87	3.82	8,323.5	3,280.7	218.9	3,288.0	0.00	0.00	0.00
11,500.0	89.87	3.82	8,323.7	3,380.4	225.6	3,388.0	0.00	0.00	0.00
11,600.0	89.87	3.82	8,323.9	3,480.2	232.2	3,488.0	0.00	0.00	0.00
11,700.0	89.87	3.82	8,324.2	3,580.0	238.9	3,588.0	0.00	0.00	0.00
11,800.0	89.87	3.82	8,324.4	3,679.8	245.5	3,688.0	0.00	0.00	0.00
11,900.0	89.87	3.82	8,324.6	3,779.6	252.2	3,788.0	0.00	0.00	0.00
12,000.0	89.87	3.82	8,324.9	3,879.3	258.8	3,888.0	0.00	0.00	0.00
12,100.0	89.87	3.82	8,325.1	3,979.1	265.5	3,988.0	0.00	0.00	0.00
12,200.0	89.87	3.82	8,325.3	4,078.9	272.2	4,088.0	0.00	0.00	0.00
12,300.0	89.87	3.82	8,325.6	4,178.7	278.8	4,188.0	0.00	0.00	0.00
12,400.0	89.87	3.82	8,325.8	4,278.4	285.5	4,288.0	0.00	0.00	0.00
12,500.0	89.87	3.82	8,326.0	4,378.2	292.1	4,388.0	0.00	0.00	0.00
12,600.0	89.87	3.82	8,326.2	4,478.0	298.8	4,488.0	0.00	0.00	0.00
12,700.0	89.87	3.82	8,326.5	4,577.8	305.5	4,588.0	0.00	0.00	0.00
12,800.0	89.87	3.82	8,326.7	4,677.6	312.1	4,688.0	0.00	0.00	0.00
12,900.0	89.87	3.82	8,326.9	4,777.3	318.8	4,788.0	0.00	0.00	0.00
PBHL @ 12926' MD / 8327' TVD									
12,926.3	89.87	3.82	8,327.0	4,803.6	320.5	4,814.3	0.00	0.00	0.00

Design Targets

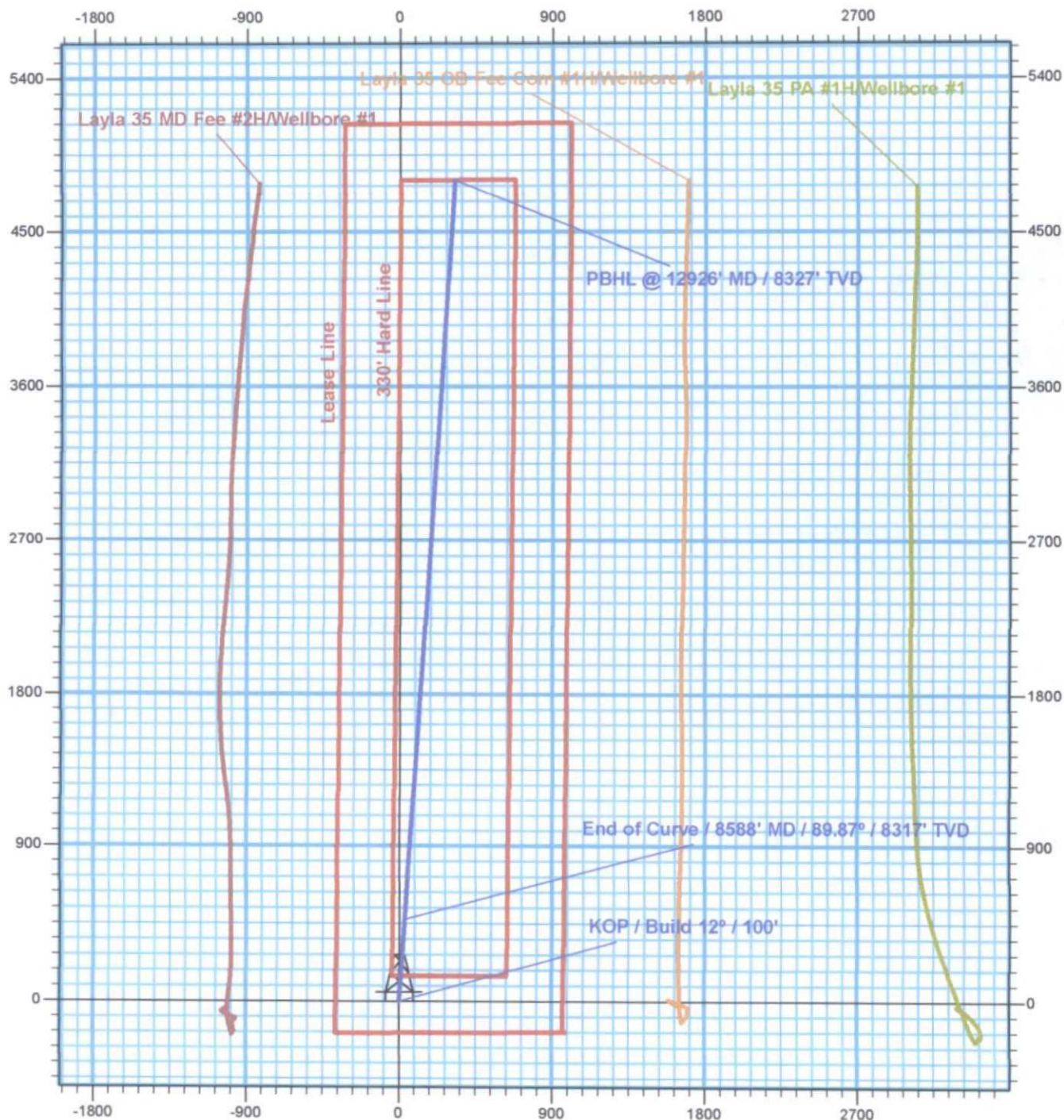
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL Layla 35 B2NC #2	0.00	0.00	8,327.0	4,803.6	320.5	461,269.11	584,595.12	32° 16' 4.257 N	104° 3' 34.715 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
7,839.5	7,839.5	0.0	0.0	KOP / Build 12° / 100'
8,588.4	8,317.0	475.3	31.7	End of Curve / 8588' MD / 89.87° / 8317' TVD
12,926.3	8,327.0	4,803.6	320.5	PBHL @ 12926' MD / 8327' TVD

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Eddy County, New Mexico
Sec 35, T23S, R28E
Layla 35 B2NC #2H
Design #1



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