

HOBBS OCD

MAR 21 2016

RECEIVED

Mewbourne Oil Company

Lea County, New Mexico
Crazy Wolf 1 B2MD Fed 1H
Sec 1, T19S, R32E
SL: 185 FSL & 660 FWL
BHL: 330 FNL & 660 FWL

Plan: Design #1

Standard Planning Report

18 September, 2014

MAR 22 2016

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Crazy Wolf 1 B2MD Fed 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3690.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3690.0usft (Original Well Elev)
Site:	Crazy Wolf 1 B2MD Fed 1H	North Reference:	Grid
Well:	Sec 1, T19S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330 FNL & 660 FWL		
Design:	Design #1		

Project	Lea 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	Crazy Wolf 1 B2MD Fed 1H		
Site Position:		Northing:	612,542.20 usft
From:	Map	Easting:	686,950.60 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 40' 57.023 N
		Longitude:	103° 43' 32.583 W
		Grid Convergence:	0.33 °

Well	Sec 1, T19S, R32E		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,690.0 usft
		Latitude:	32° 40' 57.023 N
		Longitude:	103° 43' 32.583 W
		Ground Level:	3,670.0 usft

Wellbore	BHL: 330 FNL & 660 FWL		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	9/18/2014	7.29
			Dip Angle
			(°)
			60.50
			Field Strength
			(nT)
			48,547

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
			(°)
			359.58

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	
9,212.5	0.00	0.00	9,212.5	0.0	0.0	0.00	0.00	0.00	0.00	
9,973.9	91.34	359.58	9,690.0	488.8	-3.6	12.00	12.00	0.00	-0.42	
14,252.6	91.34	359.58	9,590.0	4,766.2	-35.2	0.00	0.00	0.00	0.00	BHL: 330 FNL & 660 I

Planning Report

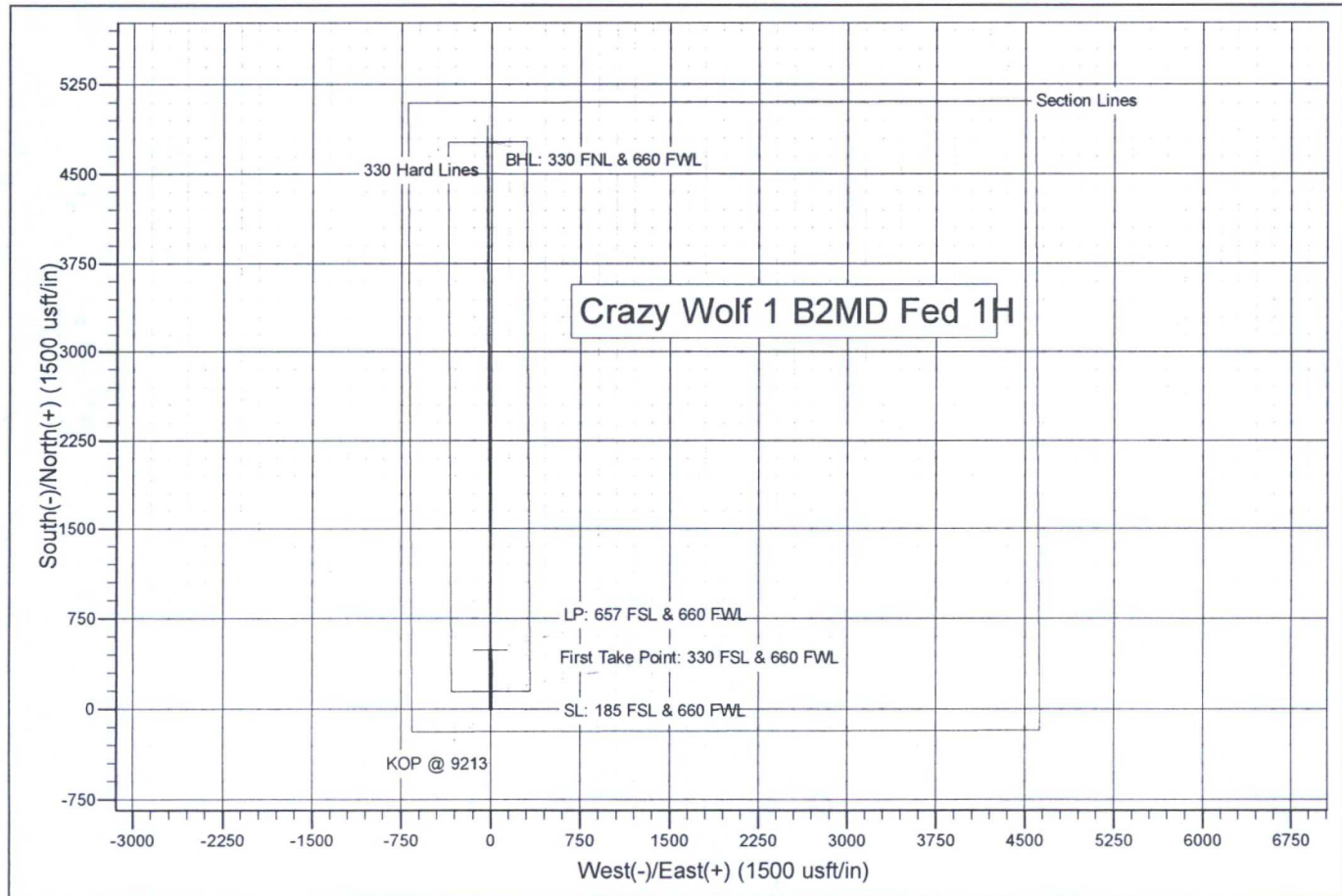
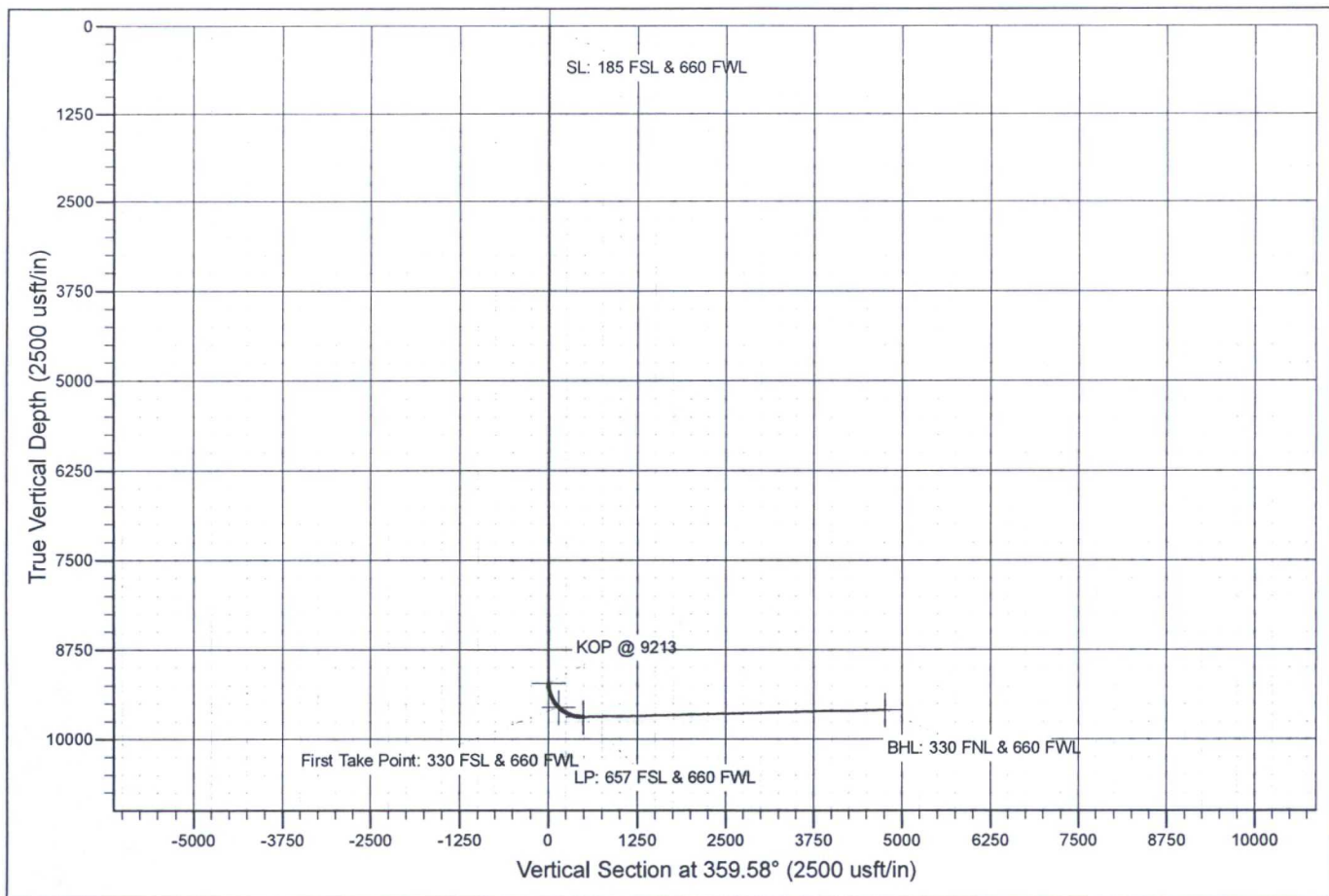
Database:	Hobbs	Local Co-ordinate Reference:	Site Crazy Wolf 1 B2MD Fed 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3690.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3690.0usft (Original Well Elev)
Site:	Crazy Wolf 1 B2MD Fed 1H	North Reference:	Grid
Well:	Sec 1, T19S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330 FNL & 660 FWL		
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)	
10,000.0	91.34	359.58	9,689.4	514.8	-3.8	514.9	0.00	0.00	0.00	
10,100.0	91.34	359.58	9,687.1	614.8	-4.5	614.8	0.00	0.00	0.00	
10,200.0	91.34	359.58	9,684.7	714.8	-5.3	714.8	0.00	0.00	0.00	
10,300.0	91.34	359.58	9,682.4	814.8	-6.0	814.8	0.00	0.00	0.00	
10,400.0	91.34	359.58	9,680.0	914.7	-6.8	914.8	0.00	0.00	0.00	
10,500.0	91.34	359.58	9,677.7	1,014.7	-7.5	1,014.7	0.00	0.00	0.00	
10,600.0	91.34	359.58	9,675.4	1,114.7	-8.2	1,114.7	0.00	0.00	0.00	
10,700.0	91.34	359.58	9,673.0	1,214.6	-9.0	1,214.7	0.00	0.00	0.00	
10,800.0	91.34	359.58	9,670.7	1,314.6	-9.7	1,314.6	0.00	0.00	0.00	
10,900.0	91.34	359.58	9,668.4	1,414.6	-10.4	1,414.6	0.00	0.00	0.00	
11,000.0	91.34	359.58	9,666.0	1,514.5	-11.2	1,514.6	0.00	0.00	0.00	
11,100.0	91.34	359.58	9,663.7	1,614.5	-11.9	1,614.6	0.00	0.00	0.00	
11,200.0	91.34	359.58	9,661.3	1,714.5	-12.7	1,714.5	0.00	0.00	0.00	
11,300.0	91.34	359.58	9,659.0	1,814.5	-13.4	1,814.5	0.00	0.00	0.00	
11,400.0	91.34	359.58	9,656.7	1,914.4	-14.1	1,914.5	0.00	0.00	0.00	
11,500.0	91.34	359.58	9,654.3	2,014.4	-14.9	2,014.5	0.00	0.00	0.00	
11,600.0	91.34	359.58	9,652.0	2,114.4	-15.6	2,114.4	0.00	0.00	0.00	
11,700.0	91.34	359.58	9,649.7	2,214.3	-16.4	2,214.4	0.00	0.00	0.00	
11,800.0	91.34	359.58	9,647.3	2,314.3	-17.1	2,314.4	0.00	0.00	0.00	
11,900.0	91.34	359.58	9,645.0	2,414.3	-17.8	2,414.3	0.00	0.00	0.00	
12,000.0	91.34	359.58	9,642.6	2,514.2	-18.6	2,514.3	0.00	0.00	0.00	
12,100.0	91.34	359.58	9,640.3	2,614.2	-19.3	2,614.3	0.00	0.00	0.00	
12,200.0	91.34	359.58	9,638.0	2,714.2	-20.0	2,714.3	0.00	0.00	0.00	
12,300.0	91.34	359.58	9,635.6	2,814.2	-20.8	2,814.2	0.00	0.00	0.00	
12,400.0	91.34	359.58	9,633.3	2,914.1	-21.5	2,914.2	0.00	0.00	0.00	
12,500.0	91.34	359.58	9,631.0	3,014.1	-22.3	3,014.2	0.00	0.00	0.00	
12,600.0	91.34	359.58	9,628.6	3,114.1	-23.0	3,114.2	0.00	0.00	0.00	
12,700.0	91.34	359.58	9,626.3	3,214.0	-23.7	3,214.1	0.00	0.00	0.00	
12,800.0	91.34	359.58	9,624.0	3,314.0	-24.5	3,314.1	0.00	0.00	0.00	
12,900.0	91.34	359.58	9,621.6	3,414.0	-25.2	3,414.1	0.00	0.00	0.00	
13,000.0	91.34	359.58	9,619.3	3,513.9	-26.0	3,514.0	0.00	0.00	0.00	
13,100.0	91.34	359.58	9,616.9	3,613.9	-26.7	3,614.0	0.00	0.00	0.00	
13,200.0	91.34	359.58	9,614.6	3,713.9	-27.4	3,714.0	0.00	0.00	0.00	
13,300.0	91.34	359.58	9,612.3	3,813.9	-28.2	3,814.0	0.00	0.00	0.00	
13,400.0	91.34	359.58	9,609.9	3,913.8	-28.9	3,913.9	0.00	0.00	0.00	
13,500.0	91.34	359.58	9,607.6	4,013.8	-29.6	4,013.9	0.00	0.00	0.00	
13,600.0	91.34	359.58	9,605.3	4,113.8	-30.4	4,113.9	0.00	0.00	0.00	
13,700.0	91.34	359.58	9,602.9	4,213.7	-31.1	4,213.9	0.00	0.00	0.00	
13,800.0	91.34	359.58	9,600.6	4,313.7	-31.9	4,313.8	0.00	0.00	0.00	
13,900.0	91.34	359.58	9,598.2	4,413.7	-32.6	4,413.8	0.00	0.00	0.00	
14,000.0	91.34	359.58	9,595.9	4,513.6	-33.3	4,513.8	0.00	0.00	0.00	
14,100.0	91.34	359.58	9,593.6	4,613.6	-34.1	4,613.7	0.00	0.00	0.00	
14,200.0	91.34	359.58	9,591.2	4,713.6	-34.8	4,713.7	0.00	0.00	0.00	
14,252.6	91.34	359.58	9,590.0	4,766.2	-35.2	4,766.3	0.00	0.00	0.00	
BHL: 330 FNL & 660 FWL										

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Crazy Wolf 1 B2MD Fed 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3690.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3690.0usft (Original Well Elev)
Site:	Crazy Wolf 1 B2MD Fed 1H	North Reference:	Grid
Well:	Sec 1, T19S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330 FNL & 660 FWL		
Design:	Design #1		

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: 185 FSL & 660 FWL - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	612,542.20	686,950.60	32° 40' 57.023 N	103° 43' 32.583 W
KOP @ 9213 - plan hits target center - Point	0.00	0.00	9,212.5	0.0	0.0	612,542.20	686,950.60	32° 40' 57.023 N	103° 43' 32.583 W
First Take Point: 330 FSL - plan misses target center by 2.1usft at 9595.4usft MD (9555.7 TVD, 145.4 N, -1.1 E) - Point	0.00	0.00	9,557.0	143.8	-0.7	612,686.00	686,949.90	32° 40' 58.446 N	103° 43' 32.582 W
BHL: 330 FNL & 660 FW - plan hits target center - Point	0.00	0.00	9,590.0	4,766.2	-35.2	617,308.40	686,915.40	32° 41' 44.187 N	103° 43' 32.676 W
LP: 657 FSL & 660 FWL - plan hits target center - Point	0.00	0.00	9,690.0	488.8	-3.6	613,031.00	686,947.00	32° 41' 1.860 N	103° 43' 32.593 W



Mewbourne Oil Company

Lea County, New Mexico
Crazy Wolf 1 B2MD Fed 1H
Sec 1, T19S, R32E
SL: 185 FSL & 660 FWL
BHL: 330 FNL & 660 FWL
Design #1

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Anticollision Summary Report

14 August, 2015

Anticollision Summary Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Site Crazy Wolf 1 B2MD Fed 1H
Project:	Lea County, New Mexico	TVD Reference:	WELL @ 3690.0usft (Original Well Elev)
Reference Site:	Crazy Wolf 1 B2MD Fed 1H	MD Reference:	WELL @ 3690.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Sec 1, T19S, R32E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	BHL: 330 FNL & 660 FWL	Database:	Hobbs
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		WARNING: There is hidden tight data in this project
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 usft		Error Surface: Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date 9/18/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	14,252.6	Design #1 (BHL: 330 FNL & 660 FWL)		

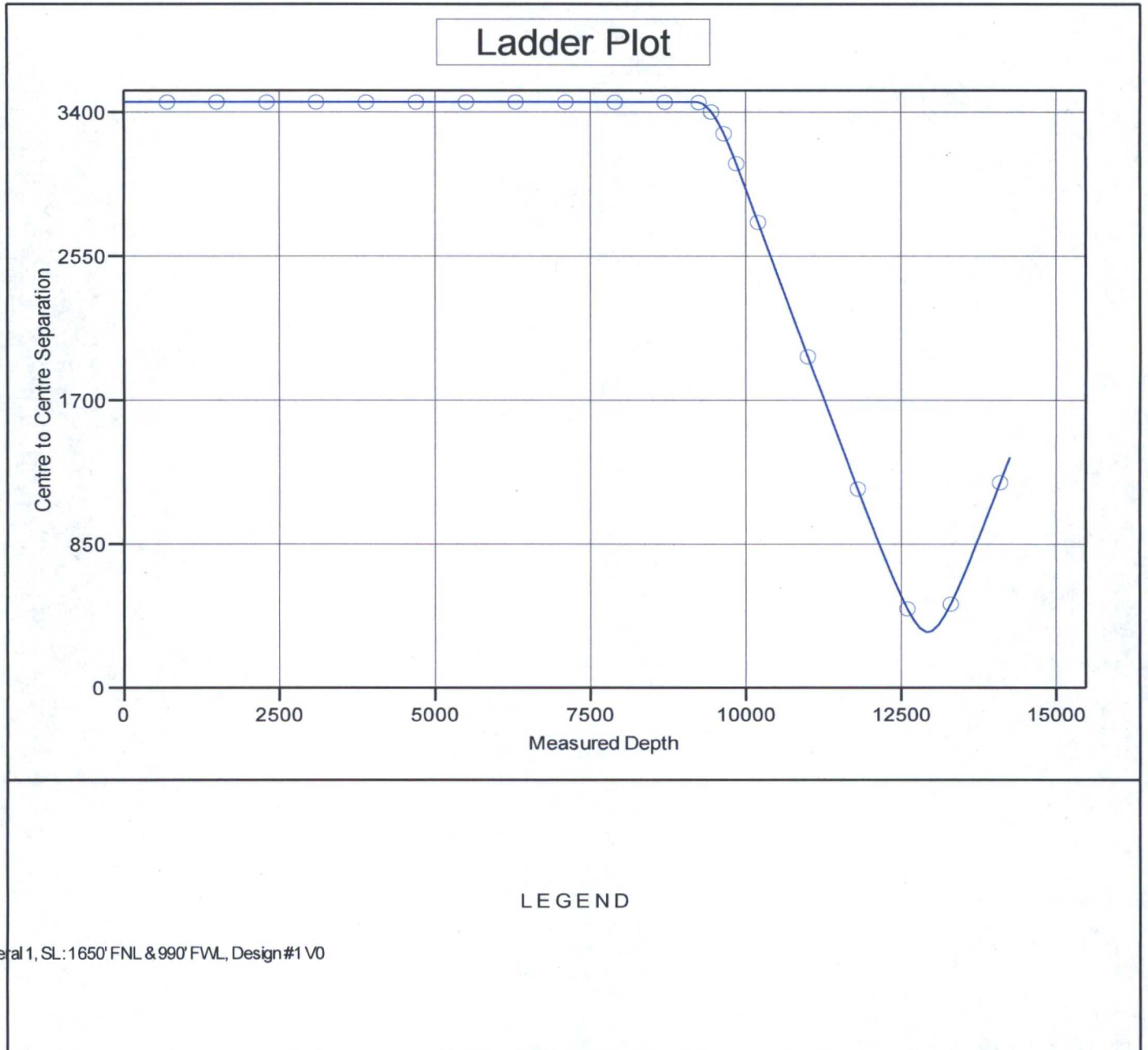
Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Crazy Wolf 1 B2MD Fed 1H						
Cochise 1 Federal 1 - SL: 1650' FNL & 990' FWL - Desig	0.0	0.0	3,460.8			
Cochise 1 Federal 1 - SL: 1650' FNL & 990' FWL - Desig	12,930.9	9,620.9	329.9			

Anticollision Summary Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Site Crazy Wolf 1 B2MD Fed 1H
Project:	Lea County, New Mexico	TVD Reference:	WELL @ 3690.0usft (Original Well Elev)
Reference Site:	Crazy Wolf 1 B2MD Fed 1H	MD Reference:	WELL @ 3690.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Sec 1, T19S, R32E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	BHL: 330 FNL & 660 FWL	Database:	Hobbs
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3690.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Crazy Wolf 1 B2MD Fed 1H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.33°



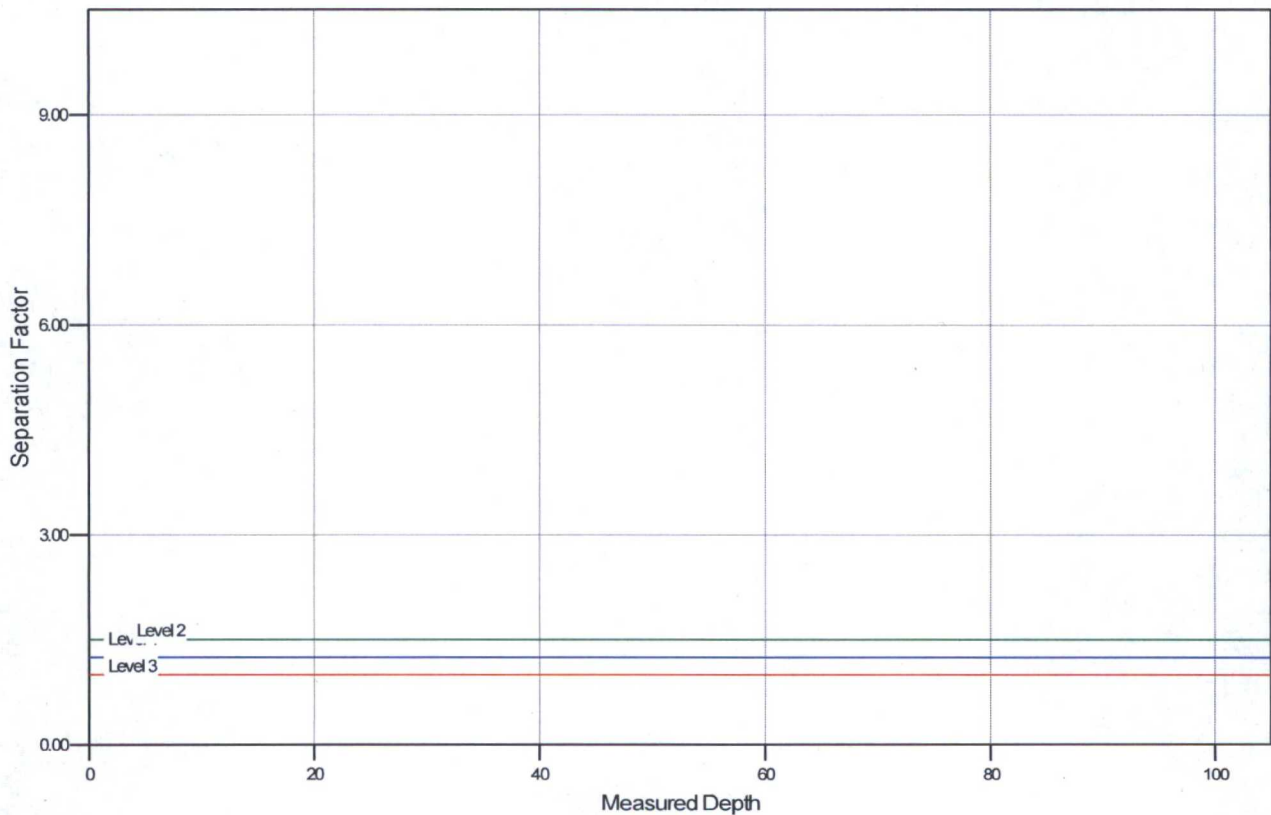
Anticollision Summary Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Site Crazy Wolf 1 B2MD Fed 1H
Project:	Lea County, New Mexico	TVD Reference:	WELL @ 3690.0usft (Original Well Elev)
Reference Site:	Crazy Wolf 1 B2MD Fed 1H	MD Reference:	WELL @ 3690.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Sec 1, T19S, R32E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	BHL: 330 FNL & 660 FWL	Database:	Hobbs
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3690.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Crazy Wolf 1 B2MD Fed 1H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.33°

Separation Factor Plot



LEGEND

Level 1, SL: 1650' FNL & 990' FWL, Design #1 V0