

Mewbourne Oil Co

Eddy County, New Mexico

Sec 15, T18S, R31E

Tamano 15 AD Federal Com #1H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

18 December, 2012

SL: 680 FNL & 180 FEL

LP: 703 FNL & 656 FEL

BHL: 850 FNL & 330 FWL

Oil Conservation Division
Case No. 13
Exhibit No. 13

DDC
The DIRECTIONAL DRILLING COMPANY

DDC

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Tamano 15 AD Federal Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3727.0usft (UDI #75)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3727.0usft (UDI #75)
Site:	Sec 15, T18S, R31E	North Reference:	Grid
Well:	Tamano 15 AD Federal Com #1H	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 15, T18S, R31E		
Site Position:		Northing:	637,920.20 usft
From:	Map	Easting:	648,948.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 45' 10.079 N
		Longitude:	103° 50' 55.854 W
		Grid Convergence:	0.26 °

Well	Tamano 15 AD Federal Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 637,920.20 usft
	+E/-W	0.0 usft	Easting: 648,948.50 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 45' 10.079 N
			Longitude: 103° 50' 55.854 W
			Ground Level: 3,707.0 usft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/18/2012	7.57	60.59	48,751

Design	Design #1		
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Audit Notes:

Version:	Phase:	PLAN	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	267.58

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	
8,049.5	0.00	0.00	8,049.5	0.0	0.0	0.00	0.00	0.00	0.00	
8,799.5	90.00	267.58	8,527.0	-20.2	-477.0	12.00	12.00	-12.32	267.58	
13,094.9	90.00	267.58	8,527.0	-201.8	-4,768.6	0.00	0.00	0.00	0.00	PBHL Tamano 15 A

DDC
Well Planning Report



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Site:	Sec 15, T18S, R31E	North Reference:	Grid
Well:	Tamano 15 AD Federal Com #1H	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)
Build 12° / 100'									
8,049.5	0.00	0.00	8,049.5	0.0	0.0	0.0	0.00	0.00	0.00
8,075.0	3.06	267.58	8,075.0	0.0	-0.7	0.7	12.00	12.00	0.00
8,100.0	6.06	267.58	8,099.9	-0.1	-2.7	2.7	12.00	12.00	0.00
8,125.0	9.06	267.58	8,124.7	-0.3	-6.0	6.0	12.00	12.00	0.00
8,150.0	12.06	267.58	8,149.3	-0.4	-10.5	10.5	12.00	12.00	0.00
8,175.0	15.06	267.58	8,173.6	-0.7	-16.4	16.4	12.00	12.00	0.00
8,200.0	18.06	267.58	8,197.5	-1.0	-23.5	23.5	12.00	12.00	0.00
8,225.0	21.06	267.58	8,221.1	-1.3	-31.9	31.9	12.00	12.00	0.00
8,250.0	24.06	267.58	8,244.2	-1.8	-41.4	41.5	12.00	12.00	0.00
8,275.0	27.06	267.58	8,266.7	-2.2	-52.2	52.3	12.00	12.00	0.00
8,300.0	30.06	267.58	8,288.7	-2.7	-64.2	64.2	12.00	12.00	0.00
8,325.0	33.06	267.58	8,310.0	-3.3	-77.2	77.3	12.00	12.00	0.00
8,350.0	36.06	267.58	8,330.6	-3.9	-91.4	91.5	12.00	12.00	0.00
8,375.0	39.06	267.58	8,350.4	-4.5	-106.6	106.7	12.00	12.00	0.00
8,400.0	42.06	267.58	8,369.4	-5.2	-122.9	123.0	12.00	12.00	0.00
8,425.0	45.06	267.58	8,387.5	-5.9	-140.1	140.2	12.00	12.00	0.00
8,450.0	48.06	267.58	8,404.7	-6.7	-158.2	158.4	12.00	12.00	0.00
8,475.0	51.06	267.58	8,420.9	-7.5	-177.2	177.4	12.00	12.00	0.00
8,500.0	54.06	267.58	8,436.1	-8.3	-197.0	197.2	12.00	12.00	0.00
8,525.0	57.06	267.58	8,450.2	-9.2	-217.6	217.8	12.00	12.00	0.00
8,550.0	60.06	267.58	8,463.2	-10.1	-239.0	239.2	12.00	12.00	0.00
8,575.0	63.06	267.58	8,475.2	-11.0	-260.9	261.1	12.00	12.00	0.00
8,600.0	66.06	267.58	8,485.9	-12.0	-283.5	283.7	12.00	12.00	0.00
8,625.0	69.06	267.58	8,495.4	-13.0	-306.5	306.8	12.00	12.00	0.00
8,650.0	72.06	267.58	8,503.8	-14.0	-330.1	330.4	12.00	12.00	0.00
8,675.0	75.06	267.58	8,510.8	-15.0	-354.1	354.4	12.00	12.00	0.00
8,700.0	78.06	267.58	8,516.6	-16.0	-378.3	378.7	12.00	12.00	0.00
8,725.0	81.06	267.58	8,521.2	-17.1	-402.9	403.3	12.00	12.00	0.00
8,750.0	84.06	267.58	8,524.4	-18.1	-427.7	428.1	12.00	12.00	0.00
8,775.0	87.06	267.58	8,526.3	-19.2	-452.6	453.0	12.00	12.00	0.00
EOB @ 90.00° Inc / 267.58° Azm / 8527' TVD									
8,799.5	90.00	267.58	8,527.0	-20.2	-477.0	477.5	12.00	12.00	0.00
8,900.0	90.00	267.58	8,527.0	-24.4	-577.4	578.0	0.00	0.00	0.00
9,000.0	90.00	267.58	8,527.0	-28.7	-677.4	678.0	0.00	0.00	0.00
9,100.0	90.00	267.58	8,527.0	-32.9	-777.3	778.0	0.00	0.00	0.00
9,200.0	90.00	267.58	8,527.0	-37.1	-877.2	878.0	0.00	0.00	0.00
9,300.0	90.00	267.58	8,527.0	-41.3	-977.1	978.0	0.00	0.00	0.00
9,400.0	90.00	267.58	8,527.0	-45.6	-1,077.0	1,078.0	0.00	0.00	0.00
9,500.0	90.00	267.58	8,527.0	-49.8	-1,176.9	1,178.0	0.00	0.00	0.00
9,600.0	90.00	267.58	8,527.0	-54.0	-1,276.8	1,278.0	0.00	0.00	0.00
9,700.0	90.00	267.58	8,527.0	-58.3	-1,376.7	1,378.0	0.00	0.00	0.00
9,800.0	90.00	267.58	8,527.0	-62.5	-1,476.6	1,478.0	0.00	0.00	0.00
9,900.0	90.00	267.58	8,527.0	-66.7	-1,576.6	1,578.0	0.00	0.00	0.00
10,000.0	90.00	267.58	8,527.0	-70.9	-1,676.5	1,678.0	0.00	0.00	0.00
10,100.0	90.00	267.58	8,527.0	-75.2	-1,776.4	1,778.0	0.00	0.00	0.00
10,200.0	90.00	267.58	8,527.0	-79.4	-1,876.3	1,878.0	0.00	0.00	0.00
10,300.0	90.00	267.58	8,527.0	-83.6	-1,976.2	1,978.0	0.00	0.00	0.00
10,400.0	90.00	267.58	8,527.0	-87.9	-2,076.1	2,078.0	0.00	0.00	0.00
10,500.0	90.00	267.58	8,527.0	-92.1	-2,176.0	2,178.0	0.00	0.00	0.00
10,600.0	90.00	267.58	8,527.0	-96.3	-2,275.9	2,278.0	0.00	0.00	0.00
10,700.0	90.00	267.58	8,527.0	-100.5	-2,375.8	2,378.0	0.00	0.00	0.00
10,800.0	90.00	267.58	8,527.0	-104.8	-2,475.7	2,478.0	0.00	0.00	0.00
10,900.0	90.00	267.58	8,527.0	-109.0	-2,575.7	2,578.0	0.00	0.00	0.00



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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)
11,000.0	90.00	267.58	8,527.0	-113.2	-2,675.6	2,678.0	0.00	0.00	0.00
11,100.0	90.00	267.58	8,527.0	-117.5	-2,775.5	2,778.0	0.00	0.00	0.00
11,200.0	90.00	267.58	8,527.0	-121.7	-2,875.4	2,878.0	0.00	0.00	0.00
11,300.0	90.00	267.58	8,527.0	-125.9	-2,975.3	2,978.0	0.00	0.00	0.00
11,400.0	90.00	267.58	8,527.0	-130.1	-3,075.2	3,078.0	0.00	0.00	0.00
11,500.0	90.00	267.58	8,527.0	-134.4	-3,175.1	3,178.0	0.00	0.00	0.00
11,600.0	90.00	267.58	8,527.0	-138.6	-3,275.0	3,278.0	0.00	0.00	0.00
11,700.0	90.00	267.58	8,527.0	-142.8	-3,374.9	3,378.0	0.00	0.00	0.00
11,800.0	90.00	267.58	8,527.0	-147.1	-3,474.9	3,478.0	0.00	0.00	0.00
11,900.0	90.00	267.58	8,527.0	-151.3	-3,574.8	3,578.0	0.00	0.00	0.00
12,000.0	90.00	267.58	8,527.0	-155.5	-3,674.7	3,678.0	0.00	0.00	0.00
12,100.0	90.00	267.58	8,527.0	-159.7	-3,774.6	3,778.0	0.00	0.00	0.00
12,200.0	90.00	267.58	8,527.0	-164.0	-3,874.5	3,878.0	0.00	0.00	0.00
12,300.0	90.00	267.58	8,527.0	-168.2	-3,974.4	3,978.0	0.00	0.00	0.00
12,400.0	90.00	267.58	8,527.0	-172.4	-4,074.3	4,078.0	0.00	0.00	0.00
12,500.0	90.00	267.58	8,527.0	-176.6	-4,174.2	4,178.0	0.00	0.00	0.00
12,600.0	90.00	267.58	8,527.0	-180.9	-4,274.1	4,278.0	0.00	0.00	0.00
12,700.0	90.00	267.58	8,527.0	-185.1	-4,374.0	4,378.0	0.00	0.00	0.00
12,800.0	90.00	267.58	8,527.0	-189.3	-4,474.0	4,478.0	0.00	0.00	0.00
12,900.0	90.00	267.58	8,527.0	-193.6	-4,573.9	4,578.0	0.00	0.00	0.00
13,000.0	90.00	267.58	8,527.0	-197.8	-4,673.8	4,678.0	0.00	0.00	0.00
13,094.9	90.00	267.58	8,527.0	-201.8	-4,768.6	4,772.9	0.00	0.00	0.00

Design Targets

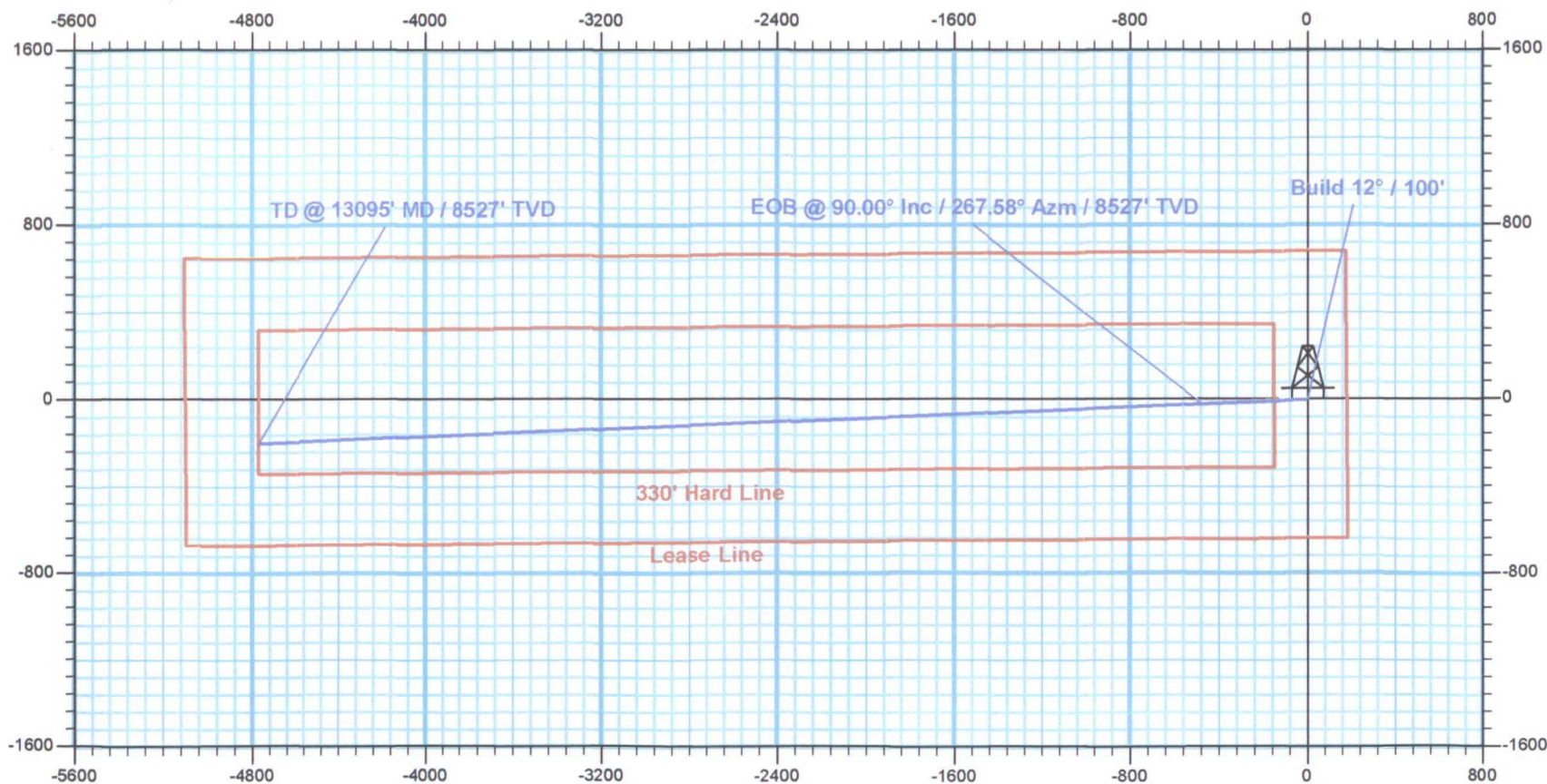
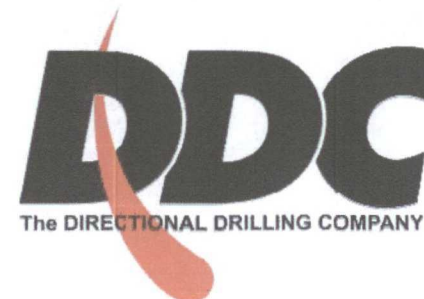
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL Tamano 15 AD	0.00	0.00	8,527.0	-201.8	-4,768.6	637,718.40	644,179.90	32° 45' 8.295 N	103° 51' 51.702 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
8,049.5	8,049.5	0.0	0.0	Build 12° / 100'
8,799.5	8,527.0	-20.2	-477.0	EOB @ 90.00° Inc / 267.58° Azm / 8527' TVD
13,094.9	8,527.0	-201.8	-4,768.6	TD @ 13095' MD / 8527' TVD

Mewbourne Oil Company

Eddy County, New Mexico
Tamano 15 AD Federal Com #1H
Quote 120959
Design #1



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Eddy County, New Mexico
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