

Mewbourne Oil Co

Eddy County, New Mexico
Sec 30, T18S, R30E
Bradley 30 Fed Com #3H

30-015-40168

Wellbore #1

Survey: MWD

DDC Survey Report

06 November, 2012

Submit notarized tie-in survey to 7125'
↑



DDC Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Bradley 30 Fed Com #3H
Project:	Eddy County, New Mexico	TVD Reference:	well @ 3475.0usft (Patterson_UTI #45)
Site:	Sec 30, T18S, R30E	MD Reference:	well @ 3475.0usft (Patterson_UTI #45)
Well:	Bradley 30 Fed Com #3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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 30, T18S, R30E		
Site Position:		Northing:	622,986.86 usft
From:	Lat/Long	Easting:	601,612.61 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 42' 44.110 N
		Longitude:	104° 0' 10.680 W
		Grid Convergence:	0.18 °

Well:	Bradley 30 Fed Com #3H		
Well Position	+N/-S	0.0 usft	Northing: 626,032.67 usft
	+E/-W	0.0 usft	Easting: 596,767.15 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 43' 14.396 N
		Longitude:	104° 1' 7.287 W
		Ground Level:	3,455.0 usft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/19/2012	7.66	60.54	48,731

Design: Wellbore #1

Audit Notes:	
Version:	1.0
Phase:	ACTUAL
Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	88.39

Survey Program Date: 11/6/2012

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,125.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro
7,286.0	12,599.0	MWD (Wellbore #1)	MWD default	MWD - Standard

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)
TIE IN @ 7125' MD / 7124' TVD									
7,125.0	0.76	134.67	7,123.9	19.2	-32.3	-31.7	0.00	0.00	0.00
7,286.0	1.10	103.10	7,284.9	18.1	-30.0	-29.5	0.37	0.21	-19.61
7,427.0	1.00	131.80	7,425.9	17.0	-27.8	-27.3	0.38	-0.07	20.35
7,508.0	0.80	132.30	7,506.9	16.1	-26.8	-26.4	0.25	-0.25	0.62
7,540.0	1.00	89.60	7,538.9	16.0	-26.4	-25.9	2.13	0.63	-133.44
7,572.0	2.50	94.20	7,570.8	15.9	-25.4	-25.0	4.70	4.69	14.38
7,603.0	5.70	88.50	7,601.8	15.9	-23.2	-22.8	10.39	10.32	-18.39
7,635.0	10.10	85.40	7,633.4	16.2	-18.8	-18.4	13.81	13.75	-9.69
7,667.0	14.10	85.00	7,664.7	16.7	-12.1	-11.7	12.50	12.50	-1.25

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
7,699.0	17.90	86.40	7,695.5	17.4	-3.3	-2.9	11.94	11.88	4.38
7,730.0	21.50	86.40	7,724.7	18.0	7.1	7.6	11.61	11.61	0.00
7,762.0	24.90	86.90	7,754.1	18.8	19.7	20.2	10.64	10.63	1.56
7,794.0	27.70	88.70	7,782.8	19.3	33.8	34.4	9.10	8.75	5.63
7,826.0	30.60	89.80	7,810.7	19.5	49.4	49.9	9.22	9.06	3.44
7,858.0	34.50	90.80	7,837.7	19.4	66.6	67.1	12.30	12.19	3.13
7,889.0	37.70	90.30	7,862.7	19.2	84.9	85.4	10.37	10.32	-1.61
7,921.0	41.50	89.80	7,887.4	19.2	105.3	105.8	11.92	11.88	-1.56
7,953.0	45.50	89.80	7,910.6	19.3	127.3	127.8	12.50	12.50	0.00
7,985.0	49.20	89.10	7,932.3	19.5	150.8	151.3	11.67	11.56	-2.19
8,016.0	52.50	88.90	7,951.8	19.9	174.9	175.4	10.66	10.65	-0.65
CROSSED HARD LINE @ 8025' MD / 7958' TVD									
8,025.4	53.70	88.69	7,957.5	20.1	182.4	182.9	12.94	12.81	-2.27
8,048.0	56.60	88.20	7,970.4	20.6	200.9	201.4	12.94	12.81	-2.15
8,080.0	59.70	88.70	7,987.3	21.3	228.1	228.6	9.78	9.69	1.56
8,112.0	63.10	89.10	8,002.6	21.9	256.2	256.7	10.68	10.63	1.25
8,143.0	67.00	88.90	8,015.6	22.4	284.3	284.8	12.59	12.58	-0.65
8,175.0	71.50	88.00	8,027.0	23.2	314.2	314.7	14.31	14.06	-2.81
8,207.0	74.70	88.70	8,036.3	24.1	344.8	345.3	10.22	10.00	2.19
8,239.0	77.90	88.90	8,043.9	24.7	375.9	376.4	10.02	10.00	0.63
8,346.0	87.80	93.10	8,057.2	22.8	481.9	482.3	10.04	9.25	3.93
8,378.0	89.40	92.90	8,058.0	21.1	513.8	514.2	5.04	5.00	-0.63
8,409.0	89.90	93.10	8,058.1	19.5	544.8	545.1	1.74	1.61	0.65
8,441.0	89.90	93.30	8,058.2	17.7	576.7	577.0	0.62	0.00	0.63
8,473.0	88.80	92.20	8,058.6	16.2	608.7	608.9	4.86	-3.44	-3.44
8,504.0	88.10	91.00	8,059.4	15.3	639.6	639.8	4.48	-2.26	-3.87
8,536.0	88.60	91.20	8,060.3	14.7	671.6	671.8	1.68	1.56	0.63
8,566.0	89.70	92.40	8,060.8	13.8	701.6	701.7	5.43	3.67	4.00
8,600.0	90.00	91.20	8,060.9	12.7	735.6	735.7	3.64	0.88	-3.53
8,631.0	90.10	90.10	8,060.8	12.4	766.6	766.6	3.56	0.32	-3.55
8,663.0	90.30	89.80	8,060.7	12.4	798.6	798.6	1.13	0.63	-0.94
8,695.0	89.90	88.90	8,060.7	12.8	830.6	830.6	3.08	-1.25	-2.81
8,726.0	89.30	88.20	8,060.9	13.5	861.6	861.6	2.97	-1.94	-2.26
8,789.0	89.30	88.90	8,061.6	15.1	924.5	924.6	1.11	0.00	1.11
8,852.0	88.70	86.90	8,062.7	17.4	987.5	987.6	3.31	-0.95	-3.17
8,916.0	88.90	84.70	8,064.1	22.1	1,051.3	1,051.5	3.45	0.31	-3.44
8,979.0	90.00	88.00	8,064.7	26.1	1,114.2	1,114.5	5.52	1.75	5.24
9,042.0	90.40	91.50	8,064.5	26.4	1,177.1	1,177.4	5.59	0.63	5.56
9,105.0	88.50	89.20	8,065.1	26.0	1,240.1	1,240.4	4.74	-3.02	-3.65
9,169.0	87.60	89.20	8,067.3	26.9	1,304.1	1,304.3	1.41	-1.41	0.00
9,232.0	87.10	87.80	8,070.2	28.6	1,367.0	1,367.3	2.36	-0.79	-2.22
9,296.0	86.70	86.20	8,073.6	31.9	1,430.8	1,431.1	2.57	-0.63	-2.50
9,359.0	87.10	86.60	8,077.0	35.9	1,493.6	1,494.0	0.90	0.63	0.63

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9,423.0	88.40	86.90	8,079.5	39.5	1,557.4	1,557.9	2.08	2.03	0.47
9,485.0	89.40	87.80	8,080.7	42.3	1,619.4	1,619.9	2.17	1.61	1.45
9,549.0	90.40	91.50	8,080.8	42.7	1,683.4	1,683.9	5.99	1.56	5.78
9,581.0	90.80	92.70	8,080.5	41.6	1,715.3	1,715.8	3.95	1.25	3.75
9,612.0	91.40	94.30	8,079.9	39.7	1,746.3	1,746.7	5.51	1.94	5.16
9,644.0	90.60	92.90	8,079.4	37.7	1,778.2	1,778.6	5.04	-2.50	-4.38
9,676.0	89.80	91.30	8,079.2	36.5	1,810.2	1,810.5	5.59	-2.50	-5.00
9,707.0	90.30	92.70	8,079.2	35.4	1,841.2	1,841.4	4.80	1.61	4.52
9,739.0	90.50	92.20	8,079.0	34.0	1,873.1	1,873.3	1.68	0.63	-1.56
9,770.0	91.40	91.70	8,078.5	33.0	1,904.1	1,904.3	3.32	2.90	-1.61
9,802.0	90.60	91.20	8,077.9	32.2	1,936.1	1,936.2	2.95	-2.50	-1.56
9,833.0	89.70	91.20	8,077.8	31.5	1,967.1	1,967.2	2.90	-2.90	0.00
9,865.0	89.70	89.80	8,078.0	31.3	1,999.1	1,999.2	4.37	0.00	-4.38
9,897.0	90.02	89.60	8,078.1	31.4	2,031.1	2,031.2	1.18	1.00	-0.63
9,928.0	90.60	90.10	8,077.9	31.5	2,062.1	2,062.1	2.47	1.87	1.61
9,960.0	90.20	88.70	8,077.7	31.8	2,094.1	2,094.1	4.55	-1.25	-4.38
9,991.0	89.30	86.90	8,077.8	33.0	2,125.0	2,125.1	6.49	-2.90	-5.81
10,023.0	90.20	87.30	8,078.0	34.6	2,157.0	2,157.1	3.08	2.81	1.25
10,055.0	90.50	88.00	8,077.8	36.0	2,189.0	2,189.1	2.38	0.94	2.19
10,087.0	89.50	88.20	8,077.8	37.0	2,221.0	2,221.1	3.19	-3.13	0.63
10,118.0	88.60	87.80	8,078.3	38.1	2,251.9	2,252.1	3.18	-2.90	-1.29
10,149.0	88.60	87.80	8,079.1	39.3	2,282.9	2,283.1	0.00	0.00	0.00
10,181.0	89.30	87.50	8,079.6	40.6	2,314.9	2,315.1	2.38	2.19	-0.94
10,212.0	89.80	87.70	8,079.9	41.9	2,345.8	2,346.1	1.74	1.61	0.65
10,244.0	89.00	86.80	8,080.2	43.4	2,377.8	2,378.1	3.76	-2.50	-2.81
10,275.0	89.40	86.90	8,080.6	45.1	2,408.8	2,409.1	1.33	1.29	0.32
10,307.0	89.60	87.50	8,080.9	46.7	2,440.7	2,441.1	1.98	0.63	1.88
10,339.0	88.30	87.80	8,081.5	48.0	2,472.7	2,473.1	4.17	-4.06	0.94
10,371.0	88.30	88.30	8,082.5	49.1	2,504.6	2,505.0	1.56	0.00	1.56
10,402.0	88.40	88.90	8,083.4	49.9	2,535.6	2,536.0	1.96	0.32	1.94
10,434.0	88.30	88.90	8,084.3	50.5	2,567.6	2,568.0	0.31	-0.31	0.00
10,465.0	88.50	88.70	8,085.1	51.1	2,598.6	2,599.0	0.91	0.65	-0.65
10,497.0	88.60	88.50	8,086.0	51.9	2,630.6	2,631.0	0.70	0.31	-0.63
10,528.0	88.70	87.80	8,086.7	52.9	2,661.5	2,662.0	2.28	0.32	-2.26
10,560.0	89.00	87.80	8,087.3	54.1	2,693.5	2,694.0	0.94	0.94	0.00
10,592.0	89.30	87.80	8,087.8	55.4	2,725.5	2,726.0	0.94	0.94	0.00
10,623.0	88.80	87.70	8,088.3	56.6	2,756.5	2,757.0	1.64	-1.61	-0.32
10,654.0	89.00	87.80	8,088.9	57.8	2,787.4	2,788.0	0.72	0.65	0.32
10,685.0	89.70	88.20	8,089.3	58.9	2,818.4	2,818.9	2.60	2.26	1.29
10,717.0	90.70	88.50	8,089.1	59.8	2,850.4	2,850.9	3.26	3.13	0.94
10,748.0	89.80	87.10	8,089.0	61.0	2,881.4	2,881.9	5.37	-2.90	-4.52
10,780.0	88.90	86.20	8,089.4	62.9	2,913.3	2,913.9	3.98	-2.81	-2.81
10,812.0	89.30	86.80	8,089.9	64.8	2,945.2	2,945.9	2.25	1.25	1.88
10,844.0	89.60	87.30	8,090.2	66.5	2,977.2	2,977.9	1.82	0.94	1.56

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10,875.0	90.00	87.50	8,090.3	67.9	3,008.2	3,008.9	1.44	1.29	0.65
10,907.0	90.40	87.50	8,090.2	69.3	3,040.1	3,040.9	1.25	1.25	0.00
10,939.0	90.60	88.20	8,089.9	70.5	3,072.1	3,072.9	2.27	0.63	2.19
10,970.0	89.10	87.70	8,090.0	71.6	3,103.1	3,103.9	5.10	-4.84	-1.61
11,002.0	87.60	87.50	8,090.9	72.9	3,135.1	3,135.9	4.73	-4.69	-0.63
11,065.0	87.80	87.50	8,093.4	75.7	3,197.9	3,198.8	0.32	0.32	0.00
11,128.0	88.30	87.30	8,095.6	78.5	3,260.8	3,261.8	0.85	0.79	-0.32
11,191.0	89.20	87.70	8,097.0	81.3	3,323.8	3,324.7	1.56	1.43	0.63
11,254.0	88.80	88.20	8,098.1	83.5	3,386.7	3,387.7	1.02	-0.63	0.79
11,317.0	88.90	88.20	8,099.3	85.5	3,449.7	3,450.7	0.16	0.16	0.00
11,381.0	87.90	88.00	8,101.1	87.6	3,513.6	3,514.7	1.59	-1.56	-0.31
11,443.0	88.50	88.50	8,103.1	89.5	3,575.5	3,576.7	1.26	0.97	0.81
11,507.0	89.40	89.20	8,104.2	90.8	3,639.5	3,640.6	1.78	1.41	1.09
11,570.0	88.80	89.80	8,105.2	91.3	3,702.5	3,703.6	1.35	-0.95	0.95
11,634.0	89.20	90.10	8,106.3	91.4	3,766.5	3,767.6	0.78	0.63	0.47
11,697.0	89.00	90.30	8,107.3	91.2	3,829.5	3,830.5	0.45	-0.32	0.32
11,761.0	88.90	91.90	8,108.5	89.9	3,893.5	3,894.5	2.50	-0.16	2.50
11,792.0	89.80	93.40	8,108.8	88.5	3,924.4	3,925.4	5.64	2.90	4.84
11,824.0	89.30	92.00	8,109.1	87.0	3,956.4	3,957.3	4.65	-1.56	-4.38
11,856.0	87.80	90.50	8,109.9	86.3	3,988.4	3,989.2	6.63	-4.69	-4.69
11,887.0	87.60	89.60	8,111.1	86.3	4,019.4	4,020.2	2.97	-0.65	-2.90
11,950.0	87.80	88.90	8,113.7	87.1	4,082.3	4,083.1	1.15	0.32	-1.11
12,013.0	88.20	88.70	8,115.9	88.4	4,145.2	4,146.1	0.71	0.63	-0.32
12,077.0	90.50	89.20	8,116.6	89.6	4,209.2	4,210.1	3.68	3.59	0.78
12,140.0	91.30	88.70	8,115.6	90.7	4,272.2	4,273.1	1.50	1.27	-0.79
12,203.0	90.40	88.90	8,114.7	92.1	4,335.2	4,336.1	1.46	-1.43	0.32
12,266.0	90.70	89.20	8,114.1	93.1	4,398.2	4,399.1	0.67	0.48	0.48
12,329.0	90.80	89.10	8,113.2	94.0	4,461.2	4,462.0	0.22	0.16	-0.16
12,392.0	91.40	88.70	8,112.0	95.3	4,524.1	4,525.0	1.14	0.95	-0.63
12,455.0	89.30	87.70	8,111.7	97.2	4,587.1	4,588.0	3.69	-3.33	-1.59
12,518.0	88.10	87.30	8,113.1	100.0	4,650.0	4,651.0	2.01	-1.90	-0.63
12,549.0	88.00	86.60	8,114.1	101.6	4,681.0	4,682.0	2.28	-0.32	-2.26
TD @ 12599 MD / 8116' TVD									
12,599.0	88.00	86.60	8,115.9	104.6	4,730.8	4,731.9	0.00	0.00	0.00

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
7,125.0	7,123.9	19.2	-32.3	TIE IN @ 7125' MD / 7124' TVD
8,025.4	7,957.5	20.1	182.4	CROSSED HARD LINE @ 8025' MD / 7958' TVD
12,599.0	8,115.9	104.6	4,730.8	TD @ 12599' MD / 8116' TVD

DDC
Survey Report

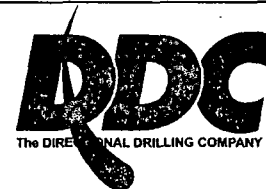


Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Bradley 30 Fed Com #3H
Project:	Eddy County, New Mexico	TVD Reference:	well @ 3475.0usft (Patterson_UTI #45)
Site:	Sec 30, T18S, R30E	MD Reference:	well @ 3475.0usft (Patterson_UTI #45)
Well:	Bradley 30 Fed Com #3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
 Bradley 30 Fed Com #3H
 Eddy County, New Mexico
 Rig: Patterson UT1 #45
 Created By: Dina Chance
 Date: 11/6/2012

Bradley 30 Fed Com #3H
 Eddy County, New Mexico
 Q120011 & WT-12786
 Design #3



Mewbourne Oil Company

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	V-Sect	Departure	Annotation
7125.0	0.76	134.67	7123.9	19.2	-32.3	-31.7	117.7	TIE IN @ 7125' MD / 7124' TVD
8025.4	63.70	88.89	7967.6	20.1	182.4	182.5	333.7	CROSSED HARD LINE @ 8025' MD / 7956' TVD
12099.0	88.00	86.60	8116.9	104.6	4750.8	4751.8	4885.0	TD @ 12099' MD / 8116' TVD

WELL DETAILS:

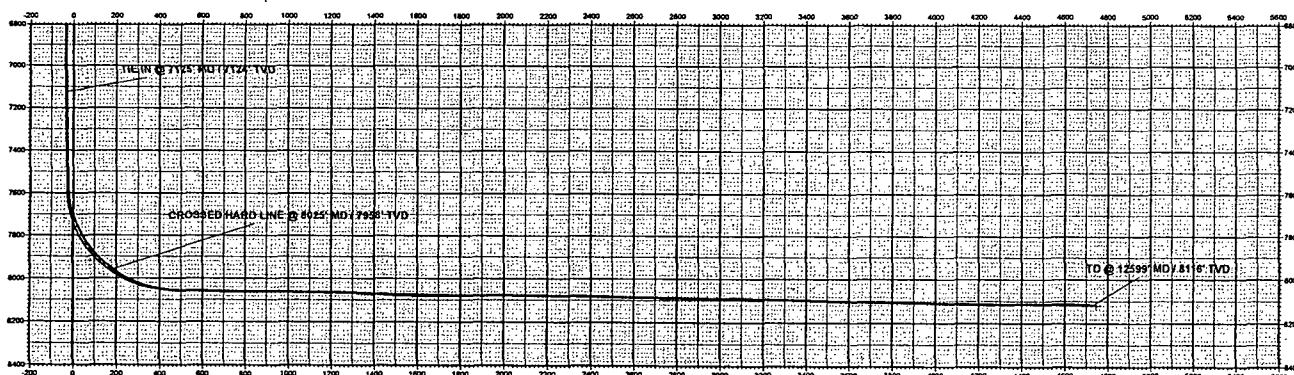
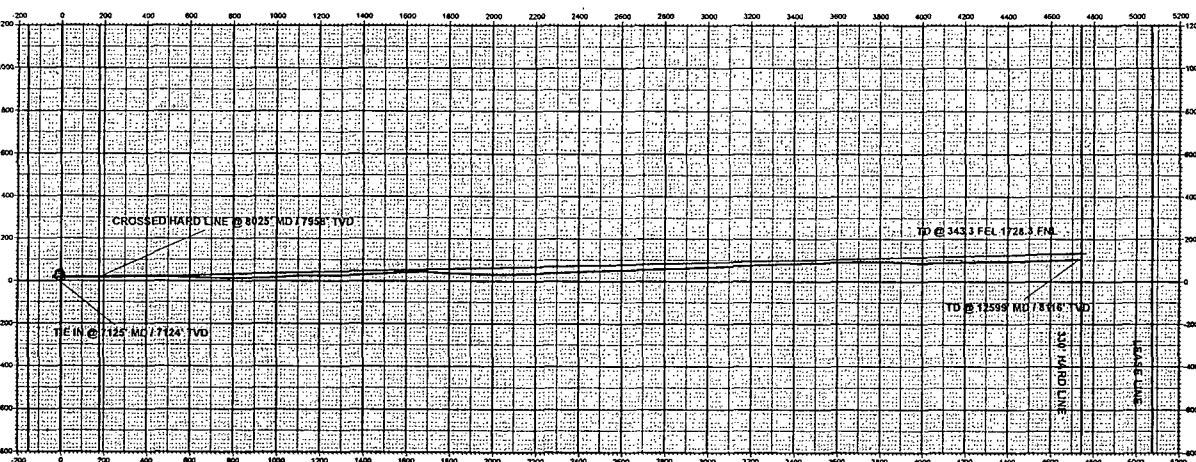
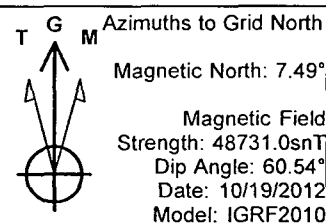
Bradley 30 Fed Com #3H

Ground Level:		3455.0	
+N-S	+E-W	North	East
0.0	0.0	626032.67	696767.15
		Latitude	Longitude
		32° 43' 14.356 N	104° 1' 7.287 W

PROJECT DETAILS:

Eddy County, New Mexico

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level



Vertical Section at 88.39° (200 usf/in)