



MEWBOURNE
OIL COMPANY

30-025-42366

Mewbourne Oil Company

Lea County, NM

Antelope 9 B2MD State COM

No. 1H

Original Hole

HOBBS OCD

JUN 10 2015

RECEIVED

Design: Original Hole

EOW Report

30 April, 2015



JUN 29 2015

dm



Mewbourne Oil Company
Project: Lea County, NM
Site: Antelope 9 B2MD State COM
Well: No. 1H
Wellbore: Original Hole
Design: Plan #2
Lat: 32° 18' 44.137 N
Long: 103° 28' 49.331 W
Pad GL: 3426.00
KB: WELL @ 3446.00usft (Patterson 444)



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
9755.00	0.88	307.91	9751.86	-17.29	4.85	0.00	0.00	-17.66
9936.80	0.88	307.91	9933.64	-15.58	2.65	0.00	0.00	-15.75
10689.55	90.93	354.81	10406.00	467.14	-46.61	12.00	46.89	469.45
14997.84	90.93	354.81	10336.00	4757.19	-436.33	0.00	0.00	4777.16

WELL DETAILS: No. 1H

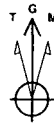
+N/-S	+E/-W	Northing	Ground Level:	3426.00	Eastng	Latitude	Longitude
0.00	0.00	478365.40	763518.40	32° 18' 44.137 N	103° 28' 49.331 W		

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude
Antelope 9 No. 1H TD/PBHL	10336.00	4757.19	-436.33	483122.54	763082.07	32° 19' 31.244 N	103° 28' 53.974 W

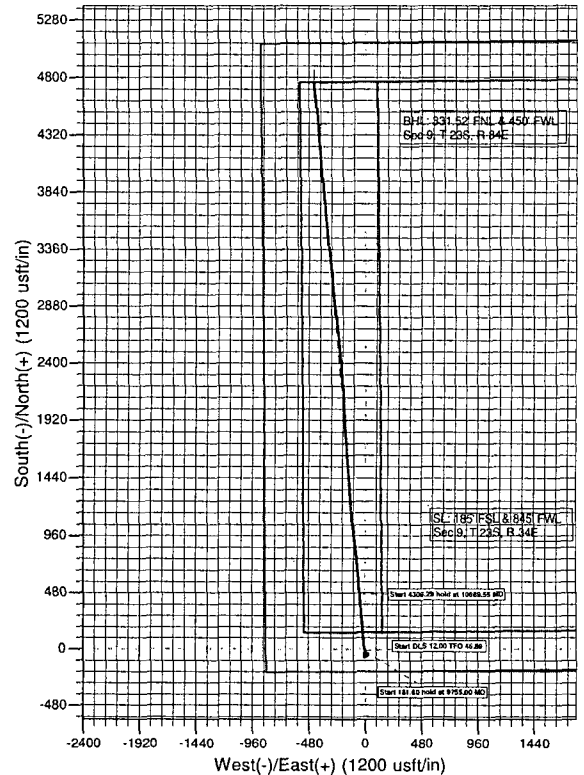
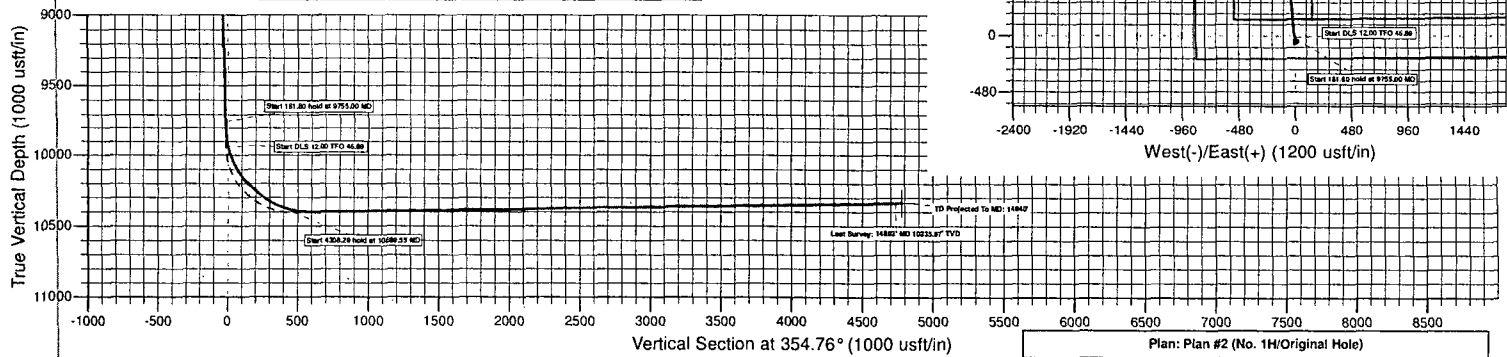
PROJECT DETAILS: Lea County, NM

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



Azimuths to Grid North
True North: -0.46°
Magnetic North: 5.63°
Magnetic Field
Strength: 48299.45nT
Dip Angle: 60.19°
Date: 03/31/2015
Model: IGRF2010

NOTE: All Lease lines and Hard lines are estimates only
and are subject to the customers' approval.



Plan: Plan #2 (No. 1H/Original Hole)
Created By: Chris LeMaster Date: 14:18, April 30 2015

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well No. 1H
Project:	Lea County, NM	TVD Reference:	WELL @ 3446.00usft (Patterson 444)
Site:	Antelope 9 B2MD State COM	MD Reference:	WELL @ 3446.00usft (Patterson 444)
Well:	No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell D

Project	Lea County, NM		
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		Using geodetic scale factor

Site	Antelope 9 B2MD State COM				
Site Position:		Northing:	478,365.40 usft	Latitude:	32° 18' 44.137 N
From:	Map	Easting:	763,518.40 usft	Longitude:	103° 28' 49.331 W
Position Uncertainty:	3.30 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.46 °

Well	No. 1H					
Well Position	+N/-S	0.00 usft	Northing:	478,365.40 usft	Latitude:	32° 18' 44.137 N
	+E/-W	0.00 usft	Easting:	763,518.40 usft	Longitude:	103° 28' 49.331 W
Position Uncertainty		1.10 usft	Wellhead Elevation:	usft	Ground Level:	3,426.00 usft

Wellbore:	Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/31/15	7.08	60.19	48,299

Design:	Original Hole			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	164.33

Survey Program		Date	04/30/15		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	9,755.00	MS Gyro (Original Hole)	MWD	MWD - Standard	
9,781.00	14,940.00	MWD (Original Hole)	MWD	MWD - Standard	

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Build (°/100usft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00	0.17	77.94	100.00	0.03	0.15	0.01	0.17
	200.00	0.27	79.62	200.00	0.10	0.52	0.04	0.10
	300.00	0.37	103.81	300.00	0.07	1.07	0.22	0.10
	400.00	0.53	100.55	399.99	-0.09	1.84	0.58	0.16
	500.00	0.52	112.67	499.99	-0.35	2.71	1.07	-0.01
	600.00	1.12	165.97	599.98	-1.47	3.36	2.33	0.60
	700.00	1.97	181.50	699.94	-4.14	3.56	4.95	0.85
	800.00	3.16	187.25	799.84	-8.59	3.16	9.13	1.19
	900.00	4.23	191.58	899.63	-14.94	2.08	14.95	1.07
	1,000.00	4.80	194.14	999.32	-22.61	0.31	21.86	0.57

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Well:	No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell D

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Build (°/100usft)	
1,100.00	4.85	193.73	1,098.97	-30.77	-1.71	29.17	0.05	
1,200.00	4.79	195.45	1,198.61	-38.91	-3.83	36.43	-0.06	
1,300.00	4.27	190.65	1,298.30	-46.59	-5.63	43.34	-0.52	
1,400.00	3.41	184.01	1,398.08	-53.21	-6.52	49.47	-0.86	
1,500.00	2.74	172.56	1,497.93	-58.55	-6.42	54.64	-0.67	
1,600.00	2.09	151.99	1,597.85	-62.53	-5.26	58.79	-0.65	
1,700.00	1.13	127.38	1,697.81	-64.74	-3.62	61.36	-0.96	
1,800.00	0.38	101.05	1,797.80	-65.40	-2.51	62.29	-0.75	
1,900.00	0.48	46.94	1,897.79	-65.18	-1.88	62.25	0.10	
2,000.00	0.57	47.75	1,997.79	-64.56	-1.20	61.83	0.09	
2,100.00	0.69	49.98	2,097.78	-63.84	-0.37	61.36	0.12	
2,200.00	0.38	348.90	2,197.78	-63.13	0.02	60.78	-0.31	
2,300.00	0.07	159.53	2,297.78	-62.86	-0.02	60.52	-0.31	
2,400.00	0.13	243.40	2,397.78	-62.96	-0.10	60.60	0.06	
2,500.00	0.14	25.58	2,497.78	-62.91	-0.15	60.53	0.01	
2,600.00	0.58	89.95	2,597.78	-62.79	0.41	60.57	0.44	
2,700.00	0.98	75.14	2,697.77	-62.58	1.74	60.72	0.40	
2,800.00	1.14	62.82	2,797.75	-61.90	3.46	60.53	0.16	
2,900.00	1.87	45.82	2,897.72	-60.31	5.51	59.56	0.73	
3,000.00	1.91	48.14	2,997.66	-58.06	7.92	58.04	0.04	
3,100.00	1.37	67.94	3,097.62	-56.50	10.27	57.17	-0.54	
3,200.00	1.83	70.09	3,197.58	-55.51	12.88	56.92	0.46	
3,300.00	1.89	72.75	3,297.53	-54.47	15.96	56.76	0.06	
3,400.00	1.74	59.13	3,397.48	-53.21	18.84	56.32	-0.15	
3,500.00	1.16	27.05	3,497.45	-51.53	20.60	55.17	-0.58	
3,600.00	1.35	28.56	3,597.43	-49.59	21.62	53.59	0.19	
3,700.00	1.78	20.61	3,697.39	-47.10	22.73	51.49	0.43	
3,800.00	0.87	49.79	3,797.36	-45.16	23.86	49.92	-0.91	
3,900.00	0.59	58.30	3,897.35	-44.40	24.88	49.47	-0.28	
4,000.00	0.39	151.39	3,997.35	-44.42	25.48	49.66	-0.20	
4,100.00	0.22	75.74	4,097.35	-44.68	25.83	49.99	-0.17	
4,200.00	0.27	79.05	4,197.35	-44.58	26.24	50.02	0.05	
4,300.00	0.89	88.85	4,297.34	-44.52	27.25	50.23	0.62	
4,400.00	1.11	51.05	4,397.33	-43.90	28.78	50.04	0.22	
4,500.00	1.07	296.65	4,497.32	-42.87	28.70	49.03	-0.04	
4,600.00	0.89	307.29	4,597.30	-41.98	27.25	47.78	-0.18	
4,700.00	0.79	218.35	4,697.30	-42.05	26.20	47.57	-0.10	
4,800.00	0.46	118.84	4,797.29	-42.79	26.13	48.25	-0.33	
4,900.00	0.70	107.20	4,897.29	-43.16	27.06	48.87	0.24	
5,000.00	0.58	155.94	4,997.28	-43.80	27.85	49.70	-0.12	
5,100.00	0.35	157.59	5,097.28	-44.55	28.17	50.50	-0.23	
5,200.00	0.49	138.41	5,197.28	-45.15	28.57	51.19	0.14	
5,300.00	0.47	166.05	5,297.27	-45.87	28.96	51.99	-0.02	
5,400.00	0.47	177.13	5,397.27	-46.68	29.08	52.80	0.00	

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Well:	No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell D

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Build (°/100usft)	
5,500.00	0.39	190.13	5,497.27	-47.42	29.04	53.50	-0.08	
5,600.00	0.55	214.92	5,597.26	-48.15	28.70	54.11	0.16	
5,700.00	0.51	252.71	5,697.26	-48.68	28.00	54.43	-0.04	
5,800.00	0.36	264.55	5,797.26	-48.84	27.26	54.39	-0.15	
5,900.00	0.48	263.91	5,897.25	-48.91	26.54	54.26	0.12	
6,000.00	0.44	289.71	5,997.25	-48.83	25.76	53.97	-0.04	
6,100.00	0.61	277.77	6,097.25	-48.62	24.87	53.54	0.17	
6,200.00	0.80	281.81	6,197.24	-48.41	23.66	53.00	0.19	
6,300.00	0.71	295.99	6,297.23	-48.00	22.42	52.27	-0.09	
6,400.00	0.71	277.95	6,397.22	-47.64	21.25	51.61	0.00	
6,500.00	0.65	295.11	6,497.22	-47.31	20.12	50.99	-0.06	
6,600.00	0.35	294.45	6,597.21	-46.95	19.33	50.42	-0.30	
6,700.00	0.34	266.35	6,697.21	-46.84	18.75	50.16	-0.01	
6,800.00	0.42	294.60	6,797.21	-46.70	18.12	49.86	0.08	
6,900.00	0.24	265.03	6,897.21	-46.57	17.58	49.59	-0.18	
7,000.00	0.37	249.93	6,997.21	-46.70	17.07	49.57	0.13	
7,100.00	0.44	254.32	7,097.20	-46.91	16.40	49.60	0.07	
7,200.00	0.44	276.71	7,197.20	-46.97	15.65	49.45	0.00	
7,300.00	0.73	269.07	7,297.19	-46.94	14.63	49.14	0.29	
7,400.00	0.55	275.31	7,397.19	-46.90	13.51	48.81	-0.18	
7,500.00	0.77	276.17	7,497.18	-46.79	12.37	48.39	0.22	
7,600.00	0.64	294.61	7,597.17	-46.48	11.19	47.78	-0.13	
7,700.00	0.72	291.04	7,697.17	-46.02	10.10	47.04	0.08	
7,800.00	0.81	297.25	7,797.16	-45.47	8.88	46.18	0.09	
7,900.00	0.63	309.92	7,897.15	-44.80	7.83	45.25	-0.18	
8,000.00	0.53	315.42	7,997.15	-44.12	7.09	44.39	-0.10	
8,100.00	0.56	334.05	8,097.14	-43.35	6.55	43.50	0.03	
8,200.00	0.56	341.06	8,197.14	-42.45	6.18	42.54	0.00	
8,300.00	0.45	330.03	8,297.13	-41.64	5.82	41.67	-0.11	
8,400.00	0.44	332.88	8,397.13	-40.96	5.45	40.91	-0.01	
8,500.00	0.42	340.63	8,497.13	-40.27	5.15	40.17	-0.02	
8,600.00	0.48	322.44	8,597.12	-39.60	4.78	39.41	0.06	
8,700.00	0.45	319.15	8,697.12	-38.97	4.26	38.67	-0.03	
8,800.00	0.70	4.26	8,797.12	-38.06	4.05	37.74	0.25	
8,900.00	1.02	12.07	8,897.10	-36.58	4.28	36.38	0.32	
9,000.00	1.43	17.82	8,997.08	-34.52	4.85	34.55	0.41	
9,100.00	1.64	25.10	9,097.04	-32.04	5.84	32.43	0.21	
9,200.00	1.48	19.19	9,197.01	-29.52	6.87	30.28	-0.16	
9,300.00	1.59	354.98	9,296.97	-26.92	7.18	27.86	0.11	
9,400.00	1.59	337.97	9,396.94	-24.25	6.53	25.12	0.00	
9,500.00	1.18	0.84	9,496.91	-21.94	6.03	22.75	-0.41	
9,600.00	1.31	355.40	9,596.88	-19.77	5.95	20.64	0.13	
9,700.00	0.94	327.91	9,696.86	-17.93	5.42	18.73	-0.37	
9,755.00	0.88	307.91	9,751.86	-17.29	4.85	17.96	-0.11	
9,781.00	1.10	317.60	9,777.85	-16.99	4.53	17.58	0.85	

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell D

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Build ("/100usft)
9,800.00	1.10	316.40	9,796.85	-16.72	4.28	17.25	0.00
9,831.00	2.50	335.60	9,827.83	-15.89	3.79	16.32	4.52
9,863.00	5.50	342.40	9,859.75	-13.79	3.04	14.10	9.37
9,895.00	8.70	343.90	9,891.50	-10.00	1.91	10.14	10.00
9,926.00	12.80	347.90	9,921.95	-4.39	0.53	4.37	13.23
9,958.00	15.90	349.90	9,952.95	3.39	-0.98	-3.53	9.69
9,990.00	18.20	349.20	9,983.54	12.62	-2.68	-12.88	7.19
10,021.00	21.10	349.90	10,012.73	22.87	-4.57	-23.25	9.35
10,053.00	24.50	351.10	10,042.23	35.10	-6.61	-35.58	10.62
10,085.00	27.20	352.30	10,071.03	48.91	-8.61	-49.41	8.44
10,116.00	30.60	353.00	10,098.16	63.76	-10.52	-64.24	10.97
10,148.00	34.30	353.60	10,125.16	80.81	-12.52	-81.19	11.56
10,180.00	37.30	354.00	10,151.11	99.42	-14.54	-99.65	9.37
10,211.00	40.80	355.10	10,175.18	118.86	-16.39	-118.87	11.29
10,243.00	43.80	355.50	10,198.85	140.32	-18.15	-140.01	9.37
10,275.00	45.60	356.30	10,221.59	162.77	-19.76	-162.06	5.62
10,306.00	47.20	354.70	10,242.97	185.15	-21.52	-184.08	5.16
10,338.00	48.90	354.80	10,264.36	208.85	-23.70	-207.48	5.31
10,370.00	52.00	354.40	10,284.73	233.41	-26.02	-231.76	9.69
10,401.00	56.90	354.10	10,302.75	258.50	-28.55	-256.60	15.81
10,433.00	60.40	354.40	10,319.40	285.68	-31.29	-283.51	10.94
10,465.00	62.60	354.30	10,334.67	313.67	-34.06	-311.20	6.87
10,496.00	66.50	354.50	10,347.99	341.52	-36.79	-338.76	12.58
10,528.00	69.50	354.30	10,359.97	371.04	-39.68	-367.97	9.37
10,560.00	71.60	355.50	10,370.63	401.10	-42.36	-397.63	6.56
10,592.00	74.10	356.20	10,380.06	431.59	-44.57	-427.59	7.81
10,623.00	78.00	355.90	10,387.53	461.60	-46.65	-457.04	12.58
10,655.00	81.80	356.10	10,393.15	493.02	-48.84	-487.89	11.87
10,687.00	85.30	356.40	10,396.74	524.74	-50.92	-518.99	10.94
10,713.00	87.30	356.40	10,398.42	550.64	-52.55	-544.36	7.69
10,814.00	90.60	354.00	10,400.27	651.24	-61.00	-643.51	3.27
10,846.00	90.60	354.00	10,399.93	683.07	-64.35	-675.06	0.00
10,941.00	90.60	353.40	10,398.94	777.49	-74.77	-768.78	0.00
11,036.00	91.50	352.60	10,397.20	871.76	-86.35	-862.68	0.95
11,131.00	91.60	353.40	10,394.63	966.02	-97.92	-956.56	0.11
11,226.00	90.90	354.00	10,392.56	1,060.42	-108.34	-1,050.27	-0.74
11,321.00	89.80	354.80	10,391.97	1,154.96	-117.61	-1,143.80	-1.16
11,416.00	90.40	355.80	10,391.81	1,249.64	-125.40	-1,237.06	0.63
11,511.00	91.10	355.50	10,390.57	1,344.36	-132.60	-1,330.20	0.74
11,606.00	91.70	355.10	10,388.24	1,439.01	-140.38	-1,423.44	0.63
11,701.00	90.70	355.70	10,386.25	1,533.68	-148.00	-1,516.65	-1.05
11,796.00	90.70	355.60	10,385.09	1,628.40	-155.20	-1,609.79	0.00
11,892.00	90.00	355.50	10,384.51	1,724.11	-162.65	-1,703.95	-0.73
11,987.00	90.50	355.90	10,384.09	1,818.84	-169.78	-1,797.09	0.53

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Project:	Lea County, NM	TVD Reference:	WELL @ 3446.00usft (Patterson 444)
Site:	Antelope 9 B2MD State COM	MD Reference:	WELL @ 3446.00usft (Patterson 444)
Well:	No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell D

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Build (°/100usft)	
12,082.00	90.50	356.10	10,383.26	1,913.61	-176.40	-1,890.12	0.00	
12,177.00	90.10	356.40	10,382.77	2,008.40	-182.62	-1,983.07	-0.42	
12,272.00	91.00	358.30	10,381.85	2,103.29	-187.01	-2,075.61	0.95	
12,367.00	92.00	356.90	10,379.37	2,198.17	-190.98	-2,168.04	1.05	
12,462.00	92.60	355.50	10,375.56	2,292.88	-197.27	-2,260.93	0.63	
12,557.00	92.30	354.80	10,371.49	2,387.46	-205.30	-2,354.16	-0.32	
12,652.00	91.00	353.50	10,368.76	2,481.92	-214.98	-2,447.72	-1.37	
12,747.00	90.20	354.00	10,367.76	2,576.35	-225.32	-2,541.43	-0.84	
12,842.00	91.50	354.00	10,366.35	2,670.82	-235.25	-2,635.07	1.37	
12,938.00	89.80	353.90	10,365.27	2,766.27	-245.37	-2,729.71	-1.77	
13,033.00	90.00	352.40	10,365.43	2,860.59	-256.70	-2,823.58	0.21	
13,128.00	90.60	353.60	10,364.93	2,954.88	-268.27	-2,917.49	0.63	
13,223.00	91.40	355.30	10,363.28	3,049.41	-277.46	-3,011.00	0.84	
13,318.00	91.70	354.80	10,360.71	3,144.03	-285.65	-3,104.30	0.32	
13,413.00	90.40	354.00	10,358.97	3,238.55	-294.92	-3,197.82	-1.37	
13,507.00	90.90	353.60	10,357.90	3,332.00	-305.07	-3,290.53	0.53	
13,602.00	91.20	354.40	10,356.16	3,426.46	-315.00	-3,384.17	0.32	
13,698.00	89.90	354.40	10,355.24	3,521.99	-324.37	-3,478.68	-1.35	
13,793.00	89.80	354.30	10,355.49	3,616.53	-333.72	-3,572.23	-0.11	
13,888.00	90.70	354.70	10,355.07	3,711.09	-342.83	-3,665.74	0.95	
13,983.00	91.40	355.10	10,353.33	3,805.70	-351.27	-3,759.11	0.74	
14,078.00	92.00	354.40	10,350.51	3,900.26	-359.96	-3,852.50	0.63	
14,173.00	90.60	354.90	10,348.36	3,994.82	-368.81	-3,945.93	-1.47	
14,268.00	91.60	355.40	10,346.53	4,089.46	-376.84	-4,039.22	1.05	
14,363.00	90.40	355.10	10,344.87	4,184.12	-384.71	-4,132.49	-1.26	
14,458.00	91.20	355.60	10,343.55	4,278.79	-392.41	-4,225.72	0.84	
14,553.00	90.30	355.00	10,342.30	4,373.47	-400.19	-4,318.98	-0.95	
14,648.00	91.30	355.90	10,340.98	4,468.15	-407.73	-4,412.18	1.05	
14,743.00	90.90	354.80	10,339.15	4,562.82	-415.43	-4,505.41	-0.42	
14,839.00	91.50	353.70	10,337.14	4,658.32	-425.05	-4,599.95	0.62	
14,893.00	91.00	353.60	10,335.97	4,711.97	-431.02	-4,653.23	-0.93	
14,940.00	91.00	353.60	10,335.15	4,758.67	-436.25	-4,699.61	0.00	

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N/S (usft)	+E/W (usft)	Comment
14,893.00	10,335.97	4,711.97	-431.02	Last Survey: 14893' MD 10335.97' TVD
14,940.00	10,335.15	4,758.67	-436.25	TD Projected To MD: 14940'

Checked By: _____ Approved By: _____ Date: _____