

Unit Petroleum

Reno County, Kansas [NAD 83]

Section 12 T25S-R10W

Hazen Trust 12 #1H

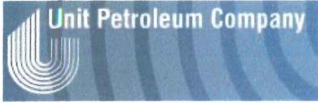
ST01

Design: ST01

Standard Survey Report

25 February, 2014





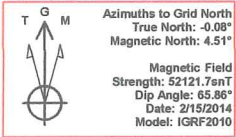
Unit Petroleum
 Project: Reno County, Kansas [NAD 83]
 Site: Section 12 T26S-R10W
 Well: Hazen Trust 12 #1H
 Wellbore: ST01
 Design: ST01 Design #1
 Lat: 37° 58' 35.930 N
 Long: 98° 21' 50.681 W
 Pad GL: 1718.00
 KB: 14' KB @ 1732.00usft (UDI 331)



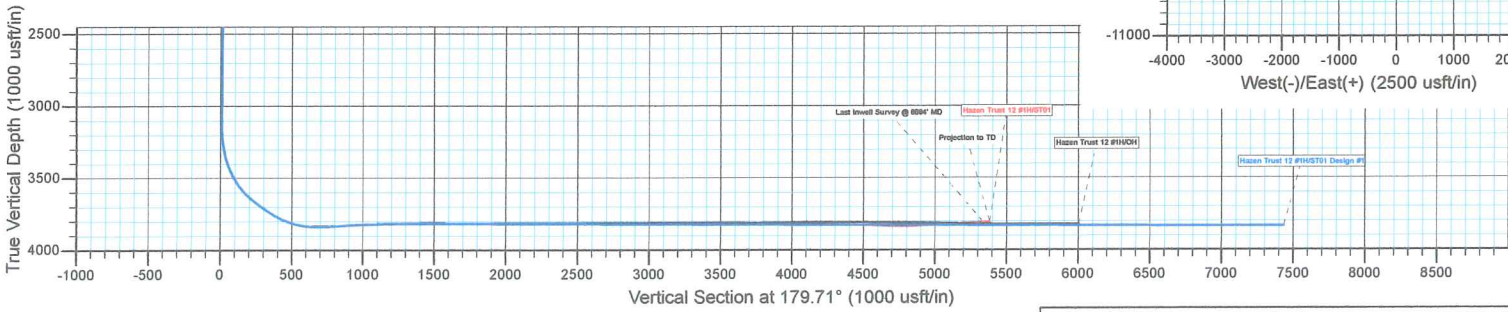
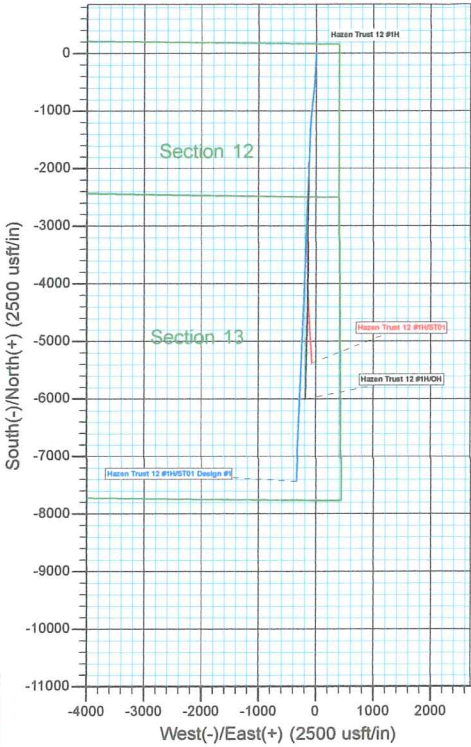
SECTION DETAILS								
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect
5581.00	90.00	182.30	3816.97	-2037.15	-131.39	0.00	0.00	2036.45
5593.67	89.81	182.30	3816.99	-2049.80	-131.90	1.50	-160.00	2049.11
10993.85	89.61	182.30	3834.86	-7435.42	-348.21	0.00	0.00	7435.56

WELL DETAILS: Hazen Trust 12 #1H						
+N-S	+E-W	Northing	Ground Level: Easting	1718.00 Latitude	Longitude	Slot
0.00	0.00	1789356.00	1351511.00	37° 58' 35.930 N	98° 21' 50.681 W	

PROJECT DETAILS: Reno County, Kansas [NAD 83]
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Kansas Southern Zone
 System Datum: Mean Sea Level



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



Plan: ST01 Design #1 (Hazen Trust 12 #1H/ST01)
 Created By: Derek Stephens Date: 9:51, February 25 2014



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Hazen Trust 12 #1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1732.00usft (UDI 331)
Site:	Section 12 T25S-R10W	MD Reference:	14' KB @ 1732.00usft (UDI 331)
Well:	Hazen Trust 12 #1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.1 Single User Db

Project	Reno County, Kansas [NAD 83]		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Kansas Southern Zone		Using geodetic scale factor

Site	Section 12 T25S-R10W				
Site Position:		Northing:	1,789,356.00 usft	Latitude:	37° 58' 35.930 N
From:	Map	Easting:	1,351,511.00 usft	Longitude:	98° 21' 50.681 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.08 °

Well	Hazen Trust 12 #1H					
Well Position	+N/-S	0.00 usft	Northing:	1,789,356.00 usft	Latitude:	37° 58' 35.930 N
	+E/-W	0.00 usft	Easting:	1,351,511.00 usft	Longitude:	98° 21' 50.681 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	1,718.00 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/15/2014	4.59	65.86	52,122

Design	ST01				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	5,182.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00		179.71

Survey Program	Date	2/25/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
74.23	2,811.25	Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot	
2,999.00	5,182.00	MWD (OH)	MWD	MWD - Standard	
5,242.00	8,929.00	ST01 (ST01)	MWD	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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
74.23	0.69	200.81	74.23	-0.42	-0.16	0.42	0.93	0.93	0.00	
168.61	0.89	215.64	168.60	-1.54	-0.79	1.54	0.30	0.21	15.71	
262.99	0.86	226.29	262.97	-2.63	-1.73	2.62	0.17	-0.03	11.28	
357.37	1.04	200.08	357.34	-3.92	-2.53	3.91	0.49	0.19	-27.77	
451.75	0.52	226.65	451.71	-5.02	-3.14	5.01	0.66	-0.55	28.15	
546.13	0.61	253.85	546.08	-5.46	-3.93	5.44	0.30	0.10	28.82	
640.51	0.51	250.13	640.46	-5.74	-4.81	5.71	0.11	-0.11	-3.94	
734.89	0.41	254.59	734.83	-5.97	-5.53	5.94	0.11	-0.11	4.73	

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Well:	Hazen Trust 12 #1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)
829.27	0.35	255.44	829.21	-6.13	-6.14	6.10	0.06	-0.06	0.90
923.65	0.38	233.17	923.59	-6.39	-6.66	6.36	0.15	0.03	-23.60
1,018.03	0.53	224.75	1,017.97	-6.89	-7.22	6.85	0.17	0.16	-8.92
1,112.41	0.57	185.75	1,112.34	-7.67	-7.58	7.63	0.39	0.04	-41.32
1,206.79	0.55	181.39	1,206.72	-8.59	-7.63	8.55	0.05	-0.02	-4.62
1,301.17	0.34	169.01	1,301.10	-9.32	-7.59	9.28	0.24	-0.22	-13.12
1,395.55	0.39	148.64	1,395.47	-9.86	-7.37	9.83	0.15	0.05	-21.58
1,489.93	0.40	137.79	1,489.85	-10.38	-6.98	10.35	0.08	0.01	-11.50
1,584.31	0.33	147.63	1,584.23	-10.86	-6.62	10.82	0.10	-0.07	10.43
1,678.69	0.39	163.04	1,678.61	-11.39	-6.38	11.36	0.12	0.06	16.33
1,773.07	0.41	136.85	1,772.99	-11.95	-6.05	11.92	0.19	0.02	-27.75
1,867.45	0.25	120.59	1,867.37	-12.30	-5.64	12.27	0.19	-0.17	-17.23
1,961.83	0.30	150.02	1,961.74	-12.62	-5.34	12.59	0.16	0.05	31.18
2,056.21	0.06	169.06	2,056.12	-12.88	-5.21	12.85	0.26	-0.25	20.17
2,150.59	0.05	189.55	2,150.50	-12.97	-5.21	12.94	0.02	-0.01	21.71
2,244.97	0.35	121.13	2,244.88	-13.16	-4.97	13.13	0.35	0.32	-72.49
2,339.35	0.35	56.57	2,339.26	-13.15	-4.48	13.13	0.40	0.00	-68.40
2,433.73	0.66	37.96	2,433.64	-12.56	-3.91	12.54	0.37	0.33	-19.72
2,528.11	0.57	33.22	2,528.01	-11.74	-3.31	11.72	0.11	-0.10	-5.02
2,622.49	0.49	26.84	2,622.39	-10.99	-2.88	10.97	0.11	-0.08	-6.76
2,716.87	0.42	354.50	2,716.77	-10.28	-2.73	10.27	0.28	-0.07	-34.27
2,811.25	0.38	314.96	2,811.14	-9.72	-2.98	9.70	0.29	-0.04	-41.89
2,999.00	0.60	316.60	2,998.89	-8.56	-4.10	8.54	0.12	0.12	0.87
3,094.00	0.80	320.40	3,093.88	-7.69	-4.86	7.67	0.22	0.21	4.00
3,125.00	0.50	304.80	3,124.88	-7.45	-5.11	7.42	1.11	-0.97	-50.32
3,156.00	1.20	214.30	3,155.87	-7.64	-5.40	7.61	4.21	2.26	-291.94
3,188.00	3.40	195.10	3,187.85	-8.83	-5.84	8.80	7.19	6.88	-60.00
3,219.00	5.50	188.60	3,218.75	-11.19	-6.30	11.16	6.96	6.77	-20.97
3,251.00	7.50	185.10	3,250.54	-14.78	-6.72	14.75	6.37	6.25	-10.94
3,283.00	9.40	182.60	3,282.20	-19.48	-7.02	19.44	6.05	5.94	-7.81
3,314.00	11.60	180.80	3,312.68	-25.12	-7.18	25.08	7.17	7.10	-5.81
3,346.00	14.10	180.60	3,343.87	-32.24	-7.27	32.20	7.81	7.81	-0.63
3,377.00	16.80	181.10	3,373.75	-40.49	-7.39	40.46	8.72	8.71	1.61
3,409.00	19.70	181.50	3,404.14	-50.51	-7.62	50.47	9.07	9.06	1.25
3,441.00	22.60	181.60	3,433.98	-62.05	-7.93	62.01	9.06	9.06	0.31
3,472.00	25.70	181.80	3,462.26	-74.73	-8.31	74.68	10.00	10.00	0.65
3,504.00	28.80	181.90	3,490.71	-89.37	-8.79	89.32	9.69	9.69	0.31
3,534.00	32.00	182.50	3,516.58	-104.54	-9.37	104.49	10.71	10.67	2.00
3,566.00	35.30	182.80	3,543.21	-122.25	-10.19	122.19	10.33	10.31	0.94
3,597.00	38.80	182.80	3,567.95	-140.90	-11.11	140.84	11.29	11.29	0.00
3,629.00	41.80	183.00	3,592.35	-161.57	-12.15	161.50	9.38	9.38	0.63
3,661.00	45.00	182.90	3,615.60	-183.52	-13.28	183.45	10.00	10.00	-0.31
3,692.00	48.70	182.60	3,636.80	-206.11	-14.37	206.03	11.96	11.94	-0.97



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Well:	Hazen Trust 12 #1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.1 Single User Db

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)	
3,724.00	52.50	182.90	3,657.10	-230.80	-15.56	230.72	11.90	11.88	0.94	
3,756.00	54.20	183.50	3,676.21	-256.44	-16.99	256.35	5.52	5.31	1.88	
3,787.00	54.50	183.60	3,694.27	-281.58	-18.55	281.48	1.00	0.97	0.32	
3,819.00	54.80	183.60	3,712.79	-307.63	-20.19	307.52	0.94	0.94	0.00	
3,851.00	55.30	183.70	3,731.12	-333.80	-21.86	333.69	1.58	1.56	0.31	
3,882.00	57.80	182.90	3,748.21	-359.62	-23.34	359.50	8.35	8.06	-2.58	
3,914.00	61.00	182.60	3,764.49	-387.13	-24.66	387.00	10.03	10.00	-0.94	
3,946.00	64.50	182.80	3,779.14	-415.54	-26.01	415.41	10.95	10.94	0.63	
3,977.00	68.10	182.90	3,791.60	-443.89	-27.42	443.75	11.62	11.61	0.32	
4,069.00	76.30	184.60	3,819.70	-531.22	-33.17	531.04	9.08	8.91	1.85	
4,099.00	79.30	185.30	3,826.04	-560.43	-35.70	560.24	10.26	10.00	2.33	
4,130.00	82.20	185.30	3,831.02	-590.89	-38.53	590.69	9.35	9.35	0.00	
4,161.00	85.20	185.80	3,834.43	-621.55	-41.51	621.34	9.81	9.68	1.61	
4,192.00	88.20	186.70	3,836.21	-652.32	-44.88	652.08	10.10	9.68	2.90	
4,254.00	91.90	187.20	3,836.16	-713.85	-52.38	713.57	6.02	5.97	0.81	
4,316.00	92.80	187.30	3,833.61	-775.30	-60.20	774.99	1.46	1.45	0.16	
4,377.00	93.80	187.10	3,830.10	-835.72	-67.83	835.36	1.67	1.64	-0.33	
4,439.00	93.10	185.90	3,826.37	-897.21	-74.83	896.82	2.24	-1.13	-1.94	
4,501.00	91.80	185.30	3,823.72	-958.85	-80.88	958.43	2.31	-2.10	-0.97	
4,563.00	91.80	185.00	3,821.77	-1,020.57	-86.44	1,020.12	0.48	0.00	-0.48	
4,625.00	92.60	185.40	3,819.39	-1,082.27	-92.06	1,081.79	1.44	1.29	0.65	
4,686.00	91.90	184.60	3,817.00	-1,142.99	-97.37	1,142.48	1.74	-1.15	-1.31	
4,747.00	90.90	184.20	3,815.51	-1,203.79	-102.05	1,203.26	1.77	-1.64	-0.66	
4,809.00	90.20	183.20	3,814.91	-1,265.66	-106.05	1,265.11	1.97	-1.13	-1.61	
4,872.00	91.30	183.00	3,814.09	-1,328.56	-109.45	1,327.99	1.77	1.75	-0.32	
4,935.00	90.10	182.50	3,813.32	-1,391.48	-112.48	1,390.90	2.06	-1.90	-0.79	
4,997.00	89.30	181.70	3,813.64	-1,453.44	-114.75	1,452.84	1.82	-1.29	-1.29	
5,058.00	89.70	181.50	3,814.18	-1,514.41	-116.45	1,513.80	0.73	0.66	-0.33	
5,119.00	90.80	181.00	3,813.91	-1,575.40	-117.78	1,574.78	1.98	1.80	-0.82	
5,182.00	88.90	181.30	3,814.07	-1,638.38	-119.05	1,637.76	3.05	-3.02	0.48	
5,242.00	89.80	180.10	3,814.75	-1,698.37	-119.78	1,697.74	2.50	1.50	-2.00	
5,272.00	89.50	181.20	3,814.94	-1,728.37	-120.12	1,727.74	3.80	-1.00	3.67	
5,302.00	88.90	182.10	3,815.36	-1,758.35	-120.98	1,757.72	3.61	-2.00	3.00	
5,334.00	89.20	182.20	3,815.89	-1,790.32	-122.18	1,789.68	0.99	0.94	0.31	
5,396.00	89.70	182.20	3,816.48	-1,852.28	-124.56	1,851.62	0.81	0.81	0.00	
5,457.00	90.30	182.50	3,816.48	-1,913.22	-127.06	1,912.56	1.10	0.98	0.49	
5,519.00	89.40	181.60	3,816.65	-1,975.18	-129.28	1,974.50	2.05	-1.45	-1.45	
5,581.00	90.00	182.30	3,816.97	-2,037.15	-131.39	2,036.45	1.49	0.97	1.13	
5,642.00	89.00	182.00	3,817.50	-2,098.10	-133.68	2,097.40	1.71	-1.64	-0.49	
5,704.00	89.20	182.70	3,818.48	-2,160.04	-136.22	2,159.32	1.17	0.32	1.13	
5,767.00	89.20	182.90	3,819.36	-2,222.96	-139.30	2,222.22	0.32	0.00	0.32	
5,830.00	89.90	182.90	3,819.85	-2,285.87	-142.49	2,285.12	1.11	1.11	0.00	
5,892.00	91.00	183.00	3,819.36	-2,347.79	-145.68	2,347.02	1.78	1.77	0.16	

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5,954.00	90.60	182.90	3,818.50	-2,409.70	-148.87	2,408.92	0.67	-0.65	-0.16
6,016.00	90.20	182.10	3,818.06	-2,471.64	-151.57	2,470.84	1.44	-0.65	-1.29
6,079.00	89.50	181.60	3,818.23	-2,534.61	-153.61	2,533.80	1.37	-1.11	-0.79
6,141.00	90.40	181.80	3,818.28	-2,596.58	-155.44	2,595.76	1.49	1.45	0.32
6,202.00	90.10	182.20	3,818.02	-2,657.54	-157.57	2,656.71	0.82	-0.49	0.66
6,263.00	89.30	181.90	3,818.34	-2,718.50	-159.76	2,717.66	1.40	-1.31	-0.49
6,325.00	89.80	182.10	3,818.82	-2,780.46	-161.92	2,779.61	0.87	0.81	0.32
6,388.00	90.70	181.90	3,818.55	-2,843.42	-164.12	2,842.55	1.46	1.43	-0.32
6,450.00	89.60	180.90	3,818.39	-2,905.40	-165.63	2,904.52	2.40	-1.77	-1.61
6,512.00	89.80	180.80	3,818.71	-2,967.39	-166.55	2,966.51	0.36	0.32	-0.16
6,575.00	90.50	180.00	3,818.55	-3,030.39	-166.99	3,029.51	1.69	1.11	-1.27
6,638.00	89.00	179.60	3,818.82	-3,093.39	-166.77	3,092.50	2.46	-2.38	-0.63
6,700.00	88.90	179.20	3,819.96	-3,155.37	-166.12	3,154.49	0.66	-0.16	-0.65
6,762.00	89.20	178.70	3,820.99	-3,217.35	-164.99	3,216.48	0.94	0.48	-0.81
6,825.00	89.60	179.30	3,821.65	-3,280.34	-163.89	3,279.47	1.14	0.63	0.95
6,887.00	90.90	179.70	3,821.37	-3,342.34	-163.35	3,341.47	2.19	2.10	0.65
6,949.00	89.80	178.70	3,821.00	-3,404.33	-162.48	3,403.46	2.40	-1.77	-1.61
7,011.00	89.60	178.70	3,821.32	-3,466.31	-161.07	3,465.45	0.32	-0.32	0.00
7,073.00	89.70	178.60	3,821.70	-3,528.29	-159.61	3,527.44	0.23	0.16	-0.16
7,134.00	90.90	178.70	3,821.38	-3,589.27	-158.18	3,588.43	1.97	1.97	0.16
7,196.00	90.90	178.90	3,820.41	-3,651.25	-156.88	3,650.41	0.32	0.00	0.32
7,256.00	89.60	178.60	3,820.14	-3,711.24	-155.57	3,710.40	2.22	-2.17	-0.50
7,318.00	90.00	178.70	3,820.36	-3,773.22	-154.11	3,772.39	0.67	0.65	0.16
7,379.00	90.00	178.70	3,820.36	-3,834.20	-152.72	3,833.38	0.00	0.00	0.00
7,441.00	90.30	178.20	3,820.20	-3,896.18	-151.05	3,895.36	0.94	0.48	-0.81
7,502.00	90.20	178.40	3,819.93	-3,957.15	-149.24	3,956.35	0.37	-0.16	0.33
7,564.00	90.20	178.20	3,819.72	-4,019.12	-147.40	4,018.33	0.32	0.00	-0.32
7,625.00	90.00	178.40	3,819.61	-4,080.10	-145.59	4,079.31	0.46	-0.33	0.33
7,683.00	90.40	177.50	3,819.41	-4,138.06	-143.51	4,137.28	1.70	0.69	-1.55
7,745.00	88.90	177.80	3,819.79	-4,200.00	-140.97	4,199.24	2.47	-2.42	0.48
7,807.00	89.00	178.10	3,820.92	-4,261.95	-138.76	4,261.20	0.51	0.16	0.48
7,869.00	88.90	178.50	3,822.06	-4,323.92	-136.92	4,323.17	0.66	-0.16	0.65
7,930.00	88.80	177.40	3,823.28	-4,384.86	-134.73	4,384.13	1.81	-0.16	-1.80
7,992.00	88.30	177.20	3,824.85	-4,446.77	-131.81	4,446.05	0.87	-0.81	-0.32
8,054.00	88.00	177.20	3,826.85	-4,508.67	-128.79	4,507.96	0.48	-0.48	0.00
8,115.00	88.30	176.90	3,828.82	-4,569.56	-125.65	4,568.86	0.70	0.49	-0.49
8,177.00	88.20	177.00	3,830.72	-4,631.44	-122.35	4,630.76	0.23	-0.16	0.16
8,238.00	88.70	177.20	3,832.37	-4,692.34	-119.27	4,691.67	0.88	0.82	0.33
8,300.00	89.80	177.00	3,833.18	-4,754.25	-116.13	4,753.60	1.80	1.77	-0.32
8,361.00	91.60	176.40	3,832.43	-4,815.14	-112.62	4,814.51	3.11	2.95	-0.98
8,423.00	91.60	175.60	3,830.70	-4,876.97	-108.30	4,876.36	1.29	0.00	-1.29
8,484.00	92.60	175.70	3,828.47	-4,937.75	-103.67	4,937.16	1.65	1.64	0.16
8,547.00	94.30	175.20	3,824.67	-5,000.44	-98.69	4,999.87	2.81	2.70	-0.79
8,609.00	92.70	177.00	3,820.89	-5,062.17	-94.48	5,061.63	3.88	-2.58	2.90



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Hazen Trust 12 #1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1732.00usft (UDI 331)
Site:	Section 12 T25S-R10W	MD Reference:	14' KB @ 1732.00usft (UDI 331)
Well:	Hazen Trust 12 #1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.1 Single User Db

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)	
8,670.00	92.90	177.10	3,817.91	-5,123.02	-91.34	5,122.49	0.37	0.33	0.16	
8,732.00	92.80	176.50	3,814.83	-5,184.85	-87.89	5,184.33	0.98	-0.16	-0.97	
8,794.00	92.90	177.00	3,811.74	-5,246.67	-84.37	5,246.17	0.82	0.16	0.81	
8,856.00	92.70	177.10	3,808.71	-5,308.51	-81.19	5,308.03	0.36	-0.32	0.16	
8,884.00	92.70	177.10	3,807.40	-5,336.45	-79.77	5,335.97	0.00	0.00	0.00	
Last Inwell Survey @ 8884' MD										
8,929.00	92.70	177.10	3,805.28	-5,381.34	-77.50	5,380.88	0.00	0.00	0.00	
Projection to TD										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
8,884.00	3,807.40	-5,336.45	-79.77	Last Inwell Survey @ 8884' MD	
8,929.00	3,805.28	-5,381.34	-77.50	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____