

Unit Petroleum

Reno County, Kansas [NAD 83]

Section 27 T25S-R10W

Stewart 27 #1H

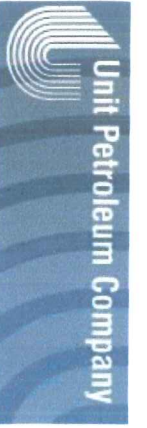
OH

Design: OH

Standard Survey Report

11 February, 2014





Unit Petroleum
 Project: Reno County, Kansas [NAD 83]
 Site: Section 27, T25S, R10W
 Well: Stewart 27 #1H
 Wellbore: OH
 Design: Design #6
 Lat: 37° 51' 10.377 N
 Long: 98° 24' 53.433 W
 Pad GL: 1745.00
 KB: 20' KB @ 1765.00usft (UDI 303)

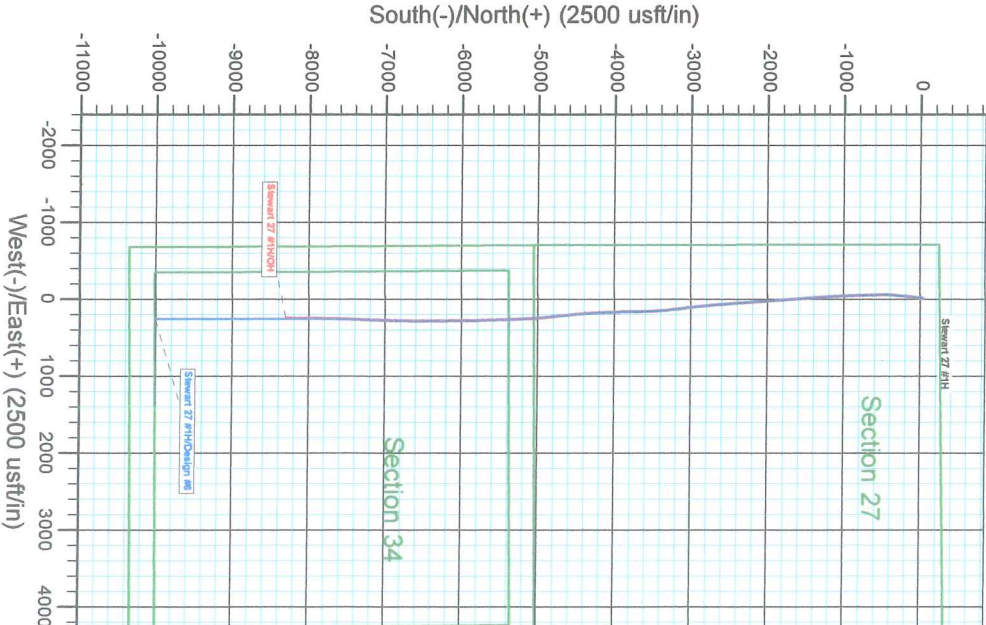
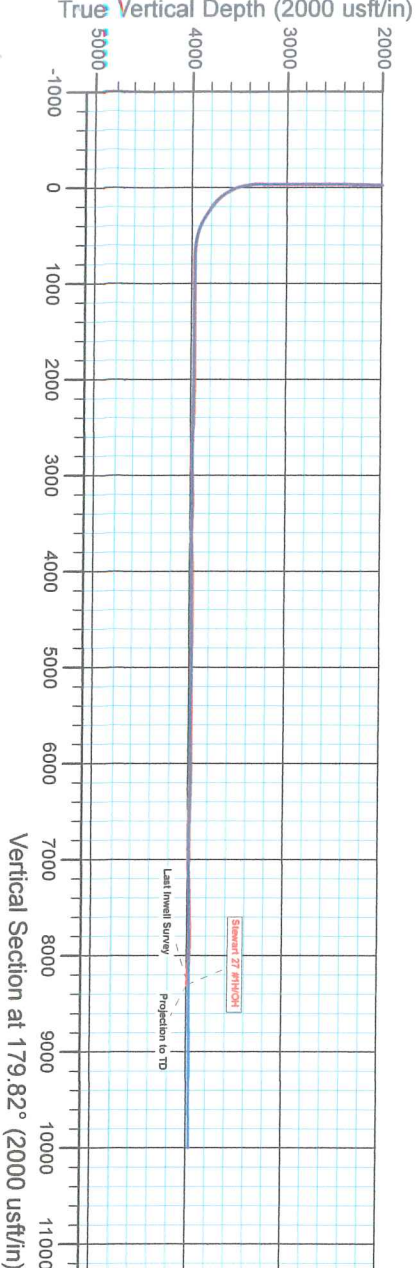
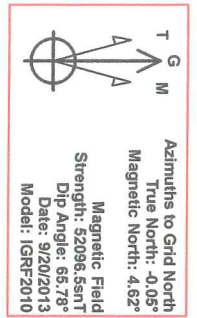


SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dip	TFace	VSect	
11224.00	90.00	181.20	3978.771	-7496.16	259.25	0.00	0.00	7496.93	
11258.00	90.00	181.20	3978.771	-7527.15	258.60	0.00	0.00	7527.93	
11259.23	90.13	180.00	3978.666	-7587.38	258.18	0.00	-83.82	7568.16	
13732.00	90.13	180.00	3973.13	-10004.14	258.18	0.00	0.00	10004.90	

WELL DETAILS: Stewart 27 #1H									
+N/-S	+E/-W	Northing	Ground Level:	1745.00	Latitude	Longitude	Slot		
0.00	0.00	1744272.00	Easting	1336920.00	37° 51' 10.377 N	98° 24' 53.433 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.



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Stewart 27 #1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	20' KB @ 1765.00usft (UDI 303)
Site:	Section 27 T25S-R10W	MD Reference:	20' KB @ 1765.00usft (UDI 303)
Well:	Stewart 27 #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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 27 T25S-R10W				
Site Position:		Northing:	1,744,272.00 usft	Latitude:	37° 51' 10.377 N
From:	Map	Easting:	1,336,920.00 usft	Longitude:	98° 24' 53.433 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.05 °

Well	Stewart 27 #1H					
Well Position	+N/-S	0.00 usft	Northing:	1,744,272.00 usft	Latitude:	37° 51' 10.377 N
	+E/-W	0.00 usft	Easting:	1,336,920.00 usft	Longitude:	98° 24' 53.433 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	1,745.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/20/2013	4.68	65.78	52,096

Design	OH				
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	179.82	

Survey Program	Date 2/11/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
157.76	3,259.43	Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot
3,321.00	12,034.00	MWD (OH)	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	
157.76	1.13	342.47	157.75	1.48	-0.47	-1.48	0.72	0.72	0.00	
251.75	0.73	329.50	251.73	2.88	-1.05	-2.89	0.48	-0.43	-13.80	
345.74	0.83	313.58	345.71	3.87	-1.85	-3.87	0.25	0.11	-16.94	
439.73	0.89	306.70	439.69	4.77	-2.93	-4.78	0.13	0.06	-7.32	
533.72	1.04	325.99	533.67	5.92	-3.99	-5.93	0.38	0.16	20.52	
627.71	1.07	319.41	627.64	7.29	-5.04	-7.31	0.13	0.03	-7.00	
721.70	1.10	331.14	721.61	8.75	-6.04	-8.77	0.24	0.03	12.48	
815.69	1.09	347.11	815.59	10.41	-6.68	-10.43	0.32	-0.01	16.99	
909.68	0.99	332.89	909.56	12.00	-7.25	-12.03	0.29	-0.11	-15.13	

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Well:	Stewart 27 #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
1,003.67	0.90	346.09	1,003.54	13.44	-7.80	-13.47	0.25	-0.10	14.04
1,097.66	1.00	335.52	1,097.51	14.91	-8.31	-14.93	0.21	0.11	-11.25
1,191.65	0.80	358.66	1,191.49	16.31	-8.67	-16.33	0.44	-0.21	24.62
1,285.64	0.74	7.60	1,285.47	17.57	-8.60	-17.59	0.14	-0.06	9.51
1,379.63	0.69	339.30	1,379.46	18.70	-8.72	-18.72	0.38	-0.05	-30.11
1,473.62	0.67	305.15	1,473.44	19.54	-9.37	-19.57	0.43	-0.02	-36.33
1,567.61	0.62	275.76	1,567.43	19.91	-10.33	-19.94	0.35	-0.05	-31.27
1,661.60	0.93	308.31	1,661.41	20.43	-11.43	-20.47	0.56	0.33	34.63
1,755.59	0.77	328.68	1,755.39	21.45	-12.36	-21.48	0.36	-0.17	21.67
1,849.58	0.81	349.05	1,849.37	22.64	-12.81	-22.68	0.30	0.04	21.67
1,943.57	0.92	2.42	1,943.35	24.04	-12.91	-24.08	0.24	0.12	14.22
2,037.56	0.86	6.45	2,037.33	25.50	-12.80	-25.54	0.09	-0.06	4.29
2,131.55	0.73	22.20	2,131.31	26.75	-12.49	-26.79	0.27	-0.14	16.76
2,225.54	0.60	19.89	2,225.29	27.77	-12.10	-27.81	0.14	-0.14	-2.46
2,319.53	0.44	13.04	2,319.28	28.59	-11.85	-28.62	0.18	-0.17	-7.29
2,413.52	0.53	19.84	2,413.26	29.35	-11.62	-29.38	0.11	0.10	7.23
2,507.51	0.42	26.15	2,507.25	30.06	-11.32	-30.10	0.13	-0.12	6.71
2,601.50	0.44	37.00	2,601.24	30.66	-10.95	-30.70	0.09	0.02	11.54
2,695.49	0.42	27.39	2,695.23	31.26	-10.58	-31.29	0.08	-0.02	-10.22
2,789.48	0.28	26.24	2,789.21	31.77	-10.32	-31.80	0.15	-0.15	-1.22
2,883.47	0.44	59.87	2,883.20	32.15	-9.90	-32.19	0.28	0.17	35.78
2,977.46	0.28	97.72	2,977.19	32.30	-9.36	-32.33	0.30	-0.17	40.27
3,071.45	0.15	45.74	3,071.18	32.36	-9.05	-32.39	0.24	-0.14	-55.30
3,165.44	0.17	344.89	3,165.17	32.58	-8.99	-32.61	0.17	0.02	-64.74
3,259.43	0.25	354.16	3,259.16	32.92	-9.05	-32.95	0.09	0.09	9.86
3,321.00	0.30	179.00	3,320.73	32.89	-9.06	-32.92	0.89	0.08	-284.49
3,353.00	2.70	188.10	3,352.72	32.06	-9.17	-32.09	7.51	7.50	28.44
3,385.00	5.80	189.40	3,384.62	29.72	-9.54	-29.75	9.69	9.69	4.06
3,416.00	8.40	188.20	3,415.38	25.93	-10.12	-25.96	8.40	8.39	-3.87
3,447.00	11.00	186.20	3,445.94	20.75	-10.76	-20.78	8.46	8.39	-6.45
3,479.00	13.80	187.40	3,477.19	13.93	-11.58	-13.96	8.79	8.75	3.75
3,510.00	16.10	188.60	3,507.14	6.01	-12.70	-6.05	7.49	7.42	3.87
3,542.00	19.40	187.60	3,537.61	-3.65	-14.07	3.60	10.36	10.31	-3.13
3,573.00	22.60	186.00	3,566.55	-14.68	-15.37	14.63	10.49	10.32	-5.16
3,605.00	25.70	185.60	3,595.74	-27.70	-16.69	27.65	9.70	9.69	-1.25
3,636.00	29.40	185.80	3,623.22	-41.97	-18.12	41.91	11.94	11.94	0.65
3,667.00	32.80	187.20	3,649.76	-57.87	-19.94	57.81	11.21	10.97	4.52
3,699.00	36.10	187.80	3,676.15	-75.81	-22.30	75.74	10.37	10.31	1.88
3,731.00	40.20	187.80	3,701.31	-95.39	-24.99	95.32	12.81	12.81	0.00
3,762.00	44.30	187.20	3,724.25	-116.06	-27.70	115.97	13.29	13.23	-1.94
3,794.00	48.40	187.10	3,746.33	-139.02	-30.58	138.93	12.81	12.81	-0.31
3,825.00	52.40	186.60	3,766.09	-162.74	-33.43	162.63	12.96	12.90	-1.61
3,857.00	55.00	186.00	3,785.03	-188.37	-36.26	188.25	8.26	8.13	-1.88

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Well:	Stewart 27 #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
3,888.00	55.50	185.90	3,802.70	-213.70	-38.90	213.58	1.63	1.61	-0.32	
3,920.00	55.90	185.80	3,820.73	-240.00	-41.59	239.87	1.28	1.25	-0.31	
3,951.00	56.00	185.70	3,838.09	-265.55	-44.16	265.41	0.42	0.32	-0.32	
3,982.00	56.30	185.40	3,855.36	-291.18	-46.65	291.03	1.26	0.97	-0.97	
4,014.00	58.80	185.10	3,872.53	-318.07	-49.12	317.91	7.85	7.81	-0.94	
4,046.00	62.20	184.70	3,888.28	-345.81	-51.50	345.65	10.68	10.63	-1.25	
4,077.00	65.50	184.00	3,901.94	-373.56	-53.61	373.39	10.84	10.65	-2.26	
4,108.00	68.20	182.80	3,914.13	-402.01	-55.30	401.83	9.41	8.71	-3.87	
4,140.00	70.90	181.30	3,925.31	-431.97	-56.36	431.79	9.51	8.44	-4.69	
4,172.00	72.90	180.70	3,935.25	-462.38	-56.89	462.20	6.50	6.25	-1.88	
4,203.00	74.90	180.20	3,943.85	-492.16	-57.13	491.98	6.64	6.45	-1.61	
4,234.00	76.90	179.70	3,951.40	-522.22	-57.10	522.04	6.64	6.45	-1.61	
4,265.00	79.10	178.60	3,957.84	-552.54	-56.65	552.36	7.90	7.10	-3.55	
4,296.00	81.80	178.00	3,962.99	-583.09	-55.74	582.92	8.92	8.71	-1.94	
4,328.00	85.90	177.80	3,966.41	-614.88	-54.58	614.71	12.83	12.81	-0.63	
4,411.00	90.20	178.30	3,969.24	-697.77	-51.75	697.60	5.22	5.18	0.60	
4,443.00	90.50	178.30	3,969.04	-729.75	-50.81	729.59	0.94	0.94	0.00	
4,538.00	89.10	177.90	3,969.37	-824.70	-47.66	824.54	1.53	-1.47	-0.42	
4,634.00	89.70	178.00	3,970.38	-920.63	-44.22	920.48	0.63	0.63	0.10	
4,729.00	87.60	177.10	3,972.62	-1,015.51	-40.16	1,015.38	2.40	-2.21	-0.95	
4,825.00	89.30	177.10	3,975.21	-1,111.35	-35.31	1,111.23	1.77	1.77	0.00	
4,920.00	90.00	176.50	3,975.79	-1,206.20	-30.00	1,206.10	0.97	0.74	-0.63	
5,014.00	91.40	176.10	3,974.65	-1,299.99	-23.94	1,299.91	1.55	1.49	-0.43	
5,110.00	89.80	176.40	3,973.64	-1,395.78	-17.66	1,395.71	1.70	-1.67	0.31	
5,206.00	91.70	175.80	3,972.38	-1,491.54	-11.13	1,491.50	2.08	1.98	-0.63	
5,298.00	90.50	175.50	3,970.62	-1,583.26	-4.16	1,583.24	1.34	-1.30	-0.33	
5,391.00	90.10	176.20	3,970.13	-1,676.01	2.57	1,676.01	0.87	-0.43	0.75	
5,483.00	88.40	176.00	3,971.34	-1,767.79	8.83	1,767.81	1.86	-1.85	-0.22	
5,576.00	89.30	175.80	3,973.20	-1,860.53	15.48	1,860.57	0.99	0.97	-0.22	
5,669.00	89.40	176.10	3,974.26	-1,953.29	22.05	1,953.35	0.34	0.11	0.32	
5,761.00	90.20	175.80	3,974.58	-2,045.06	28.54	2,045.14	0.93	0.87	-0.33	
5,854.00	89.20	175.70	3,975.07	-2,137.80	35.44	2,137.90	1.08	-1.08	-0.11	
5,946.00	89.10	175.80	3,976.43	-2,229.54	42.25	2,229.66	0.15	-0.11	0.11	
6,038.00	90.00	175.60	3,977.15	-2,321.28	49.15	2,321.42	1.00	0.98	-0.22	
6,131.00	89.00	176.20	3,977.96	-2,414.03	55.80	2,414.20	1.25	-1.08	0.65	
6,223.00	88.60	176.50	3,979.89	-2,505.83	61.66	2,506.01	0.54	-0.43	0.33	
6,316.00	88.40	175.60	3,982.33	-2,598.57	68.06	2,598.77	0.99	-0.22	-0.97	
6,407.00	88.70	174.00	3,984.63	-2,689.17	76.30	2,689.39	1.79	0.33	-1.76	
6,500.00	90.20	174.20	3,985.52	-2,781.67	85.86	2,781.92	1.63	1.61	0.22	
6,593.00	90.80	173.90	3,984.71	-2,874.16	95.50	2,874.45	0.72	0.65	-0.32	
6,685.00	91.90	173.30	3,982.54	-2,965.56	105.75	2,965.88	1.36	1.20	-0.65	
6,778.00	91.20	173.20	3,980.03	-3,057.88	116.68	3,058.23	0.76	-0.75	-0.11	
6,870.00	88.60	174.30	3,980.19	-3,149.33	126.70	3,149.71	3.07	-2.83	1.20	

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6,961.00	89.50	174.20	3,981.70	-3,239.85	135.81	3,240.26	1.00	0.99	-0.11
7,054.00	90.60	173.30	3,981.61	-3,332.30	145.94	3,332.74	1.53	1.18	-0.97
7,147.00	87.50	175.40	3,983.16	-3,424.82	155.09	3,425.29	4.03	-3.33	2.26
7,239.00	88.30	177.90	3,986.53	-3,516.59	160.46	3,517.08	2.85	0.87	2.72
7,331.00	89.80	179.70	3,988.05	-3,608.55	162.39	3,609.04	2.55	1.63	1.96
7,427.00	91.30	179.90	3,987.13	-3,704.54	162.72	3,705.04	1.58	1.56	0.21
7,523.00	92.40	179.20	3,984.03	-3,800.49	163.48	3,800.98	1.36	1.15	-0.73
7,619.00	90.90	177.40	3,981.27	-3,896.40	166.32	3,896.90	2.44	-1.56	-1.88
7,715.00	90.10	177.70	3,980.43	-3,992.31	170.43	3,992.82	0.89	-0.83	0.31
7,810.00	89.30	177.80	3,980.93	-4,087.23	174.16	4,087.76	0.85	-0.84	0.11
7,905.00	90.70	177.10	3,980.93	-4,182.14	178.38	4,182.68	1.65	1.47	-0.74
8,001.00	88.60	177.50	3,981.51	-4,278.02	182.91	4,278.58	2.23	-2.19	0.42
8,097.00	89.70	176.40	3,982.94	-4,373.87	188.01	4,374.44	1.62	1.15	-1.15
8,193.00	90.90	175.60	3,982.44	-4,469.63	194.71	4,470.22	1.50	1.25	-0.83
8,288.00	90.70	174.40	3,981.11	-4,564.26	202.99	4,564.88	1.28	-0.21	-1.26
8,384.00	90.20	173.90	3,980.36	-4,659.76	212.77	4,660.40	0.74	-0.52	-0.52
8,479.00	91.70	172.40	3,978.78	-4,754.06	224.10	4,754.74	2.23	1.58	-1.58
8,575.00	90.60	174.30	3,976.85	-4,849.39	235.21	4,850.11	2.29	-1.15	1.98
8,671.00	89.90	175.90	3,976.43	-4,945.04	243.41	4,945.78	1.82	-0.73	1.67
8,766.00	89.90	176.00	3,976.60	-5,039.80	250.12	5,040.56	0.11	0.00	0.11
8,862.00	89.80	176.90	3,976.85	-5,135.61	256.07	5,136.39	0.94	-0.10	0.94
8,958.00	88.50	177.80	3,978.28	-5,231.50	260.51	5,232.29	1.65	-1.35	0.94
9,054.00	89.50	177.40	3,979.95	-5,327.40	264.53	5,328.20	1.12	1.04	-0.42
9,149.00	89.70	178.40	3,980.61	-5,422.33	268.01	5,423.14	1.07	0.21	1.05
9,245.00	90.20	178.00	3,980.70	-5,518.28	271.02	5,519.11	0.67	0.52	-0.42
9,337.00	91.00	177.60	3,979.73	-5,610.21	274.55	5,611.04	0.97	0.87	-0.43
9,428.00	90.50	178.70	3,978.54	-5,701.15	277.49	5,701.99	1.33	-0.55	1.21
9,520.00	89.80	179.60	3,978.30	-5,793.14	278.86	5,793.99	1.24	-0.76	0.98
9,612.00	90.00	179.10	3,978.46	-5,885.13	279.90	5,885.98	0.59	0.22	-0.54
9,708.00	89.70	178.80	3,978.71	-5,981.12	281.66	5,981.97	0.44	-0.31	-0.31
9,805.00	90.80	178.80	3,978.29	-6,078.09	283.69	6,078.95	1.13	1.13	0.00
9,901.00	89.80	180.10	3,977.79	-6,174.08	284.61	6,174.95	1.71	-1.04	1.35
9,997.00	88.20	180.40	3,979.46	-6,270.06	284.19	6,270.93	1.70	-1.67	0.31
10,093.00	88.40	180.30	3,982.31	-6,366.02	283.61	6,366.88	0.23	0.21	-0.10
10,188.00	88.10	179.40	3,985.21	-6,460.97	283.85	6,461.83	1.00	-0.32	-0.95
10,284.00	87.70	179.80	3,988.73	-6,556.91	284.52	6,557.77	0.59	-0.42	0.42
10,379.00	88.30	179.70	3,992.05	-6,651.85	284.94	6,652.71	0.64	0.63	-0.11
10,475.00	89.20	180.80	3,994.14	-6,747.82	284.52	6,748.68	1.48	0.94	1.15
10,568.00	91.90	182.30	3,993.25	-6,840.77	282.00	6,841.62	3.32	2.90	1.61
10,661.00	90.30	182.50	3,991.46	-6,933.67	278.11	6,934.51	1.73	-1.72	0.22
10,751.00	90.30	182.10	3,990.99	-7,023.60	274.50	7,024.42	0.44	0.00	-0.44
10,845.00	91.80	181.80	3,989.27	-7,117.52	271.30	7,118.34	1.63	1.60	-0.32
10,937.00	91.80	182.30	3,986.38	-7,209.42	268.01	7,210.23	0.54	0.00	0.54
11,033.00	92.40	181.80	3,982.86	-7,305.29	264.58	7,306.09	0.81	0.63	-0.52



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Stewart 27 #1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	20' KB @ 1765.00usft (UDI 303)
Site:	Section 27 T25S-R10W	MD Reference:	20' KB @ 1765.00usft (UDI 303)
Well:	Stewart 27 #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
11,128.00	91.30	181.70	3,979.79	-7,400.20	261.68	7,400.98	1.16	-1.16	-0.11
11,224.00	90.00	181.20	3,978.71	-7,496.16	259.25	7,496.93	1.45	-1.35	-0.52
11,322.00	90.50	181.30	3,978.28	-7,594.13	257.11	7,594.90	0.52	0.51	0.10
11,414.00	90.80	181.10	3,977.23	-7,686.11	255.19	7,686.87	0.39	0.33	-0.22
11,509.00	90.90	180.70	3,975.83	-7,781.08	253.70	7,781.84	0.43	0.11	-0.42
11,603.00	88.80	180.40	3,976.07	-7,875.07	252.79	7,875.83	2.26	-2.23	-0.32
11,697.00	87.40	180.00	3,979.19	-7,969.02	252.46	7,969.77	1.55	-1.49	-0.43
11,815.00	86.60	180.10	3,985.36	-8,086.86	252.36	8,087.61	0.68	-0.68	0.08
11,911.00	86.20	181.50	3,991.39	-8,182.66	251.02	8,183.40	1.51	-0.42	1.46
11,990.00	88.20	182.20	3,995.25	-8,261.52	248.48	8,262.26	2.68	2.53	0.89
Last Inwell Survey									
12,034.00	88.80	183.00	3,996.40	-8,305.45	246.48	8,306.19	2.27	1.36	1.82
Projection to TD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,990.00	3,995.25	-8,261.52	248.48	Last Inwell Survey
12,034.00	3,996.40	-8,305.45	246.48	Projection to TD

Checked By: _____ Approved By: _____ Date: _____