

Unit Petroleum

Reno County, Kansas [NAD 83]

Section 15 T25S-R10W

Feedlot 15 #2H

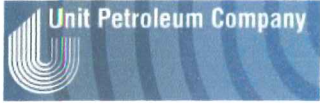
OH

Design: OH

Standard Survey Report

29 October, 2014





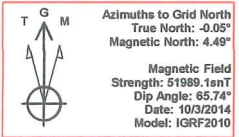
Unit Petroleum
 Project: Reno County, Kansas [NAD 83]
 Site: Section 15 T25S-R10W
 Well: Feedlot 15 #2H
 Wellbore: OH
 Design: Design #3
 Lat: 37° 52' 7.296 N
 Long: 98° 24' 55.612 W
 Pad GL: 1757.00
 KB: 14' KB @ 1771.00usft (UDI 331)



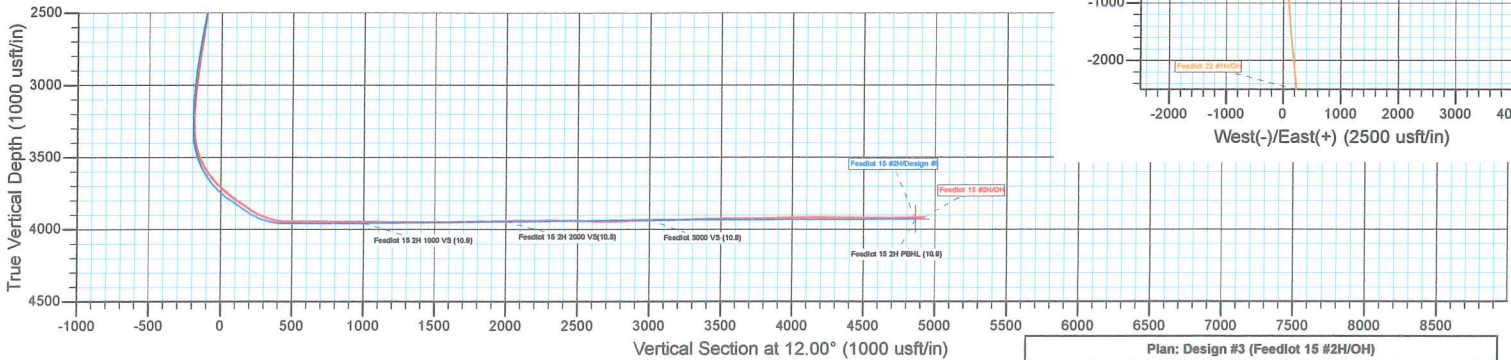
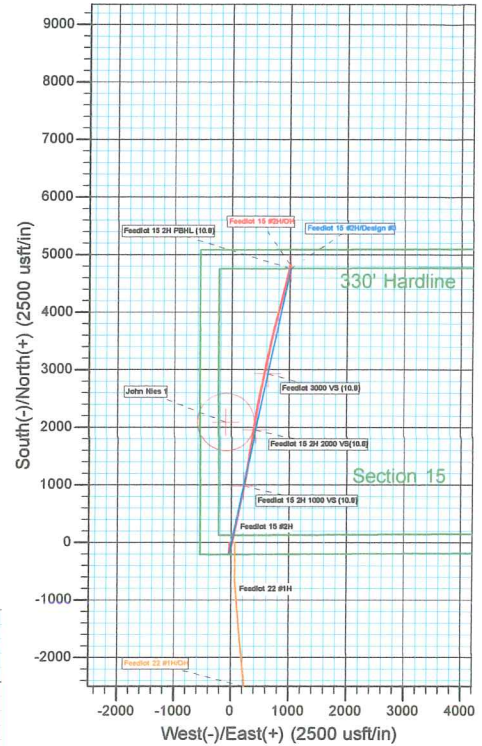
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1650.00	0.00	0.00	1650.00	0.00	0.00	0.00	0.00	0.00	
2150.00	10.00	192.00	2147.47	-42.67	-9.05	2.00	192.00	-43.52	
2783.18	10.00	192.00	2771.03	-150.12	-31.91	0.00	0.00	-153.47	
3283.18	0.00	0.00	3268.49	-192.69	-40.96	2.00	180.00	-197.00	
3333.18	0.00	0.00	3318.49	-192.69	-40.96	0.00	0.00	-197.00	
3893.18	56.00	12.00	3793.49	54.35	11.55	10.00	12.00	55.57	
4043.18	56.00	12.00	3877.37	175.99	37.41	0.00	0.00	179.92	
4328.24	90.21	12.00	3959.00	438.85	93.28	12.00	0.00	448.65	
4879.80	90.21	12.00	3857.00	978.15	207.91	0.00	0.00	1000.00	
4900.94	90.63	12.00	3856.84	999.03	212.35	2.00	0.00	1021.34	
5877.02	90.63	12.00	3946.03	1953.71	415.27	0.00	0.00	1997.36	
5879.66	90.69	12.00	3946.00	1956.30	415.82	2.00	0.00	2000.00	
6879.73	90.69	12.00	3934.00	2934.44	623.74	0.00	0.00	3000.00	
6906.62	90.15	12.00	3933.80	2960.74	629.33	2.00	180.00	3026.89	
8744.72	90.15	12.00	3929.00	4758.67	1011.49	0.00	0.00	4864.98	

WELL DETAILS: Feedlot 15 #2H						
+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude	Slot
0.00	0.00	1750029.00	1757.00	37° 52' 7.296 N	98° 24' 55.612 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: Design #3 (Feedlot 15 #2H/OH)
 Created By: Derek Stephens Date: 10:04, October 29 2014



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Feedlot 15 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1771.00usft (UDI 331)
Site:	Section 15 T25S-R10W	MD Reference:	14' KB @ 1771.00usft (UDI 331)
Well:	Feedlot 15 #2H	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 15 T25S-R10W				
Site Position:		Northing:	1,750,023.00 usft	Latitude:	37° 52' 7.214 N
From:	Map	Easting:	1,339,150.00 usft	Longitude:	98° 24' 25.556 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.06 °

Well	Feedlot 15 #2H					
Well Position	+N/-S	0.00 usft	Northing:	1,750,029.00 usft	Latitude:	37° 52' 7.296 N
	+E/-W	0.00 usft	Easting:	1,336,740.00 usft	Longitude:	98° 24' 55.612 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	1,757.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/3/2014	4.54	65.74	51,989

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	12.00	

Survey Program	Date	10/29/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	1,410.00	Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot	
1,571.00	8,775.00	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	
John Nies 1										
100.00	0.33	257.17	100.00	-0.06	-0.28	-0.12	0.33	0.33	0.00	
200.00	0.08	38.82	200.00	-0.07	-0.52	-0.18	0.40	-0.25	141.65	
300.00	0.26	347.67	300.00	0.20	-0.52	0.09	0.22	0.18	-51.15	
400.00	0.30	299.19	400.00	0.55	-0.80	0.37	0.23	0.04	-48.48	
500.00	0.52	273.99	499.99	0.71	-1.48	0.39	0.28	0.22	-25.20	
600.00	0.56	274.20	599.99	0.78	-2.42	0.26	0.04	0.04	0.21	
700.00	0.62	261.20	699.99	0.73	-3.44	0.00	0.15	0.06	-13.00	
800.00	0.48	266.90	799.98	0.63	-4.40	-0.30	0.15	-0.14	5.70	



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Well:	Feedlot 15 #2H	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)	
900.00	0.25	291.70	899.98	0.68	-5.02	-0.37	0.27	-0.23	24.80	
1,000.00	0.34	307.93	999.98	0.95	-5.45	-0.21	0.12	0.09	16.23	
1,100.00	0.62	283.99	1,099.97	1.26	-6.21	-0.06	0.34	0.28	-23.94	
1,200.00	0.59	306.38	1,199.97	1.70	-7.15	0.17	0.24	-0.03	22.39	
1,300.00	0.55	302.03	1,299.96	2.26	-7.97	0.55	0.06	-0.04	-4.35	
1,400.00	0.93	295.44	1,399.95	2.86	-9.11	0.90	0.39	0.38	-6.59	
1,410.00	0.86	297.71	1,409.95	2.93	-9.25	0.94	0.78	-0.70	22.70	
1,571.00	0.90	287.80	1,570.93	3.88	-11.53	1.40	0.10	0.02	-6.16	
1,665.00	1.90	250.90	1,664.91	3.59	-13.70	0.67	1.38	1.06	-39.26	
1,761.00	3.20	219.30	1,760.81	1.00	-16.90	-2.54	1.95	1.35	-32.92	
1,856.00	4.80	213.10	1,855.58	-4.38	-20.75	-8.60	1.74	1.68	-6.53	
1,950.00	5.90	203.30	1,949.17	-12.12	-24.81	-17.01	1.52	1.17	-10.43	
2,045.00	7.40	193.40	2,043.53	-22.55	-28.16	-27.91	1.98	1.58	-10.42	
2,139.00	8.90	188.30	2,136.58	-35.64	-30.61	-41.22	1.77	1.60	-5.43	
2,234.00	9.80	184.40	2,230.32	-50.97	-32.30	-56.57	1.16	0.95	-4.11	
2,328.00	9.90	185.70	2,322.93	-66.99	-33.71	-72.53	0.26	0.11	1.38	
2,423.00	9.60	186.80	2,416.56	-82.98	-35.46	-88.54	0.37	-0.32	1.16	
2,519.00	9.10	187.90	2,511.29	-98.45	-37.45	-104.08	0.55	-0.52	1.15	
2,615.00	9.10	183.10	2,606.08	-113.55	-38.91	-119.16	0.79	0.00	-5.00	
2,710.00	8.70	182.80	2,699.94	-128.23	-39.66	-133.67	0.42	-0.42	-0.32	
2,805.00	8.40	183.60	2,793.88	-142.33	-40.45	-147.63	0.34	-0.32	0.84	
2,900.00	7.70	184.80	2,887.94	-155.59	-41.42	-160.81	0.76	-0.74	1.26	
2,995.00	7.10	183.50	2,982.15	-167.80	-42.31	-172.93	0.66	-0.63	-1.37	
3,090.00	4.90	171.80	3,076.63	-177.67	-42.09	-182.54	2.64	-2.32	-12.32	
3,186.00	2.40	171.90	3,172.43	-183.72	-41.22	-188.28	2.60	-2.60	0.10	
3,249.00	1.30	143.30	3,235.39	-185.60	-40.61	-189.99	2.23	-1.75	-45.40	
3,291.00	1.10	143.40	3,277.38	-186.31	-40.08	-190.57	0.48	-0.48	0.24	
3,323.00	1.50	47.70	3,309.38	-186.27	-39.59	-190.43	6.08	1.25	-299.06	
3,355.00	4.80	24.60	3,341.33	-184.77	-38.72	-188.79	10.85	10.31	-72.19	
3,387.00	8.30	21.40	3,373.11	-181.40	-37.32	-185.20	10.99	10.94	-10.00	
3,419.00	11.50	14.90	3,404.63	-176.17	-35.66	-179.73	10.58	10.00	-20.31	
3,451.00	14.60	9.30	3,435.80	-169.10	-34.19	-172.52	10.45	9.69	-17.50	
3,482.00	18.30	10.60	3,465.53	-160.46	-32.66	-163.75	11.99	11.94	4.19	
3,513.00	21.90	12.30	3,494.64	-150.03	-30.53	-153.10	11.76	11.61	5.48	
3,545.00	25.10	14.70	3,523.98	-137.63	-27.54	-140.34	10.44	10.00	7.50	
3,576.00	28.40	15.60	3,551.66	-124.16	-23.88	-126.42	10.72	10.65	2.90	
3,608.00	31.60	14.90	3,579.37	-108.73	-19.68	-110.44	10.06	10.00	-2.19	
3,639.00	34.80	14.10	3,605.31	-92.29	-15.44	-93.49	10.42	10.32	-2.58	
3,671.00	37.80	13.50	3,631.09	-73.90	-10.92	-74.55	9.44	9.38	-1.88	
3,702.00	40.20	13.20	3,655.18	-54.92	-6.42	-55.05	7.77	7.74	-0.97	
3,734.00	42.70	12.70	3,679.17	-34.27	-1.67	-33.87	7.88	7.81	-1.56	
3,764.00	45.30	12.40	3,700.74	-13.93	2.85	-13.04	8.69	8.67	-1.00	
3,796.00	47.80	12.30	3,722.75	8.76	7.82	10.19	7.82	7.81	-0.31	



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Site:	Section 15 T25S-R10W	MD Reference:	14' KB @ 1771.00usft (UDI 331)
Well:	Feedlot 15 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
3,827.00	50.30	12.20	3,743.06	31.64	12.79	33.60	8.07	8.06	-0.32
3,859.00	52.60	12.20	3,763.01	56.10	18.08	58.63	7.19	7.19	0.00
3,893.00	54.70	11.90	3,783.16	82.87	23.79	86.01	6.22	6.18	-0.88
3,922.00	55.30	12.00	3,799.79	106.12	28.71	109.77	2.09	2.07	0.34
3,954.00	55.40	11.90	3,817.98	131.87	34.16	136.09	0.40	0.31	-0.31
3,986.00	55.50	11.80	3,836.13	157.66	39.57	162.45	0.40	0.31	-0.31
4,017.00	55.90	12.20	3,853.60	182.71	44.90	188.06	1.67	1.29	1.29
4,043.00	57.30	12.60	3,867.91	203.91	49.56	209.76	5.54	5.38	1.54
4,080.00	61.40	12.90	3,886.77	234.95	56.58	241.58	11.10	11.08	0.81
4,112.00	66.10	13.40	3,900.92	262.89	63.11	270.27	14.75	14.69	1.56
4,144.00	70.40	13.10	3,912.78	291.81	69.92	299.98	13.47	13.44	-0.94
4,175.00	72.50	13.10	3,922.64	320.44	76.58	329.36	6.77	6.77	0.00
4,207.00	74.90	12.80	3,931.62	350.37	83.47	360.06	7.55	7.50	-0.94
4,238.00	78.80	11.40	3,938.67	379.88	89.79	390.25	13.33	12.58	-4.52
4,271.00	82.90	10.70	3,943.92	411.85	96.03	422.81	12.60	12.42	-2.12
4,283.00	84.60	10.60	3,945.22	423.57	98.24	434.74	14.19	14.17	-0.83
4,353.00	90.60	12.10	3,948.15	492.11	112.00	504.64	8.83	8.57	2.14
4,416.00	91.30	11.40	3,947.11	553.78	124.82	567.63	1.57	1.11	-1.11
4,477.00	90.00	11.50	3,946.42	613.56	136.93	628.62	2.14	-2.13	0.16
4,540.00	90.50	11.20	3,946.14	675.33	149.33	691.62	0.93	0.79	-0.48
4,602.00	89.50	12.00	3,946.14	736.06	161.80	753.61	2.07	-1.61	1.29
4,664.00	89.60	12.20	3,946.63	796.68	174.79	815.61	0.36	0.16	0.32
4,726.00	89.80	11.90	3,946.95	857.31	187.74	877.61	0.58	0.32	-0.48
4,789.00	90.30	12.00	3,946.90	918.95	200.78	940.61	0.81	0.79	0.16
4,848.47	88.84	12.10	3,947.35	977.10	213.19	1,000.07	2.46	-2.46	0.16
Feedlot 15 2H 1000 VS (10.8)									
4,848.58	88.84	12.10	3,947.35	977.21	213.22	1,000.19	0.00	0.00	0.00
Feedlot 15 2H 1000 VS (10.7)									
4,850.00	88.80	12.10	3,947.38	978.60	213.51	1,001.61	2.67	-2.66	0.18
4,870.93	88.87	11.90	3,947.80	999.07	217.86	1,022.53	1.00	0.32	-0.95
Feedlot 15 2H 1000' VS (10.7)									
4,899.04	88.96	11.63	3,948.34	1,026.58	223.60	1,050.63	1.00	0.32	-0.95
Feedlot 15 2H 1000' VS									
4,913.00	89.00	11.50	3,948.59	1,040.26	226.39	1,064.59	1.00	0.32	-0.95
4,975.00	88.70	11.10	3,949.83	1,101.04	238.54	1,126.58	0.81	-0.48	-0.65
5,037.00	89.50	10.00	3,950.81	1,161.98	249.89	1,188.55	2.19	1.29	-1.77
5,098.00	90.60	9.40	3,950.75	1,222.11	260.17	1,249.50	2.05	1.80	-0.98
5,160.00	89.80	10.60	3,950.54	1,283.17	270.93	1,311.46	2.33	-1.29	1.94
5,222.00	89.80	9.90	3,950.75	1,344.18	281.97	1,373.43	1.13	0.00	-1.13
5,283.00	89.90	8.60	3,950.91	1,404.38	291.77	1,434.36	2.14	0.16	-2.13
5,345.00	90.50	8.70	3,950.70	1,465.68	301.10	1,496.25	0.98	0.97	0.16
5,406.00	91.60	9.10	3,949.58	1,525.93	310.53	1,557.15	1.92	1.80	0.66
5,468.00	90.60	9.70	3,948.39	1,587.09	320.66	1,619.07	1.88	-1.61	0.97
5,530.00	90.40	9.90	3,947.85	1,648.18	331.21	1,681.02	0.46	-0.32	0.32



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Well:	Feedlot 15 #2H	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)	
5,591.00	90.60	9.70	3,947.31	1,708.29	341.59	1,741.98	0.46	0.33	-0.33	
5,653.00	91.10	9.70	3,946.39	1,769.39	352.04	1,803.92	0.81	0.81	0.00	
5,714.00	91.30	9.50	3,945.12	1,829.53	362.21	1,864.85	0.46	0.33	-0.33	
5,776.00	91.80	9.20	3,943.44	1,890.68	372.28	1,926.76	0.94	0.81	-0.48	
5,837.00	90.80	9.50	3,942.06	1,950.85	382.18	1,987.68	1.71	-1.64	0.49	
5,847.90	90.78	9.55	3,941.91	1,961.60	383.99	1,998.57	0.51	-0.16	0.48	
Feedlot 15 2H 2000 VS(10.7)										
5,847.97	90.78	9.55	3,941.90	1,961.67	384.00	1,998.64	0.00	0.00	0.00	
Feedlot 15 2H 2000 VS(10.8)										
5,879.94	90.73	9.71	3,941.48	1,993.19	389.35	2,030.59	0.51	-0.16	0.48	
Feedlot 15 2H 2000' VS										
5,892.56	90.71	9.77	3,941.32	2,005.62	391.48	2,043.19	0.51	-0.16	0.48	
Feedlot 15 2H 2000 VS (10.7)										
5,899.00	90.70	9.80	3,941.24	2,011.97	392.58	2,049.62	0.51	-0.16	0.48	
5,960.00	90.80	10.00	3,940.45	2,072.06	403.06	2,110.58	0.37	0.16	0.33	
6,022.00	91.20	9.70	3,939.36	2,133.13	413.67	2,172.52	0.81	0.65	-0.48	
6,083.00	90.60	10.00	3,938.41	2,193.23	424.10	2,233.47	1.10	-0.98	0.49	
6,144.00	89.40	9.10	3,938.41	2,253.38	434.22	2,294.42	2.46	-1.97	-1.48	
6,206.00	89.00	9.50	3,939.27	2,314.56	444.24	2,356.34	0.91	-0.65	0.65	
6,267.00	88.70	9.60	3,940.50	2,374.70	454.36	2,417.27	0.52	-0.49	0.16	
6,328.00	89.30	10.30	3,941.56	2,434.77	464.90	2,478.22	1.51	0.98	1.15	
6,388.00	88.90	9.90	3,942.50	2,493.84	475.42	2,538.18	0.94	-0.67	-0.67	
6,450.00	89.00	9.80	3,943.64	2,554.91	486.02	2,600.13	0.23	0.16	-0.16	
6,511.00	89.80	9.90	3,944.28	2,615.01	496.46	2,661.08	1.32	1.31	0.16	
6,574.00	90.90	10.50	3,943.89	2,677.01	507.61	2,724.05	1.99	1.75	0.95	
6,638.00	91.60	11.60	3,942.50	2,739.81	519.88	2,788.02	2.04	1.09	1.72	
6,702.00	91.70	11.80	3,940.65	2,802.45	532.85	2,852.00	0.35	0.16	0.31	
6,764.00	91.80	12.10	3,938.76	2,863.08	545.68	2,913.97	0.51	0.16	0.48	
6,828.00	91.40	12.80	3,936.97	2,925.55	559.47	2,977.94	1.26	-0.63	1.09	
6,850.71	91.00	12.73	3,936.50	2,947.70	564.49	3,000.65	1.77	-1.75	-0.32	
Feedlot 3000 VS (10.7)										
6,850.80	91.00	12.73	3,936.50	2,947.78	564.51	3,000.73	0.00	0.00	0.00	
Feedlot 3000 VS (10.8)										
6,854.65	90.94	12.72	3,936.43	2,951.54	565.36	3,004.58	1.78	-1.75	-0.32	
Feedlot 15 2H 3000' VS										
6,891.00	90.30	12.60	3,936.04	2,987.00	573.32	3,040.93	1.78	-1.75	-0.32	
6,955.00	90.60	11.90	3,935.54	3,049.54	586.90	3,104.92	1.19	0.47	-1.09	
7,019.00	90.90	11.70	3,934.70	3,112.18	599.99	3,168.92	0.56	0.47	-0.31	
7,082.00	91.70	11.80	3,933.27	3,173.85	612.81	3,231.90	1.28	1.27	0.16	
7,146.00	92.20	11.60	3,931.09	3,236.48	625.78	3,295.86	0.84	0.78	-0.31	
7,210.00	91.30	12.10	3,929.14	3,299.09	638.92	3,359.83	1.61	-1.41	0.78	
7,272.00	91.30	11.70	3,927.73	3,359.74	651.70	3,421.82	0.64	0.00	-0.65	
7,335.00	89.90	12.30	3,927.07	3,421.36	664.80	3,484.81	2.42	-2.22	0.95	
7,398.00	89.40	12.10	3,927.46	3,482.93	678.11	3,547.81	0.85	-0.79	-0.32	
7,461.00	89.90	12.60	3,927.84	3,544.47	691.59	3,610.81	1.12	0.79	0.79	



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Feedlot 15 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1771.00usft (UDI 331)
Site:	Section 15 T25S-R10W	MD Reference:	14' KB @ 1771.00usft (UDI 331)
Well:	Feedlot 15 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
7,525.00	90.70	12.80	3,927.51	3,606.91	705.66	3,674.80	1.29	1.25	0.31
7,588.00	91.40	12.70	3,926.35	3,668.34	719.56	3,737.78	1.12	1.11	-0.16
7,650.00	91.30	12.90	3,924.89	3,728.78	733.29	3,799.76	0.36	-0.16	0.32
7,713.00	91.60	13.00	3,923.30	3,790.16	747.40	3,862.73	0.50	0.48	0.16
7,776.00	92.80	13.20	3,920.88	3,851.48	761.67	3,925.67	1.93	1.90	0.32
7,839.00	91.20	14.30	3,918.68	3,912.63	776.64	3,988.60	3.08	-2.54	1.75
7,903.00	90.60	14.90	3,917.67	3,974.56	792.77	4,052.53	1.33	-0.94	0.94
7,967.00	89.80	15.00	3,917.45	4,036.39	809.28	4,116.44	1.26	-1.25	0.16
8,030.00	90.20	14.60	3,917.45	4,097.30	825.37	4,179.37	0.90	0.63	-0.63
8,093.00	89.10	14.00	3,917.84	4,158.34	840.93	4,242.31	1.99	-1.75	-0.95
8,156.00	89.00	14.10	3,918.88	4,219.45	856.22	4,305.26	0.22	-0.16	0.16
8,219.00	89.50	14.00	3,919.70	4,280.56	871.51	4,368.22	0.81	0.79	-0.16
8,282.00	90.40	14.10	3,919.76	4,341.67	886.81	4,431.18	1.44	1.43	0.16
8,346.00	88.90	14.20	3,920.15	4,403.73	902.45	4,495.13	2.35	-2.34	0.16
8,409.00	89.20	14.20	3,921.19	4,464.80	917.91	4,558.07	0.48	0.48	0.00
8,473.00	89.80	13.40	3,921.75	4,526.95	933.17	4,622.04	1.56	0.94	-1.25
8,536.00	90.20	13.70	3,921.75	4,588.19	947.93	4,685.02	0.79	0.63	0.48
8,558.69	90.31	13.63	3,921.65	4,610.24	953.29	4,707.69	0.56	0.47	-0.31
Feedlot 15 2H PBHL									
8,600.00	90.50	13.50	3,921.36	4,650.40	962.98	4,748.99	0.56	0.47	-0.31
8,663.00	91.40	13.40	3,920.32	4,711.66	977.63	4,811.96	1.44	1.43	-0.16
8,715.90	91.95	13.01	3,918.77	4,763.14	989.71	4,864.83	1.28	1.04	-0.75
Feedlot 15 2H PBHL (10.7)									
8,716.19	91.96	13.00	3,918.76	4,763.42	989.77	4,865.12	1.28	1.04	-0.75
Feedlot 15 2H PBHL (10.8)									
8,730.00	92.10	12.90	3,918.27	4,776.87	992.87	4,878.91	1.28	1.04	-0.75
Last MWD Survey									
8,775.00	92.10	12.90	3,916.62	4,820.71	1,002.91	4,923.88	0.00	0.00	0.00
Projection to TD									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,730.00	3,918.27	4,776.87	992.87	Last MWD Survey
8,775.00	3,916.62	4,820.71	1,002.91	Projection to TD

Checked By: _____ Approved By: _____ Date: _____