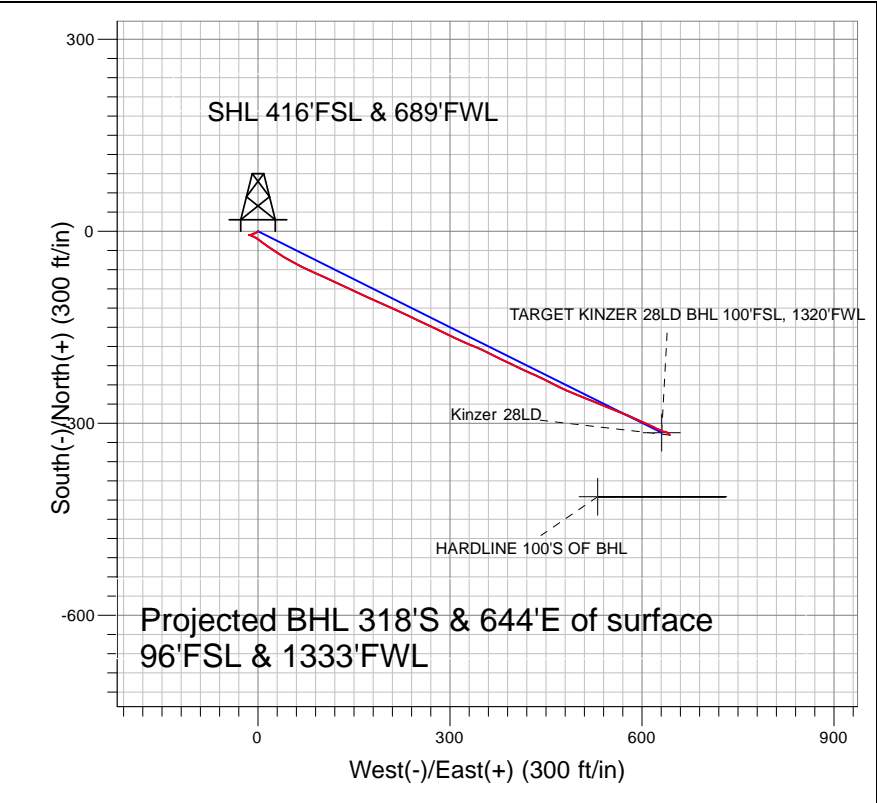
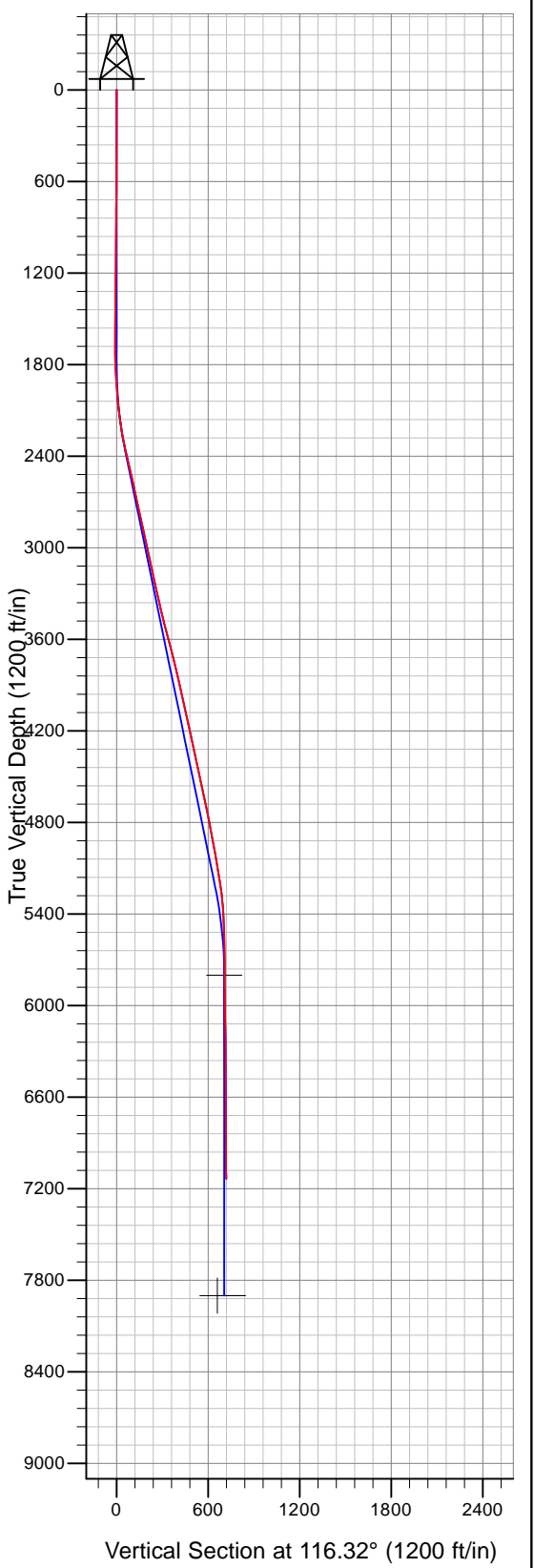


Well Name: **Kinzer 28LD**
 Surface Location: Kinzer 28LD Pad Sec.28-T5N-R67W
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
 Ground Elevation: 4784.0
 +N/-S+E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1376209.40 3165762.80 40° 21' 52.452 N 104° 54' 18.468 W
 Original Well Elev WELL @ 4797.0ft (Original Well Elev)

PETROLEUM DEVELOPMENT CORP Weld County CO



LEGEND

- ◆ Kinzer 28LD, Wellbore #1, Design #1 V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
 7209'MD & 7135'TVD @ 718' VS
 0.4 deg Inc 104.9 deg AZ

Project: SEC.28-T5N-R67W
 Site: Kinzer 28LD Pad Sec.28-T5N-R67W
 Well: Kinzer 28LD
 Plan: Wellbore #1



PETROLEUM DEVELOPMENT CORP Weld County CO

SEC.28-T5N-R67W

Kinzer 28LD Pad Sec.28-T5N-R67W

Kinzer 28LD

Wellbore #1

Survey: Survey #1

Standard Survey Report

11 November, 2008

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	Local Co-ordinate Reference:	Well Kinzer 28LD
Project:	SEC.28-T5N-R67W	TVD Reference:	WELL @ 4797.0ft (Original Well Elev)
Site:	Kinzer 28LD Pad Sec.28-T5N-R67W	MD Reference:	WELL @ 4797.0ft (Original Well Elev)
Well:	Kinzer 28LD	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM den0-adp01 Server Data

Project	SEC.28-T5N-R67W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Kinzer 28LD Pad Sec.28-T5N-R67W				
Site Position:		Northing:	1,376,209.41 ft	Latitude:	40° 21' 52.452 N
From:	Lat/Long	Easting:	3,165,762.80 ft	Longitude:	104° 54' 18.468 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.38 °

Well	Kinzer 28LD					
Well Position	+N/-S	0.0 ft	Northing:	1,376,209.40 ft	Latitude:	40° 21' 52.452 N
	+E/-W	0.0 ft	Easting:	3,165,762.80 ft	Longitude:	104° 54' 18.468 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,784.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/7/2008	9.32	67.11	53,441
	IGRF200510	10/20/2008	9.26	67.10	53,394

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	116.32	

Survey Program	Date	11/11/2008			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
677.0	7,209.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
40.0	0.04	231.50	40.0	0.0	0.0	0.0	0.09	0.09	0.00	
80.0	0.07	231.50	80.0	0.0	0.0	0.0	0.09	0.09	0.00	
120.0	0.11	231.50	120.0	-0.1	-0.1	0.0	0.09	0.09	0.00	
160.0	0.14	231.50	160.0	-0.1	-0.2	-0.1	0.09	0.09	0.00	
200.0	0.18	231.50	200.0	-0.2	-0.2	-0.1	0.09	0.09	0.00	
240.0	0.21	231.50	240.0	-0.3	-0.3	-0.2	0.09	0.09	0.00	
280.0	0.25	231.50	280.0	-0.4	-0.5	-0.3	0.09	0.09	0.00	
320.0	0.28	231.50	320.0	-0.5	-0.6	-0.3	0.09	0.09	0.00	
360.0	0.32	231.50	360.0	-0.6	-0.8	-0.4	0.09	0.09	0.00	
400.0	0.35	231.50	400.0	-0.8	-1.0	-0.5	0.09	0.09	0.00	

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	Local Co-ordinate Reference:	Well Kinzer 28LD
Project:	SEC.28-T5N-R67W	TVD Reference:	WELL @ 4797.0ft (Original Well Elev)
Site:	Kinzer 28LD Pad Sec.28-T5N-R67W	MD Reference:	WELL @ 4797.0ft (Original Well Elev)
Well:	Kinzer 28LD	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM den0-adp01 Server Data

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
440.0	0.39	231.50	440.0	-0.9	-1.2	-0.6	0.09	0.09	0.00
480.0	0.43	231.50	480.0	-1.1	-1.4	-0.8	0.09	0.09	0.00
520.0	0.46	231.50	520.0	-1.3	-1.6	-0.9	0.09	0.09	0.00
560.0	0.50	231.50	560.0	-1.5	-1.9	-1.0	0.09	0.09	0.00
600.0	0.53	231.50	600.0	-1.7	-2.2	-1.2	0.09	0.09	0.00
640.0	0.57	231.50	640.0	-2.0	-2.5	-1.3	0.09	0.09	0.00
680.0	0.61	231.96	680.0	-2.2	-2.8	-1.5	0.10	0.10	1.16
720.0	0.69	237.37	720.0	-2.5	-3.2	-1.7	0.25	0.20	13.52
760.0	0.77	241.62	760.0	-2.7	-3.6	-2.0	0.25	0.21	10.61
800.0	0.77	246.42	800.0	-3.0	-4.1	-2.3	0.16	-0.01	12.01
840.0	0.72	252.35	840.0	-3.2	-4.6	-2.7	0.22	-0.11	14.83
880.0	0.69	256.16	880.0	-3.3	-5.1	-3.1	0.15	-0.09	9.51
920.0	0.64	253.48	920.0	-3.4	-5.5	-3.4	0.13	-0.11	-6.70
960.0	0.60	250.43	960.0	-3.6	-5.9	-3.7	0.13	-0.10	-7.63
1,000.0	0.64	250.97	1,000.0	-3.7	-6.3	-4.0	0.09	0.08	1.36
1,040.0	0.68	251.83	1,040.0	-3.8	-6.8	-4.4	0.11	0.11	2.14
1,080.0	0.71	250.76	1,080.0	-4.0	-7.2	-4.7	0.08	0.07	-2.68
1,120.0	0.73	248.12	1,120.0	-4.2	-7.7	-5.1	0.10	0.05	-6.59
1,160.0	0.75	245.62	1,160.0	-4.4	-8.2	-5.4	0.10	0.05	-6.25
1,200.0	0.77	243.26	1,199.9	-4.6	-8.6	-5.7	0.10	0.05	-5.90
1,240.0	0.79	241.04	1,239.9	-4.9	-9.1	-6.0	0.10	0.06	-5.57
1,280.0	0.79	245.69	1,279.9	-5.1	-9.6	-6.4	0.16	0.00	11.64
1,320.0	0.79	252.68	1,319.9	-5.3	-10.1	-6.7	0.24	0.00	17.47
1,360.0	0.78	258.47	1,359.9	-5.4	-10.7	-7.2	0.20	-0.03	14.48
1,400.0	0.74	262.72	1,399.9	-5.5	-11.2	-7.6	0.18	-0.11	10.63
1,440.0	0.70	267.47	1,439.9	-5.6	-11.7	-8.0	0.18	-0.10	11.87
1,480.0	0.70	268.35	1,479.9	-5.6	-12.2	-8.4	0.03	0.00	2.18
1,520.0	0.70	269.11	1,519.9	-5.6	-12.7	-8.9	0.02	0.00	1.91
1,560.0	0.65	271.25	1,559.9	-5.6	-13.2	-9.3	0.15	-0.13	5.33
1,600.0	0.56	274.92	1,599.9	-5.6	-13.6	-9.7	0.23	-0.21	9.18
1,640.0	0.38	276.63	1,639.9	-5.5	-13.9	-10.0	0.46	-0.46	4.29
1,680.0	0.17	122.86	1,679.9	-5.6	-14.0	-10.1	1.35	-0.52	-384.43
1,720.0	0.71	109.11	1,719.9	-5.7	-13.7	-9.8	1.35	1.33	-34.37
1,760.0	1.36	108.85	1,759.9	-5.9	-13.1	-9.1	1.63	1.62	-0.67
1,800.0	2.03	108.96	1,799.9	-6.3	-11.9	-7.9	1.68	1.68	0.29
1,840.0	2.70	110.14	1,839.9	-6.8	-10.4	-6.3	1.68	1.67	2.94
1,880.0	3.36	111.94	1,879.8	-7.6	-8.4	-4.2	1.68	1.67	4.51
1,920.0	4.01	113.49	1,919.7	-8.6	-6.0	-1.6	1.63	1.62	3.87
1,960.0	4.27	120.81	1,959.6	-9.9	-3.5	1.3	1.47	0.64	18.31
2,000.0	4.59	127.21	1,999.5	-11.6	-0.9	4.3	1.47	0.79	16.01
2,040.0	5.32	127.78	2,039.3	-13.7	1.8	7.7	1.85	1.84	1.40
2,080.0	6.25	126.30	2,079.1	-16.2	5.0	11.6	2.35	2.32	-3.69
2,120.0	7.17	125.23	2,118.9	-18.9	8.8	16.3	2.33	2.31	-2.67
2,160.0	8.09	124.47	2,158.5	-21.9	13.1	21.5	2.30	2.29	-1.91
2,200.0	9.01	123.85	2,198.1	-25.3	18.1	27.4	2.30	2.29	-1.53
2,240.0	9.93	123.80	2,237.5	-28.9	23.5	33.9	2.31	2.31	-0.14
2,280.0	10.86	123.80	2,276.9	-33.0	29.5	41.1	2.32	2.32	0.00
2,320.0	11.71	122.59	2,316.1	-37.3	36.1	48.9	2.20	2.12	-3.01
2,360.0	12.50	120.52	2,355.2	-41.7	43.2	57.2	2.25	1.97	-5.20
2,400.0	13.16	118.81	2,394.2	-46.1	51.0	66.1	1.90	1.65	-4.26
2,440.0	12.82	118.07	2,433.2	-50.3	58.9	75.1	0.94	-0.85	-1.84
2,480.0	12.48	117.30	2,472.2	-54.4	66.6	83.9	0.94	-0.84	-1.94
2,520.0	12.36	115.72	2,511.3	-58.3	74.3	92.4	0.90	-0.31	-3.95
2,560.0	12.32	113.86	2,550.3	-61.8	82.1	101.0	1.00	-0.10	-4.64

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	Local Co-ordinate Reference:	Well Kinzer 28LD
Project:	SEC.28-T5N-R67W	TVD Reference:	WELL @ 4797.0ft (Original Well Elev)
Site:	Kinzer 28LD Pad Sec.28-T5N-R67W	MD Reference:	WELL @ 4797.0ft (Original Well Elev)
Well:	Kinzer 28LD	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM den0-adp01 Server Data

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,600.0	12.38	113.16	2,589.4	-65.2	89.9	109.5	0.40	0.14	-1.77
2,640.0	12.59	114.35	2,628.5	-68.7	97.8	118.1	0.83	0.52	2.98
2,680.0	12.80	115.50	2,667.5	-72.4	105.8	126.9	0.83	0.54	2.88
2,720.0	12.55	115.38	2,706.5	-76.2	113.7	135.7	0.64	-0.63	-0.31
2,760.0	12.29	115.25	2,745.6	-79.8	121.5	144.3	0.64	-0.63	-0.32
2,800.0	12.25	115.23	2,784.7	-83.4	129.2	152.8	0.11	-0.11	-0.06
2,840.0	12.34	115.27	2,823.8	-87.1	136.9	161.3	0.21	0.21	0.11
2,880.0	12.38	115.07	2,862.8	-90.7	144.6	169.9	0.15	0.10	-0.49
2,920.0	12.29	114.16	2,901.9	-94.3	152.4	178.4	0.53	-0.21	-2.28
2,960.0	12.21	113.24	2,941.0	-97.7	160.2	186.9	0.53	-0.20	-2.31
3,000.0	12.23	113.94	2,980.1	-101.1	167.9	195.3	0.37	0.05	1.74
3,040.0	12.28	114.91	3,019.2	-104.6	175.7	203.8	0.53	0.11	2.44
3,080.0	12.32	115.23	3,058.3	-108.2	183.4	212.4	0.20	0.11	0.80
3,120.0	12.36	114.90	3,097.3	-111.8	191.1	220.9	0.21	0.10	-0.83
3,160.0	12.40	114.57	3,136.4	-115.4	198.9	229.5	0.20	0.09	-0.82
3,200.0	12.40	114.28	3,175.5	-119.0	206.7	238.1	0.16	0.00	-0.73
3,240.0	12.40	113.99	3,214.5	-122.5	214.6	246.6	0.16	0.00	-0.73
3,280.0	12.40	114.34	3,253.6	-126.0	222.4	255.2	0.19	0.00	0.89
3,320.0	12.40	114.97	3,292.7	-129.6	230.2	263.8	0.34	0.00	1.58
3,360.0	12.61	115.49	3,331.7	-133.3	238.0	272.4	0.59	0.52	1.29
3,400.0	13.24	115.75	3,370.7	-137.1	246.1	281.4	1.59	1.58	0.65
3,440.0	13.87	115.99	3,409.6	-141.2	254.5	290.7	1.59	1.58	0.59
3,480.0	14.22	115.63	3,448.4	-145.5	263.2	300.4	0.90	0.88	-0.90
3,520.0	14.56	115.25	3,487.2	-149.7	272.2	310.4	0.87	0.84	-0.94
3,560.0	14.77	115.20	3,525.8	-154.0	281.4	320.5	0.54	0.54	-0.14
3,600.0	14.90	115.37	3,564.5	-158.4	290.7	330.8	0.34	0.32	0.43
3,640.0	14.92	115.41	3,603.2	-162.8	300.0	341.1	0.06	0.06	0.10
3,680.0	14.59	115.00	3,641.8	-167.2	309.2	351.3	0.88	-0.84	-1.03
3,720.0	14.25	114.57	3,680.6	-171.4	318.2	361.2	0.88	-0.84	-1.08
3,760.0	13.77	113.65	3,719.4	-175.3	327.1	370.9	1.33	-1.21	-2.28
3,800.0	13.26	112.59	3,758.3	-179.0	335.7	380.2	1.41	-1.26	-2.66
3,840.0	12.95	113.02	3,797.2	-182.4	344.0	389.3	0.81	-0.78	1.06
3,880.0	12.86	115.18	3,836.2	-186.1	352.2	398.2	1.23	-0.22	5.40
3,920.0	12.80	117.15	3,875.2	-190.0	360.2	407.1	1.10	-0.15	4.92
3,960.0	12.84	116.43	3,914.2	-194.0	368.1	415.9	0.41	0.10	-1.80
4,000.0	12.89	115.71	3,953.2	-197.9	376.1	424.9	0.41	0.11	-1.79
4,040.0	12.75	115.64	3,992.2	-201.8	384.1	433.7	0.33	-0.33	-0.18
4,080.0	12.55	115.85	4,031.3	-205.6	392.0	442.5	0.53	-0.52	0.52
4,120.0	12.48	115.84	4,070.3	-209.3	399.8	451.1	0.18	-0.18	-0.02
4,160.0	12.73	115.33	4,109.4	-213.1	407.6	459.9	0.69	0.63	-1.28
4,200.0	12.98	114.84	4,148.4	-216.9	415.7	468.8	0.69	0.63	-1.23
4,240.0	12.49	114.29	4,187.4	-220.6	423.7	477.6	1.26	-1.22	-1.37
4,280.0	11.95	113.69	4,226.5	-224.0	431.5	486.1	1.40	-1.37	-1.50
4,320.0	11.69	114.44	4,265.6	-227.3	438.9	494.2	0.74	-0.63	1.88
4,360.0	11.69	116.34	4,304.8	-230.8	446.2	502.3	0.96	0.00	4.74
4,400.0	11.77	117.71	4,344.0	-234.5	453.5	510.4	0.73	0.20	3.44
4,440.0	12.19	116.68	4,383.1	-238.3	460.8	518.7	1.17	1.04	-2.59
4,480.0	12.61	115.71	4,422.2	-242.1	468.5	527.3	1.17	1.05	-2.42
4,520.0	12.70	114.98	4,461.2	-245.8	476.5	536.1	0.46	0.23	-1.83
4,560.0	12.70	114.30	4,500.2	-249.5	484.5	544.9	0.37	0.00	-1.68
4,600.0	12.70	113.48	4,539.2	-253.0	492.5	553.7	0.45	0.00	-2.06
4,640.0	12.70	112.43	4,578.2	-256.5	500.6	562.4	0.58	0.00	-2.63
4,680.0	12.68	111.41	4,617.3	-259.8	508.8	571.2	0.56	-0.03	-2.55

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	Local Co-ordinate Reference:	Well Kinzer 28LD
Project:	SEC.28-T5N-R67W	TVD Reference:	WELL @ 4797.0ft (Original Well Elev)
Site:	Kinzer 28LD Pad Sec.28-T5N-R67W	MD Reference:	WELL @ 4797.0ft (Original Well Elev)
Well:	Kinzer 28LD	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM den0-adp01 Server Data

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,720.0	12.02	111.64	4,656.3	-262.9	516.7	579.7	1.67	-1.67	0.58
4,760.0	11.35	111.90	4,695.5	-265.9	524.3	587.8	1.67	-1.67	0.65
4,800.0	10.86	112.42	4,734.8	-268.8	531.4	595.5	1.24	-1.22	1.31
4,840.0	10.48	113.13	4,774.1	-271.7	538.2	602.9	1.00	-0.95	1.78
4,880.0	10.25	113.22	4,813.4	-274.5	544.8	610.0	0.58	-0.58	0.21
4,920.0	10.46	111.33	4,852.8	-277.2	551.4	617.2	0.99	0.51	-4.71
4,960.0	10.67	109.52	4,892.1	-279.8	558.3	624.5	0.99	0.54	-4.53
5,000.0	10.62	110.92	4,931.4	-282.3	565.2	631.8	0.66	-0.13	3.50
5,040.0	10.54	112.80	4,970.7	-285.1	572.1	639.1	0.89	-0.20	4.70
5,080.0	10.42	114.03	5,010.1	-288.0	578.7	646.4	0.63	-0.30	3.08
5,120.0	10.25	114.53	5,049.4	-290.9	585.3	653.6	0.48	-0.42	1.25
5,160.0	10.03	114.94	5,088.8	-293.9	591.7	660.6	0.58	-0.56	1.02
5,200.0	9.32	114.30	5,128.2	-296.7	597.8	667.4	1.79	-1.77	-1.61
5,240.0	8.61	113.55	5,167.7	-299.2	603.5	673.6	1.79	-1.77	-1.87
5,280.0	8.01	114.27	5,207.3	-301.5	608.8	679.4	1.52	-1.50	1.79
5,320.0	7.47	115.82	5,246.9	-303.8	613.7	684.7	1.47	-1.37	3.88
5,360.0	6.66	116.38	5,286.6	-306.0	618.1	689.7	2.02	-2.01	1.41
5,400.0	5.32	113.85	5,326.4	-307.8	621.9	693.9	3.42	-3.35	-6.33
5,440.0	4.00	109.63	5,366.3	-309.0	624.9	697.1	3.42	-3.31	-10.54
5,480.0	3.22	112.42	5,406.2	-309.9	627.2	699.6	1.98	-1.94	6.98
5,520.0	2.51	117.83	5,446.1	-310.7	629.1	701.6	1.91	-1.78	13.53
5,560.0	2.04	120.24	5,486.1	-311.5	630.4	703.2	1.21	-1.19	6.02
5,600.0	1.74	117.58	5,526.1	-312.2	631.6	704.5	0.77	-0.74	-6.65
5,640.0	1.44	114.86	5,566.1	-312.6	632.6	705.6	0.77	-0.75	-6.80
5,680.0	1.10	116.89	5,606.1	-313.0	633.4	706.5	0.85	-0.85	5.07
5,720.0	0.77	120.70	5,646.1	-313.3	633.9	707.1	0.85	-0.84	9.53
5,760.0	0.53	103.98	5,686.1	-313.5	634.3	707.6	0.75	-0.59	-41.79
5,800.0	0.45	67.36	5,726.1	-313.5	634.7	707.9	0.79	-0.20	-91.55
5,840.0	0.47	52.07	5,766.1	-313.3	634.9	708.0	0.31	0.03	-38.23
5,873.9	0.41	66.79	5,800.0	-313.2	635.1	708.2	0.36	-0.15	43.43
TARGET KINZER 28LD BHL 100'FSL, 1320'FWL									
5,880.0	0.41	69.77	5,806.1	-313.2	635.2	708.2	0.36	-0.09	48.86
5,920.0	0.41	89.75	5,846.1	-313.1	635.5	708.4	0.35	0.00	49.95
5,960.0	0.58	94.67	5,886.1	-313.1	635.8	708.7	0.43	0.42	12.30
6,000.0	0.74	97.37	5,926.1	-313.2	636.3	709.2	0.43	0.42	6.74
6,040.0	0.79	103.75	5,966.1	-313.3	636.8	709.7	0.24	0.11	15.96
6,080.0	0.79	112.41	6,006.0	-313.5	637.3	710.2	0.30	0.00	21.65
6,120.0	0.80	118.60	6,046.0	-313.7	637.8	710.8	0.22	0.03	15.46
6,160.0	0.80	119.03	6,086.0	-314.0	638.3	711.3	0.01	0.00	1.06
6,200.0	0.80	119.36	6,126.0	-314.2	638.8	711.9	0.01	0.00	0.83
6,240.0	0.76	121.27	6,166.0	-314.5	639.3	712.4	0.11	-0.09	4.78
6,280.0	0.72	123.64	6,206.0	-314.8	639.7	713.0	0.13	-0.10	5.93
6,320.0	0.65	121.18	6,246.0	-315.1	640.1	713.4	0.19	-0.17	-6.15
6,360.0	0.56	111.12	6,286.0	-315.3	640.5	713.9	0.35	-0.23	-25.15
6,400.0	0.49	99.53	6,326.0	-315.3	640.8	714.2	0.32	-0.17	-28.99
6,440.0	0.41	102.29	6,366.0	-315.4	641.1	714.5	0.22	-0.21	6.92
6,480.0	0.32	106.49	6,406.0	-315.5	641.4	714.8	0.22	-0.21	10.49
6,520.0	0.26	133.96	6,446.0	-315.6	641.6	715.0	0.38	-0.15	68.67
6,560.0	0.31	170.44	6,486.0	-315.7	641.7	715.1	0.47	0.13	91.20
6,600.0	0.35	184.31	6,526.0	-316.0	641.6	715.2	0.22	0.10	34.68
6,640.0	0.20	171.04	6,566.0	-316.2	641.6	715.3	0.41	-0.38	-33.18
6,680.0	0.10	117.49	6,606.0	-316.3	641.7	715.4	0.41	-0.25	-133.88
6,720.0	0.28	142.34	6,646.0	-316.3	641.8	715.5	0.49	0.45	62.14

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	Local Co-ordinate Reference:	Well Kinzer 28LD
Project:	SEC.28-T5N-R67W	TVD Reference:	WELL @ 4797.0ft (Original Well Elev)
Site:	Kinzer 28LD Pad Sec.28-T5N-R67W	MD Reference:	WELL @ 4797.0ft (Original Well Elev)
Well:	Kinzer 28LD	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM den0-adp01 Server Data

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,760.0	0.50	148.94	6,686.0	-316.6	641.9	715.7	0.55	0.54	16.49
6,800.0	0.51	144.60	6,726.0	-316.9	642.1	716.1	0.10	0.04	-10.84
6,840.0	0.37	126.32	6,766.0	-317.1	642.3	716.4	0.50	-0.36	-45.70
6,880.0	0.29	101.12	6,806.0	-317.2	642.5	716.6	0.41	-0.19	-63.01
6,920.0	0.26	127.39	6,846.0	-317.3	642.7	716.8	0.32	-0.09	65.68
6,960.0	0.28	154.53	6,886.0	-317.4	642.8	716.9	0.32	0.07	67.86
7,000.0	0.30	165.07	6,926.0	-317.6	642.9	717.1	0.14	0.04	26.34
7,040.0	0.30	171.14	6,966.0	-317.8	642.9	717.2	0.08	0.00	15.17
7,080.0	0.28	164.68	7,006.0	-318.0	643.0	717.3	0.09	-0.04	-16.15
7,120.0	0.30	129.89	7,046.0	-318.2	643.1	717.5	0.43	0.03	-86.96
7,160.0	0.39	105.77	7,086.0	-318.3	643.3	717.7	0.43	0.25	-60.32
7,200.0	0.40	104.90	7,126.0	-318.4	643.6	718.0	0.02	0.02	-2.16
HARDLINE 100'S OF BHL									

Checked By: _____ Approved By: _____ Date: _____