BAKER HUGHES

Memory and Realtime Log

Natural Formation Evaluation
Multiple Propogation Resistivity
Gamma Ray

Scale: 1:240 True Vertical Depth	**Company:** **Anadarko**
	Well: UNDERHILL 27N-17HZ
	Field: **WELD COUNTY (KERR MCGEE)**
	Region: **Rocky Mountains Country: United States**

Status: **Field Print**

API Number: 051233691500

Surface Location:
Latitude: 40° 2' 46.000" N
Longitude: 104° 54' 30.971" W
SEC: 17 TWN: 1N RGE: 67W

Other Services:
Directional

Permanent Datum (P.D.):	Ground Level	Elevation:	5113.00 ft.
Log Measured From:	Rig Floor	16.00 ft.	Above P.D.
Depth Reference:	Driller's Depth		

Elevations:
KB: N/A
DF: 5119.00 ft.
GL: 5113.00 ft.

Interval Logged		Dates		Magnetic Field Reference			
Top:	7062 ft.	Date From:	29/Jul/2013	Dip Angle:	66.50 °	Azi Reference North:	True
Bottom:	8072 ft.	Date To:	31/Jul/2013	Total		Mag to Reference	
		Spud Date:	29/Jul/2013	Field Strength:	52926.0 nT	North Correction:	8.52 °

Borehole Record			Casing Record			
Hole Size	From	To	Size	Weight	From	To
8.750 in.	953 ft.	8119 ft.	9.625 in.	36.00 lb/ft	Surface	943 ft.

Mud Record			Deviation Record			
Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
Water Based	Surface	8119 ft.	8.750 in.	90 ft.	1.8 ° / 52.5 °	0.1 / 295.6 °
			8.750 in.	45 ft.	0.1 ° / 295.6 °	87.3 ° / 1.1 °
					/	/
					/	/
					/	/
					/	/

Acquisition System	Software Version	Other	
Advantage	2.20U4	Rig: / Contractor:	Xteme 24 / Xtreme Coil Drilling
PATS	6.4.1.34	Job No:	5589936
		District: / Unit:	RMD / D&E

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Log Run Summary

LWD Run No.	BHA Run No.	Bit Run No.	Bit Size (in.)	Bit Type	Bit Gauge Length (in.)	Assembly Type	Logged Interval Top (ft.)	Logged Interval Bottom (ft.)	Bit Depth Interval From (ft.)	Bit Depth Interval To (ft.)	Date / Time Start	Date / Time End	Circ. Time (hrs.)
1	1	1	8.750	PDC	2.000	Steerable	7062	8072	7112	8119	29/Jul/2013 07:32	31/Jul/2013 22:50	35

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Marcus Boucher	29/Jul/2013	30/Jul/2013	Austin Small	30/Jul/2013	1/Aug/2013	Osagie Otoikhine	29/Jul/2013	1/Aug/2013

Mud Properties Record

Date / Time	LWD Run No.	Measured Depth (ft.)	Mud Type	Density (ppg)	Viscosity (cp)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
30/Jul/2013 18:00	1	3764	Drill Water	8.5	2	8.0	N/A	0/98.5	Active	1500	N/A
31/Jul/2013 06:00	1	6060	Drill Water	8.6	2	8.0	N/A	0/97.8	Active	1500	N/A
31/Jul/2013 18:00	1	7751	LSND	10.0	14	7.7	N/A	0/91.5	Active	2000	N/A

Mud Resistivity Record

				Surface				Downhole		
Date / Time	LWD Run No.	Measured Depth (ft.)	Surface Temp (deg F)	Rm (ohm.m)	Rmf (ohm.m)	Rmc (ohm.m)	BHCT (deg F)	Rm @ BHCT (ohm.m)	Rmf @ BHCT (ohm.m)	Rmc @ BHCT (ohm.m)
29/Jul/2013 07:56	1	900	70	1.50	1.50	1.50	100	1.07	1.07	1.07
30/Jul/2013 13:02	1	2613	72	0.82	0.82	0.82	115	0.53	0.53	0.53
31/Jul/2013 09:49	1	6885	69	0.88	0.88	0.88	167	0.38	0.38	0.38

Mnemonics

Curve	Description	Units
ROPA	Rate of Penetration, 3.0 ft. Avg.	ft/hr
GRAM	Gamma Ray Apparent, 0.5 ft. Avg.	API
RACLM	Resistivity (AT) (LS) 400kHz – Compensated Borehole Corrected	ohm.m
RACHM	Resistivity (AT) (LS) 2MHz – Compensated Borehole Corrected	ohm.m
RPCLM	Resistivity (PD) (LS) 400kHz – Compensated Borehole Corrected	ohm.m
RPCHM	Resistivity (PD) (LS) 2MHz – Compensated Borehole Corrected	ohm.m
CACHM	Conductivity (AT) (LS) 2MHz – Compensated Borehole Corrected	mho/m
TCDM	Downhole Temperature	degF

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
1	CS	12447875	-	72.90	7.030	2.165
1	BCPM	12000489	Telemetry	62.53	7.030	2.165
1	OTK	12129153	Directional	57.61	7.031	2.165
1	OTK	12129153	Resistivity	51.80	7.031	2.165
1	OTK	12129153	Gamma	47.77	7.031	2.165
1	OTK	12129153	Pressure	46.88	7.031	2.165
1	CS	12128324	-	43.29	7.030	2.165

Service and Tool Mnemonics

Mnemonic	Name	Description
BCPM	BCPM	Mud pulse telemetry and downhole tool power module
OTK	OnTrak	Propagation resistivity, propagation conductivity, gamma ray, directional, annular pressure, system memory and VSS
CS	Closure Sub	BHA power ring isolator allowing insertion of inert sub into electrically powered BHA

Comments

(1) Baker Hughes INTEQ run 1 utilized 6 3/4 Ontrak services (Multiple Propogation Resistivity, Gamma Ra,y and Directional) behind a 8 3/4 inch bit and steerable assembly from 7062 to 7727 feet MD (6980 to 7675 feet TVD).

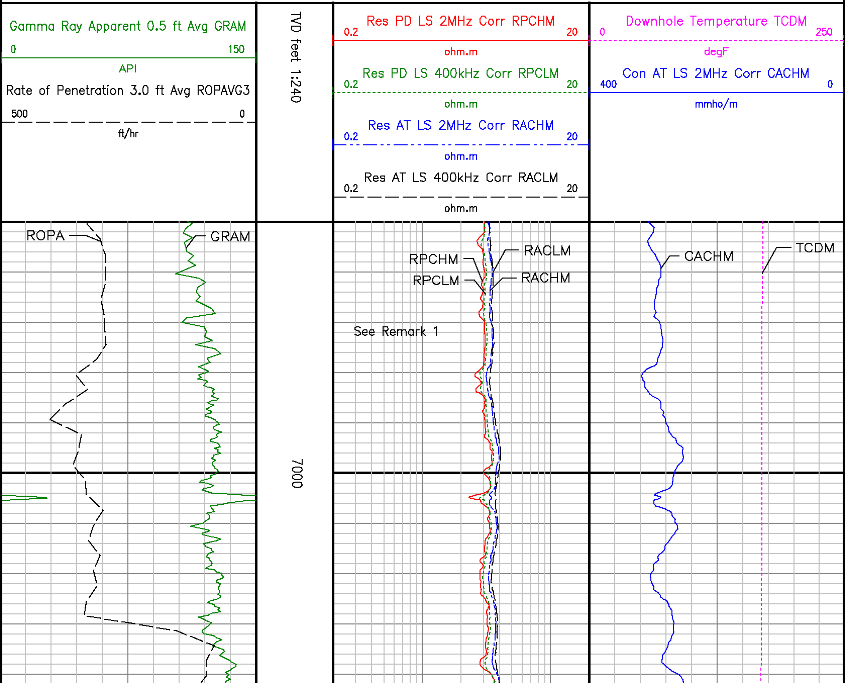
(2) A sliding indicator is shown on the right edge of track 2 as a heavy line. The indicator has been depth-shifted to the resistivity sensor offset to correspond with resistivity data acquired while sliding.

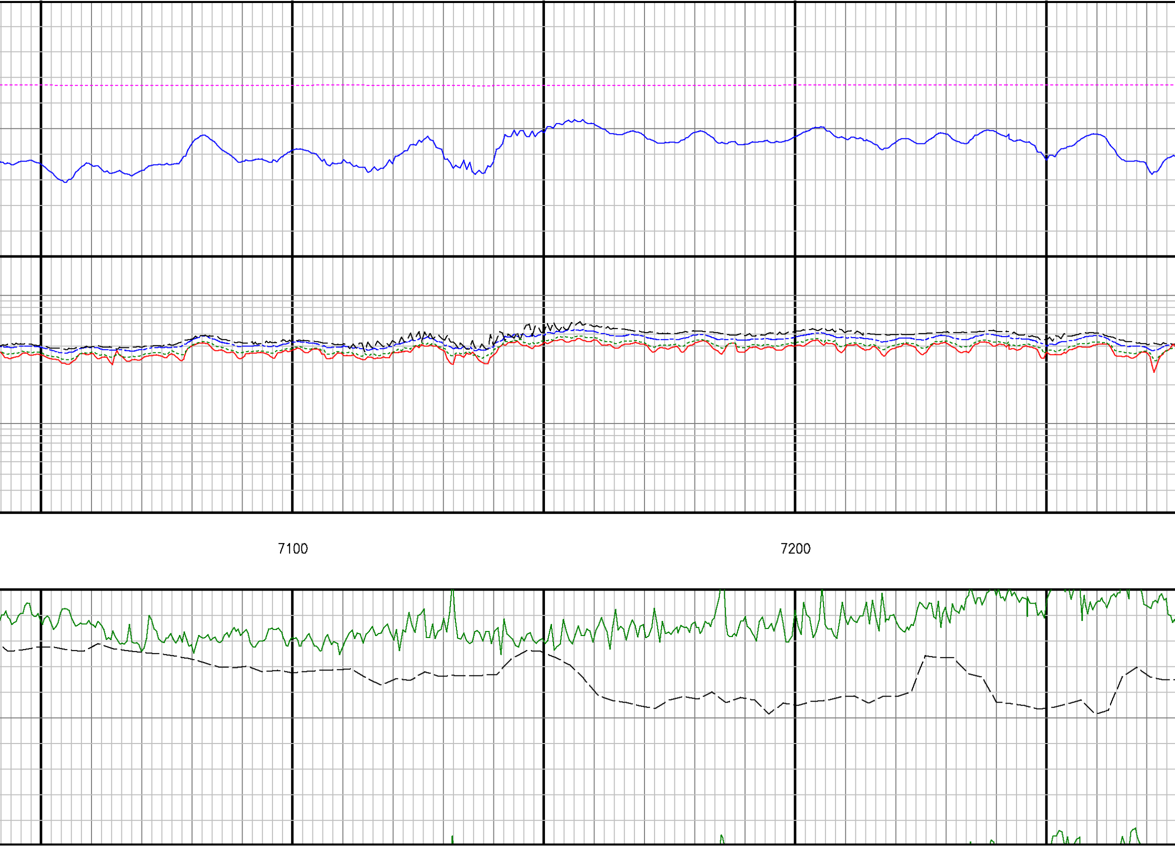
Remarks

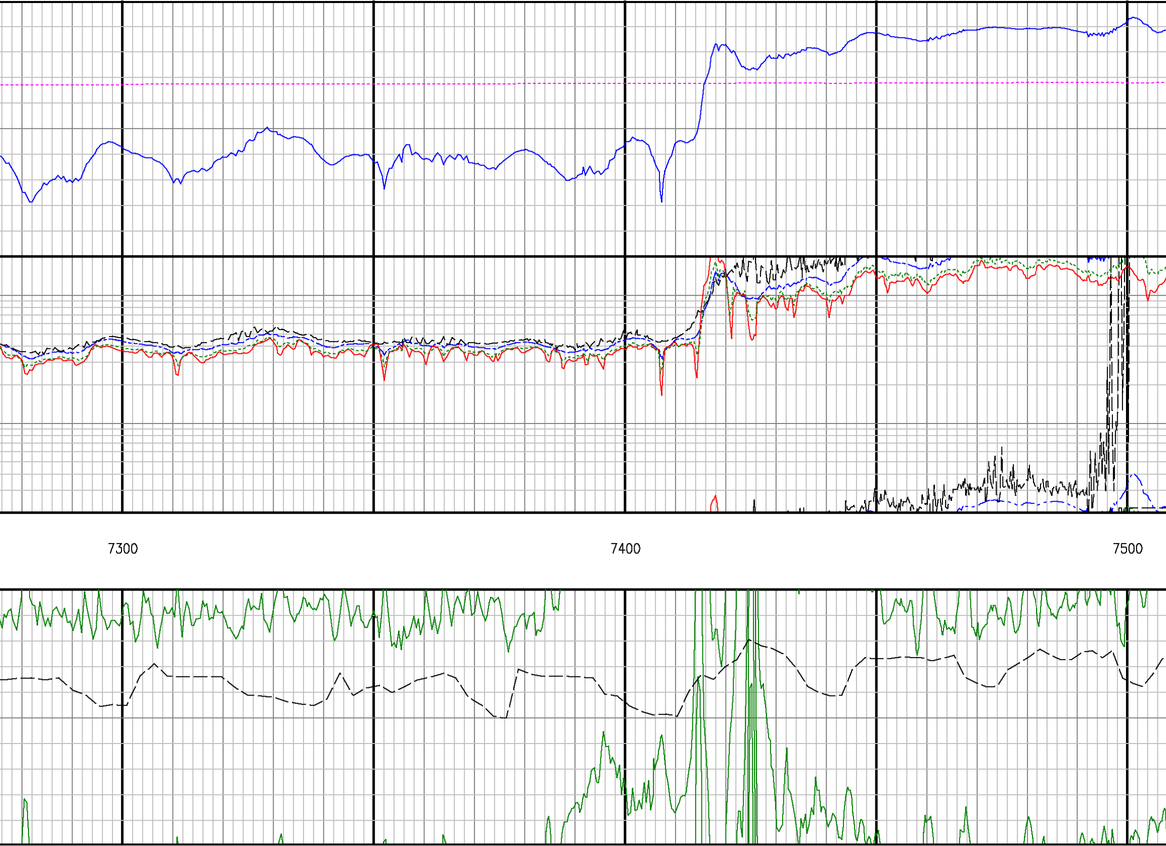
Number	Measured Depth (ft.)	Hole Section (in.)	LWD Run No.	Remark
1	7062	8.750	1	The interval from surface to 7062 feet MD (6980 feet TVD) was not logged since logging services began with the start of drilling with the curve assembly for run 1.

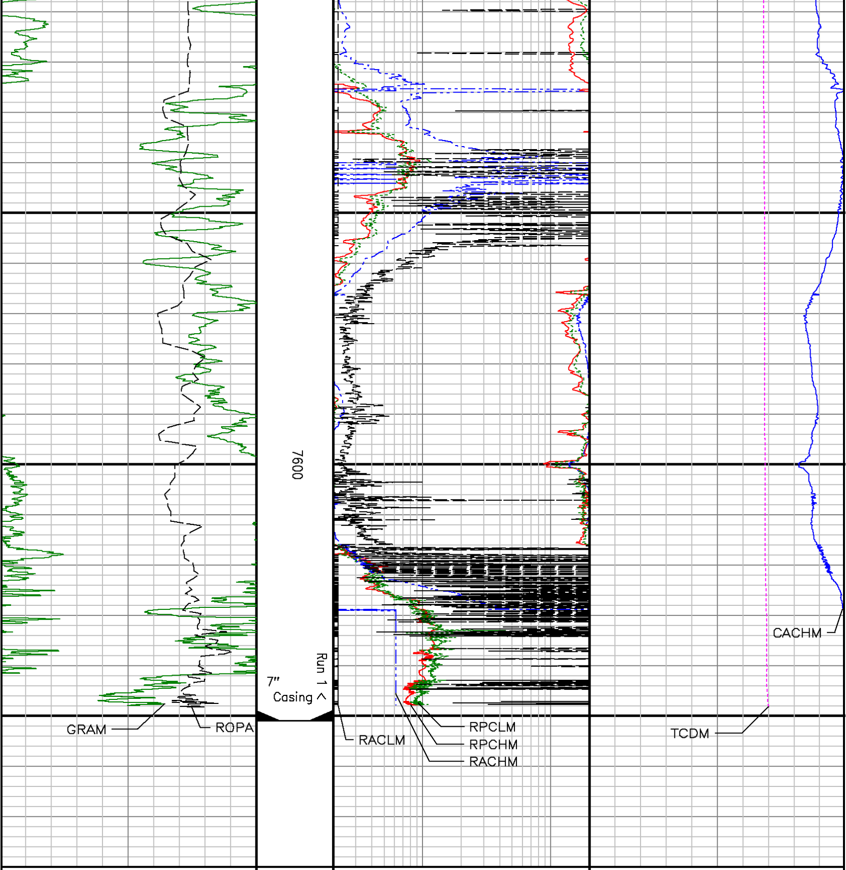
BAKER HUGHES

Company : Anadarko
Well : UNDERHILL 27N-17HZ
Interval : 6950.00 - 7680.00 feet
Created : 01/Aug/2013 7:12:05 AM









Gamma Ray Apparent 0.5 ft Avg GRAM
0 150
API

Rate of Penetration 3.0 ft Avg ROPAVG3
500 0
ft/hr

TVD feet 1:240

Res PD LS 2MHz Corr RPCHM
0.2 20
ohm.m

Res PD LS 400kHz Corr RPCLM
0.2 20
ohm.m

Res AT LS 2MHz Corr RACHM
0.2 20
ohm.m

Res AT LS 400kHz Corr RACLM
0.2 20
ohm.m

Downhole Temperature TCDM
0 250
degF

Con AT LS 2MHz Corr CACHM
400 0
mmho/m

ADVANTAGE Final Survey Listing

Operator	:Anadarko	Field	: WELD COUNTY (KERR MCGEE)	API No	: 051233691500
Well	:UNDERHILL 27N-17HZ	Rig	: Xteme 24	Job	:5589936
Wellbore	: UNDERHILL 27N-17HZ Orig Hole				

Well Origin

Latitude	40.0461 deg	Longitude	−104.9086 deg
North Reference	True	Drill Depth Zero	NULL
Vertical Datum is	Mean Sea Level	Vertical Datum to DDZ	5119.00 ft
Vertical Section North	0.00 ft	Vertical Section East	0.00 ft
Vertical Section Azimuth	359.8800 deg	Vertical Section Depth	0.00ft
Grid Convergence	0.0000 deg	Magnetic Declination	8.5100 deg
Total Correction	8.5100 deg	TVD Calculation Method	Minimal Curvature
D-Raw Calculation	Magcorr1	Local Magnetic Field	52930 nT
Local Magnetic Dip Angle	66.5000 deg	Local Gravity Field	9.802 m/s^2

Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	0.00	0.0000	0.0000	0.00	0.00	0.00	0.00	0.00				
U	876.00	1.8400	52.4800	9.82	8.48	875.87	9.80		876.00			
	990.00	1.8600	50.7300	12.11	11.36	989.81	12.08	3.68	114.00	0.05	0.02	−1.54
	1084.00	1.2400	97.9700	12.93	13.55	1083.78	12.90	6.02	94.00	1.45	−0.66	50.26
	1178.00	1.5300	177.1500	11.54	14.62	1177.76	11.51	7.78	94.00	1.89	0.31	84.23
	1272.00	3.1900	216.6700	8.18	13.12	1271.68	8.16	11.45	94.00	2.38	1.77	42.04
	1366.00	5.3500	223.5300	2.91	8.54	1365.42	2.89	18.43	94.00	2.36	2.30	7.30
	1460.00	7.2700	219.9600	−4.83	1.70	1458.84	−4.83	28.76	94.00	2.08	2.04	−3.80
	1554.00	9.2800	220.4300	−15.16	−7.03	1551.86	−15.14	42.29	94.00	2.14	2.14	0.50
	1649.00	11.6600	218.7500	−28.48	−18.01	1645.27	−28.44	59.55	95.00	2.53	2.51	−1.77
	1743.00	12.3600	211.5100	−44.46	−29.22	1737.22	−44.40	79.07	94.00	1.77	0.74	−7.70
	1837.00	12.8000	203.0500	−62.62	−38.55	1828.97	−62.54	99.49	94.00	2.01	0.47	−9.00
	1931.00	12.2800	203.5300	−81.37	−46.62	1920.73	−81.27	119.90	94.00	0.56	−0.55	0.51
	2026.00	12.4800	200.2700	−100.26	−54.21	2013.52	−100.15	140.26	95.00	0.77	0.21	−3.43
	2117.00	11.9400	198.4200	−118.42	−60.59	2102.46	−118.29	159.50	91.00	0.73	−0.59	−2.03
	2208.00	11.8200	196.4600	−136.29	−66.21	2191.51	−136.15	178.23	91.00	0.46	−0.13	−2.15
	2300.00	11.2100	195.6300	−153.93	−71.28	2281.66	−153.79	196.60	92.00	0.69	−0.66	−0.90
	2391.00	10.9000	196.4400	−170.71	−76.10	2370.97	−170.55	214.05	91.00	0.38	−0.34	0.89
	2482.00	10.5300	204.2300	−186.54	−81.95	2460.39	−186.37	230.93	91.00	1.64	−0.41	8.56
	2573.00	11.8900	203.3700	−202.73	−89.08	2549.65	−202.54	248.62	91.00	1.51	1.49	−0.95
	2664.00	11.1700	204.9700	−219.33	−96.52	2638.81	−219.12	266.81	91.00	0.87	−0.79	1.76
	2755.00	11.3000	207.9300	−235.19	−104.42	2728.07	−234.97	284.53	91.00	0.65	0.14	3.25
	2847.00	11.3200	208.0100	−251.13	−112.88	2818.28	−250.89	302.57	92.00	0.03	0.02	0.09
	2937.00	11.9500	204.2800	−267.42	−120.86	2906.43	−267.17	320.71	90.00	1.09	0.70	−4.14
	3028.00	11.7300	204.2600	−284.44	−128.54	2995.50	−284.17	339.38	91.00	0.24	−0.24	−0.02
	3120.00	12.8700	202.9900	−302.40	−136.38	3085.39	−302.11	358.98	92.00	1.27	1.24	−1.38
	3212.00	12.1700	203.4700	−320.73	−144.24	3175.20	−320.43	378.93	92.00	0.77	−0.76	0.52
	3303.00	12.6700	203.7700	−338.66	−152.09	3264.07	−338.34	398.50	91.00	0.55	0.55	0.33
	3395.00	12.6400	203.3900	−357.13	−160.15	3353.83	−356.80	418.65	92.00	0.10	−0.03	−0.41
	3487.00	12.6200	202.5400	−375.65	−168.00	3443.61	−375.30	438.77	92.00	0.20	−0.02	−0.92
	3578.00	13.2200	203.4900	−394.38	−175.96	3532.30	−394.01	459.11	91.00	0.70	0.66	1.04
	3670.00	12.2600	204.7000	−412.90	−184.23	3622.04	−412.51	479.40	92.00	1.08	−1.04	1.32
	3764.00	10.8300	204.8800	−429.98	−192.12	3714.13	−429.58	498.21	94.00	1.52	−1.52	0.19
	3857.00	9.8400	208.0300	−444.92	−199.53	3805.62	−444.50	514.89	93.00	1.23	−1.06	3.39
	3950.00	10.8900	203.3600	−460.00	−206.75	3897.11	−459.57	531.61	93.00	1.45	1.13	−5.02
	4044.00	9.8800	204.7000	−475.48	−213.64	3989.56	−475.03	548.55	94.00	1.10	−1.07	1.43
	4137.00	8.9200	202.9300	−489.37	−219.78	4081.31	−488.91	563.74	93.00	1.08	−1.03	−1.90
	4230.00	10.0600	200.0200	−503.64	−225.37	4173.04	−503.17	579.07	93.00	1.33	1.23	−3.13
	4324.00	9.4100	201.2200	−518.52	−230.96	4265.69	−518.04	594.96	94.00	0.72	−0.69	1.28
	4417.00	9.4300	202.6400	−532.64	−236.65	4357.43	−532.14	610.18	93.00	0.25	0.02	1.53

Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	4510.00	8.9800	202.7000	−546.37	−242.38	4449.24	−545.86	625.06	93.00	0.48	−0.48	0.06
	4603.00	8.7600	204.1000	−559.53	−248.07	4541.12	−559.01	639.40	93.00	0.33	−0.24	1.51
	4697.00	9.7200	203.7100	−573.33	−254.19	4633.90	−572.79	654.49	94.00	1.02	1.02	−0.41
	4782.00	9.2400	204.7200	−586.10	−259.93	4717.74	−585.55	668.49	85.00	0.60	−0.56	1.19
	4868.00	9.2600	206.7700	−598.55	−265.93	4802.62	−597.99	682.31	86.00	0.38	0.02	2.38
	4953.00	9.6400	208.2500	−610.92	−272.38	4886.47	−610.35	696.27	85.00	0.53	0.45	1.74
	5038.00	9.8600	209.0700	−623.55	−279.28	4970.24	−622.96	710.66	85.00	0.31	0.26	0.96
	5124.00	9.6700	208.5900	−636.33	−286.32	5055.00	−635.73	725.25	86.00	0.24	−0.22	−0.56
	5209.00	8.9600	207.1500	−648.49	−292.75	5138.87	−647.87	739.01	85.00	0.88	−0.84	−1.69
	5294.00	8.7000	207.4800	−660.08	−298.74	5222.87	−659.45	752.05	85.00	0.31	−0.31	0.39
	5379.00	10.8800	205.1000	−673.05	−305.11	5306.62	−672.41	766.50	85.00	2.61	2.56	−2.80
	5464.00	10.8300	204.1900	−687.60	−311.79	5390.10	−686.94	782.51	85.00	0.21	−0.06	−1.07
	5549.00	10.1100	203.0800	−701.75	−317.98	5473.69	−701.08	797.96	85.00	0.88	−0.85	−1.31
	5634.00	10.1400	199.4400	−715.67	−323.40	5557.37	−714.99	812.89	85.00	0.75	0.04	−4.28
	5719.00	9.7700	195.6900	−729.66	−327.84	5641.09	−728.98	827.58	85.00	0.88	−0.44	−4.41
	5804.00	9.3200	195.9300	−743.23	−331.68	5724.91	−742.53	841.67	85.00	0.53	−0.53	0.28
	5889.00	7.9000	198.5100	−755.38	−335.42	5808.95	−754.68	854.39	85.00	1.73	−1.67	3.04
	5975.00	6.4500	200.0100	−765.53	−338.95	5894.27	−764.82	865.13	86.00	1.70	−1.69	1.74
	6060.00	4.5700	207.0000	−773.03	−342.12	5978.88	−772.31	873.28	85.00	2.34	−2.21	8.22
	6145.00	4.1200	199.8000	−778.92	−344.69	6063.63	−778.20	879.71	85.00	0.83	−0.53	−8.47
	6230.00	3.1800	209.0300	−783.86	−346.87	6148.46	−783.13	885.10	85.00	1.30	−1.11	10.86
	6316.00	2.0000	209.8700	−787.24	−348.78	6234.37	−786.51	888.99	86.00	1.37	−1.37	0.98
	6401.00	0.4900	314.5100	−788.28	−349.78	6319.36	−787.54	890.42	85.00	2.56	−1.78	123.11
	6657.00	0.4800	319.0800	−786.70	−351.26	6575.35	−785.96	892.59	256.00	0.02	−0.00	1.79
	6998.00	0.1200	295.6200	−785.46	−352.52	6916.34	−784.72	894.35	341.00	0.11	−0.11	−6.88
	7083.00	0.0600	161.3700	−785.47	−352.58	7001.34	−784.73	894.42	85.00	0.20	−0.07	−157.94
	7126.00	2.1100	358.7900	−784.70	−352.59	7044.33	−783.96	895.19	43.00	5.04	4.77	−378.09
	7168.00	8.2200	1.8100	−780.92	−352.51	7086.14	−780.18	898.96	42.00	14.56	14.55	7.19
	7211.00	15.3800	2.1200	−772.14	−352.21	7128.20	−771.40	907.75	43.00	16.65	16.65	0.72
	7253.00	19.4400	2.4400	−759.58	−351.70	7168.27	−758.85	920.32	42.00	9.67	9.67	0.76
	7296.00	19.0400	2.2700	−745.43	−351.12	7208.87	−744.69	934.49	43.00	0.94	−0.93	−0.40
	7339.00	20.5100	0.1300	−730.88	−350.82	7249.33	−730.15	949.03	43.00	3.81	3.42	−4.98
	7381.00	24.1800	359.7800	−714.92	−350.84	7288.17	−714.18	965.00	42.00	8.74	8.74	−0.83
	7424.00	28.3600	1.1200	−695.89	−350.67	7326.72	−695.16	984.02	43.00	9.82	9.72	3.12
	7466.00	32.5100	1.7300	−674.63	−350.14	7362.93	−673.90	1005.29	42.00	9.91	9.88	1.45
	7509.00	36.3000	3.6600	−650.37	−348.98	7398.40	−649.64	1029.58	43.00	9.17	8.81	4.49
	7551.00	39.2300	2.6800	−624.69	−347.56	7431.60	−623.96	1055.30	42.00	7.12	6.98	−2.33
	7594.00	43.1600	1.1300	−596.39	−346.64	7463.95	−595.66	1083.61	43.00	9.44	9.14	−3.60
	7636.00	46.9500	0.1400	−566.67	−346.31	7493.62	−565.94	1113.34	42.00	9.18	9.02	−2.36
	7678.00	52.0900	0.9800	−534.74	−345.99	7520.87	−534.01	1145.27	42.00	12.33	12.24	2.00
	7721.00	56.8300	1.7000	−499.77	−345.17	7545.86	−499.04	1180.25	43.00	11.11	11.02	1.67
	7763.00	59.7100	1.2400	−464.06	−344.25	7567.95	−463.34	1215.97	42.00	6.92	6.86	−1.10
	7806.00	62.8900	359.9200	−426.35	−343.88	7588.59	−425.63	1253.68	43.00	7.87	7.40	−3.07
	7848.00	68.1600	0.5600	−388.14	−343.72	7605.99	−387.42	1291.89	42.00	12.62	12.55	1.52
	7891.00	74.3500	0.7100	−347.44	−343.26	7619.80	−346.72	1332.59	43.00	14.40	14.40	0.35
	7933.00	78.0200	1.0300	−306.67	−342.64	7629.83	−305.95	1373.37	42.00	8.77	8.74	0.76
	7975.00	80.0300	0.8800	−265.45	−341.96	7637.82	−264.73	1414.60	42.00	4.80	4.79	−0.36
	8018.00	83.4600	1.3400	−222.91	−341.13	7644.00	−222.19	1457.15	43.00	8.05	7.98	1.07
	8061.00	87.3200	1.1000	−180.06	−340.22	7647.45	−179.35	1500.00	43.00	8.99	8.98	−0.56
	8132.00	92.4600	1.3700	−109.10	−338.69	7647.59	−108.39	1570.98	71.00	7.25	7.24	0.38
	8218.00	93.2700	0.4100	−23.22	−337.35	7643.29	−22.52	1656.87	86.00	1.46	0.94	−1.12
	8303.00	94.6100	1.1600	61.57	−336.19	7637.45	62.27	1741.66	85.00	1.81	1.58	0.88
	8388.00	94.6200	0.1400	146.28	−335.23	7630.61	146.99	1826.39	85.00	1.20	0.01	−1.20
	8473.00	93.9400	359.1500	231.04	−335.76	7624.27	231.75	1911.15	85.00	1.41	−0.80	−1.16
	8558.00	92.4300	358.5100	315.89	−337.49	7619.54	316.60	1996.01	85.00	1.93	−1.78	−0.75
	8644.00	92.0600	358.8600	401.80	−339.46	7616.18	402.51	2081.95	86.00	0.59	−0.43	0.41
	8729.00	92.6100	358.9600	486.72	−341.08	7612.71	487.43	2166.88	85.00	0.66	0.65	0.12
	8814.00	91.2300	358.4500	571.64	−343.00	7609.86	572.36	2251.83	85.00	1.73	−1.62	−0.60
	8900.00	90.9800	358.0500	657.59	−345.62	7608.21	658.31	2337.81	86.00	0.55	−0.29	−0.47
	8985.00	91.0400	358.4200	742.53	−348.24	7606.71	743.26	2422.80	85.00	0.44	0.07	0.44

Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	9070.00	91.0100	358.0500	827.48	−350.86	7605.19	828.21	2507.78	85.00	0.44	−0.04	−0.44
	9155.00	90.9500	357.6100	912.41	−354.08	7603.73	913.15	2592.77	85.00	0.52	−0.07	−0.52
	9240.00	91.2600	357.6900	997.32	−357.56	7602.09	998.07	2677.75	85.00	0.38	0.36	0.09
	9325.00	92.5200	357.8800	1082.21	−360.85	7599.29	1082.96	2762.71	85.00	1.50	1.48	0.22
	9410.00	92.0600	357.5300	1167.07	−364.25	7595.89	1167.83	2847.64	85.00	0.68	−0.54	−0.41
	9495.00	91.8700	357.0200	1251.93	−368.29	7592.98	1252.69	2932.59	85.00	0.64	−0.22	−0.60
	9580.00	92.4600	357.7700	1336.78	−372.15	7589.77	1337.55	3017.53	85.00	1.12	0.69	0.88
	9665.00	92.7400	358.8600	1421.65	−374.64	7585.91	1422.43	3102.44	85.00	1.32	0.33	1.28
	9751.00	91.9700	359.4200	1507.57	−375.93	7582.38	1508.35	3188.36	86.00	1.11	−0.90	0.65
	9836.00	92.2400	359.3200	1592.50	−376.87	7579.26	1593.29	3273.31	85.00	0.34	0.32	−0.12
	9921.00	90.9200	359.8100	1677.47	−377.51	7576.91	1678.25	3358.27	85.00	1.66	−1.55	0.58
	10006.00	90.4900	0.1800	1762.46	−377.52	7575.87	1763.25	3443.27	85.00	0.67	−0.51	0.44
	10092.00	91.7800	0.2400	1848.44	−377.20	7574.16	1849.23	3529.25	86.00	1.50	1.50	0.07
	10177.00	92.0500	0.7000	1933.39	−376.51	7571.32	1934.17	3614.20	85.00	0.63	0.32	0.54
	10262.00	93.3200	1.6500	2018.28	−374.77	7567.34	2019.06	3699.10	85.00	1.87	1.49	1.12
	10348.00	94.0300	1.9600	2104.06	−372.06	7561.83	2104.83	3784.93	86.00	0.90	0.83	0.36
	10433.00	95.1500	1.9800	2188.73	−369.15	7555.03	2189.50	3869.65	85.00	1.32	1.32	0.02
	10518.00	94.8200	1.5400	2273.37	−366.55	7547.64	2274.13	3954.33	85.00	0.65	−0.39	−0.52
	10603.00	93.8700	0.9000	2358.11	−364.75	7541.20	2358.86	4039.08	85.00	1.35	−1.12	−0.75
	10689.00	93.3300	2.0500	2443.91	−362.54	7535.80	2444.66	4124.91	86.00	1.47	−0.63	1.34
	10774.00	91.8100	1.1500	2528.78	−360.17	7531.99	2529.53	4209.82	85.00	2.08	−1.79	−1.06
	10859.00	92.3000	0.8800	2613.72	−358.66	7528.94	2614.46	4294.77	85.00	0.66	0.58	−0.32
	10944.00	91.6300	1.0200	2698.65	−357.25	7526.03	2699.40	4379.72	85.00	0.81	−0.79	0.16
	11030.00	91.9500	0.5800	2784.60	−356.05	7523.34	2785.34	4465.68	86.00	0.63	0.37	−0.51
	11115.00	90.9500	1.5300	2869.56	−354.49	7521.19	2870.30	4550.65	85.00	1.62	−1.18	1.12
	11200.00	91.1900	0.9900	2954.52	−352.62	7519.60	2955.26	4635.63	85.00	0.70	0.28	−0.64
	11285.00	91.3500	1.5600	3039.48	−350.73	7517.72	3040.21	4720.61	85.00	0.70	0.19	0.67
	11370.00	91.2600	1.2400	3124.43	−348.65	7515.78	3125.16	4805.59	85.00	0.39	−0.11	−0.38
	11455.00	91.1700	1.0300	3209.40	−346.97	7513.98	3210.12	4890.57	85.00	0.27	−0.11	−0.25
	11539.00	91.1000	0.5700	3293.37	−345.80	7512.32	3294.09	4974.55	84.00	0.55	−0.08	−0.55
	11624.00	91.0700	0.6300	3378.35	−344.91	7510.71	3379.07	5059.54	85.00	0.08	−0.04	0.07
	11709.00	91.2300	0.1400	3463.33	−344.34	7509.00	3464.05	5144.52	85.00	0.61	0.19	−0.58
	11794.00	91.3500	0.0300	3548.31	−344.21	7507.09	3549.03	5229.50	85.00	0.19	0.14	−0.13
	11879.00	91.8100	359.1800	3633.28	−344.79	7504.74	3633.99	5314.46	85.00	1.14	0.54	−1.00
	11964.00	91.9600	359.3300	3718.22	−345.90	7501.95	3718.94	5399.42	85.00	0.25	0.18	0.18
	12050.00	91.9000	359.3000	3804.17	−346.93	7499.05	3804.89	5485.37	86.00	0.08	−0.07	−0.03
	12144.00	91.9300	359.3300	3898.11	−348.05	7495.91	3898.83	5579.32	94.00	0.05	0.03	0.03
Projection to TD:												
	12201.00	91.9300	359.3300	3955.07	−348.72	7493.99	3955.79	5636.28	57.00	0.00	0.00	0.00