

Location: Ohio County, WV
Field: Ohio VW
Facility: Carl Rotter OHI Pad

Slot: Slot 210H
Well: Carl Rotter OHI 210H
Wellbore: Carl Rotter OHI 210H AWB

Plot reference wellpath is Carl Rotter OHI 210H AWB_ awp 100' - 21632' - Proj: 21557'	Grid System: NAD83 / UTM Zone 17 North, US feet
True vertical depths are referenced to SDC 40 (KB)	North Reference: Grid north
Reference wellpath measured depths are referenced to SDC 40 (KB)	Scale: True distance
SDC 40 (KB) to Mean Sea Level: 1362.7 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot 210H): -1336.7 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: tranlam on 2022-05-23; Database: WA_MPL_EASTERNUS_Defn

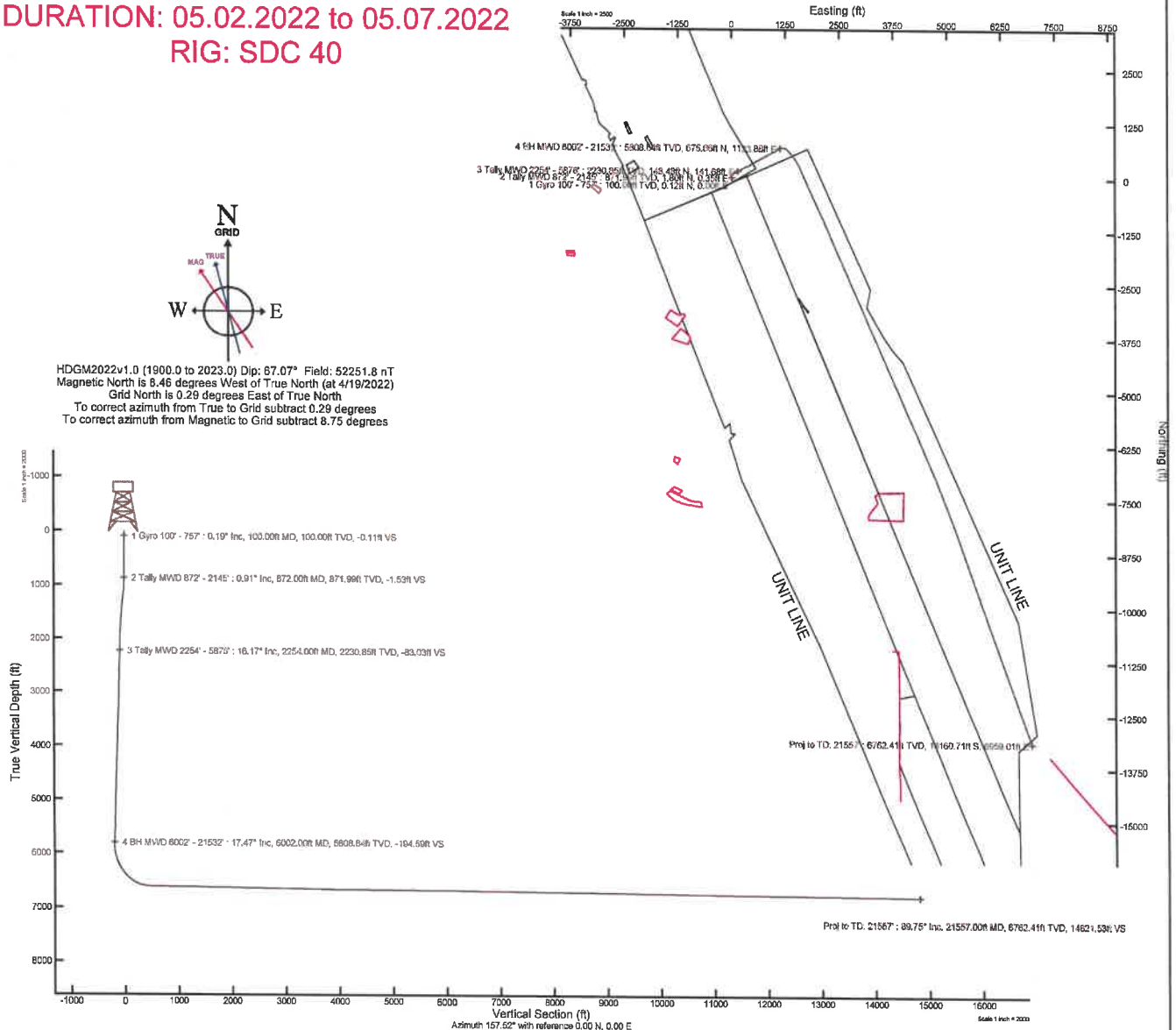
Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Carl Rotter OHI Pad			1768372.772	14564065.056	40°06'5.8140"N	80°32'32.7080"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot 210H	-12.50	-25.14	1768347.640	14564052.560	40°06'5.6917"N	80°32'33.0324"W
SDC 40 (KB) to Ground level (At Slot: Slot 210H)					26ft	
Mean Sea Level to Ground level (At Slot: Slot 210H)					-1336.7ft	
SDC 40 (KB) to Mean Sea Level					1362.7ft	

Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
21557.00	89.750	160.530	6762.41	-13160.71	6959.01	1775303.98	14550996.89	40°03'55.2741"N	80°31'4.3978"W

API:47069003310000
BH JOB:111260097
DURATION: 05.02.2022 to 05.07.2022
RIG: SDC 40



Carl Riehn	2022-05-02	2022-05-05	Christian Donharl	2022-05-02	2022-05-06	Cruz Bonds	2022-05-02	2022-05-06
John Carlson	2022-05-02	2022-05-06	Chris Campbell	2022-05-05	2022-05-07	Ronald Marquez	2022-05-05	2022-05-06

Witness

Name	Run
Jack Hamm	1,2

Mud Properties Record

Date / Time	Run No.	Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2022-05-02 22:11	1	5950.00	Oil Based Mud	13.3	19	N/A	7.5	78/22	Active Pit	26000	N/A
2022-05-03 09:54	2	5950.00	Oil Based Mud	13.3	19	N/A	7.5	78/22	Active Pit	26000	N/A
2022-05-04 02:54	2	6600.00	Oil Based Mud	12.9	18	N/A	8.0	79/21	Active Pit	26500	N/A

Equipment and Service Data

Run No.	Tool	Serial Number	Measurement	Sensor Offset (ft)	Bit Offset (ft)	Max O.D. (in)	Min I.D. (in)
1	AutoTrak Curve Steering Unit	14907521	Near Bit Inclination	5.93	6.93	6.750	4.330
1	AutoTrak Curve Steering Unit	14907521	Near Bit VSS	5.93	6.93	6.750	4.330
1	AutoTrak Curve MWD	12600028	Gamma (single)	2.78	13.10	6.750	3.250
1	AutoTrak Curve MWD	12600028	Directional (mag)	12.30	22.62	6.750	3.250
2	AutoTrak Curve Steering Unit	15125855	Near Bit Inclination	5.93	6.93	6.750	4.330
2	AutoTrak Curve Steering Unit	15125855	Near Bit VSS	5.93	6.93	6.750	4.330
2	AutoTrak Curve MWD	14219791	Gamma (single)	2.20	12.52	6.750	3.250
2	AutoTrak Curve MWD	14219791	Directional (mag)	12.27	22.59	6.750	3.250

Service and Tool Mnemonics

Mnemonic	Name	Description
ATC SU	AutoTrak Curve SU	Auto Trak Curve Steering Unit
ATC MWD	AutoTrak Curve MWD	Auto Trak Curve MWD
ATC LCPM	AutoTrak Curve LCPM	Auto Trak Curve LCPM

Comments

- Baker Hughes Company runs 1 and 2 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 1/2 inch PDC bit and rotary steerable assembly from 5950 to 21557 feet MD (5759 to 6762 feet TVD).
- Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes Company. Due to a lack of control by Baker Hughes Company logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes Company are being used to present logging data.

Remarks

Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	5950.00	8.500	1	Baker Hughes Company run 1 was tripped out of the hole due to tool failure before drilling commenced; therefore, no logging data was acquired for this run.
2	21544.00	8.500	2	The interval from 21544 to 21557 feet MD (6762 to 6762 feet TVD) was not logged due to sensor to bit offset at well TD.

Curve Mnemonics

Presented Curves	Description	Units
GRADX	Gamma Ray - Apparent - Down Quadrant - Real-Time 3 ft Average	API
GRAUX	Gamma Ray - Apparent - Up Quadrant - Real-Time 3 ft Average	API
ROP_AVG	Depth Averaged ROP 3 ft Average	ft/h
GRAX	Gamma Ray - Apparent - Real-Time 3 ft Average	API



Company SWN Production Company, LLC
Well Carl Rotter OHI 210H

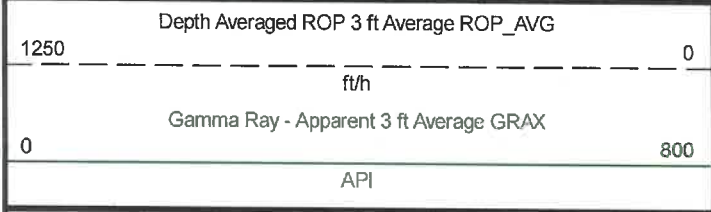
Date From: 2022-05-03 02:14 Interval Drilled: (ft) 5950.00 - 21557.00

10/21/2022

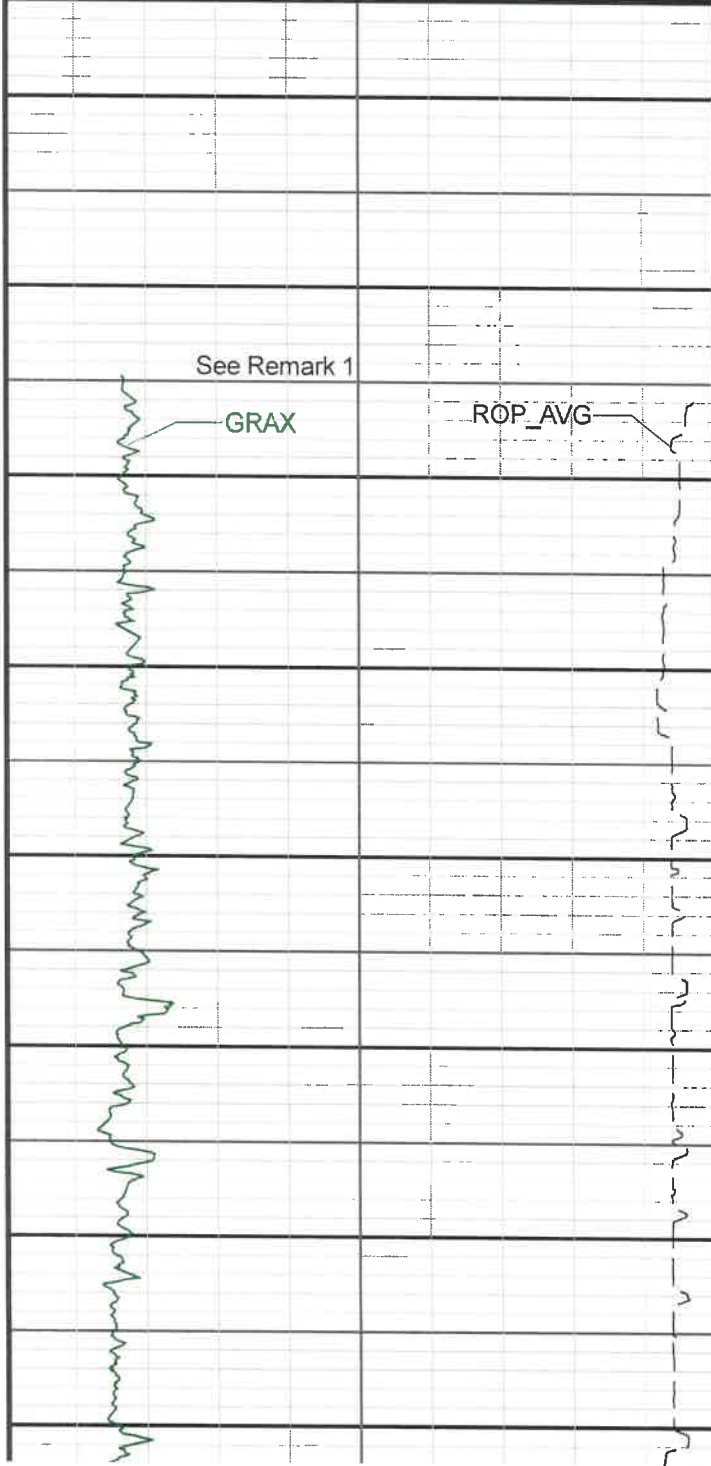
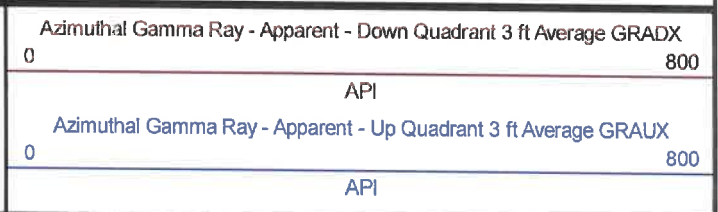
Interval
Created

Date To: 2022-05-06 12:27
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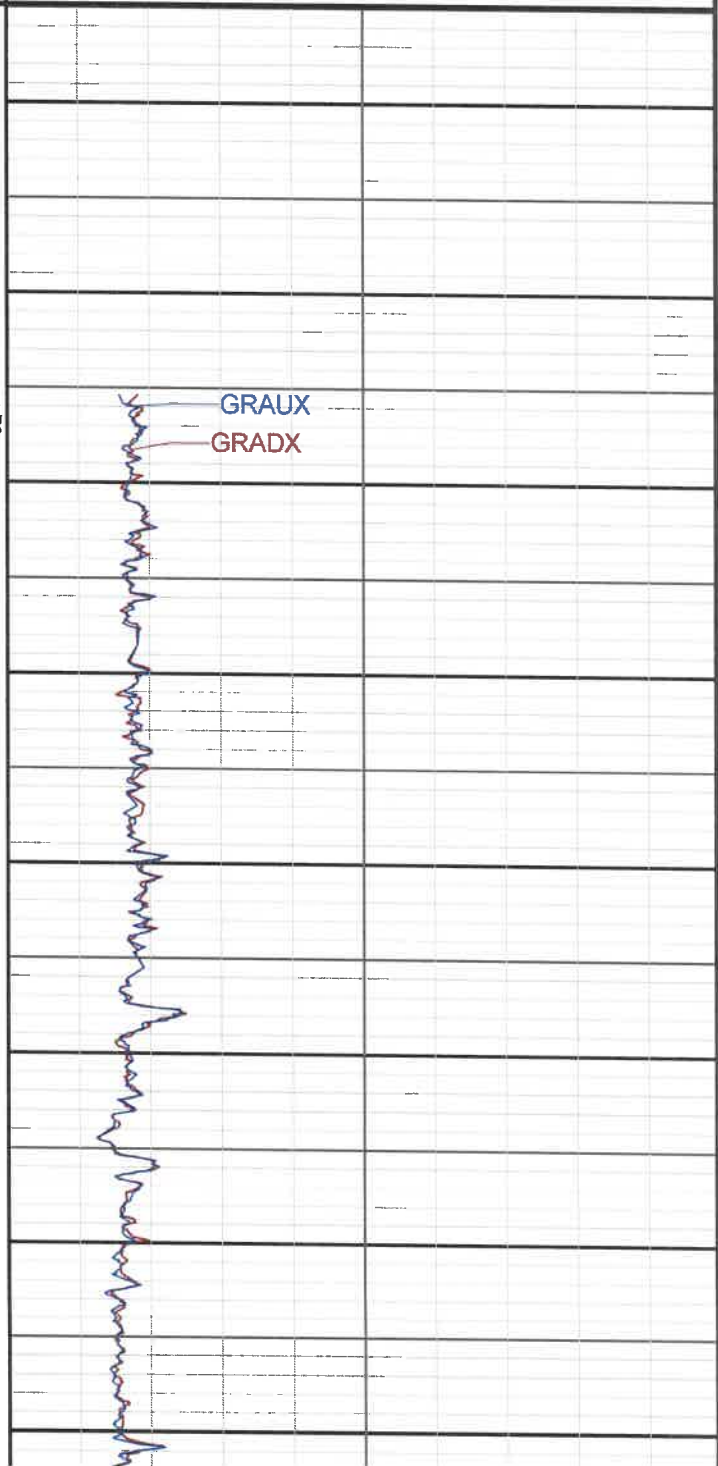
Interval Logged: (ft) 5937.00 - 21544.00

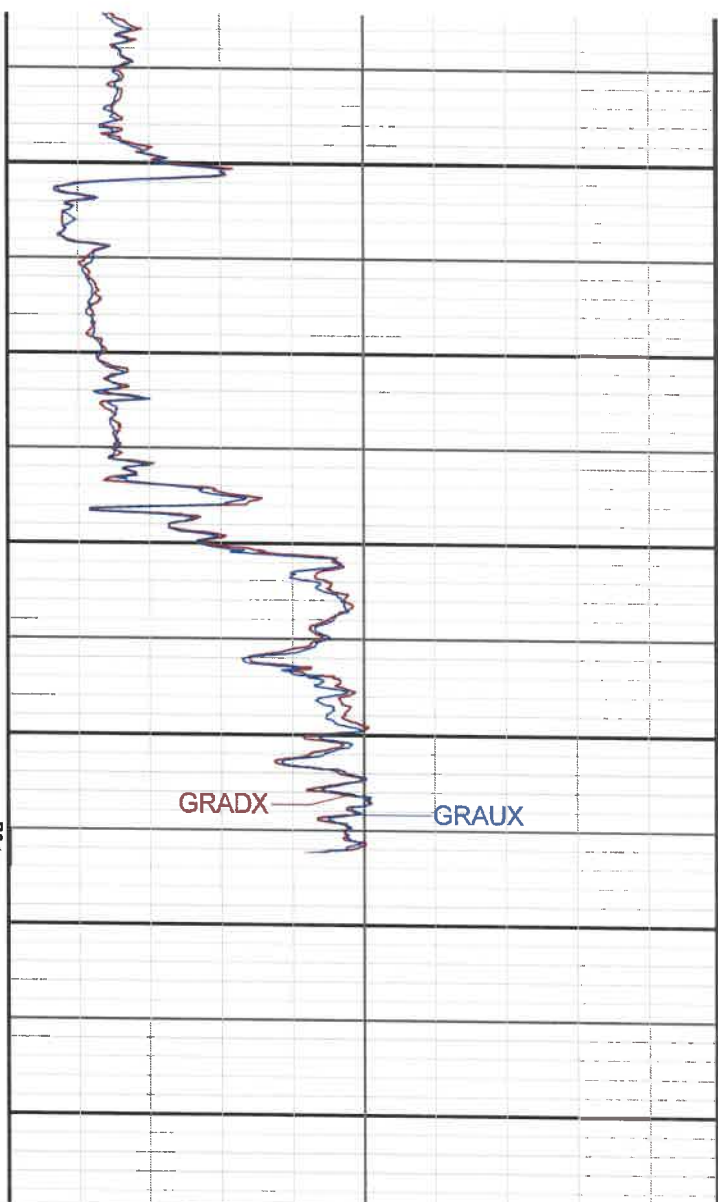
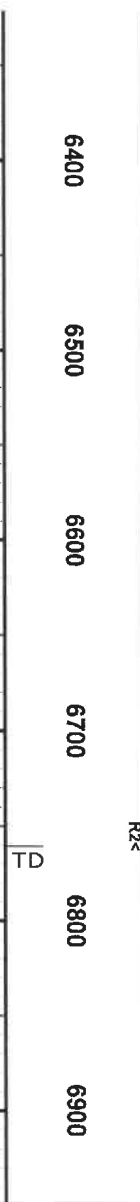
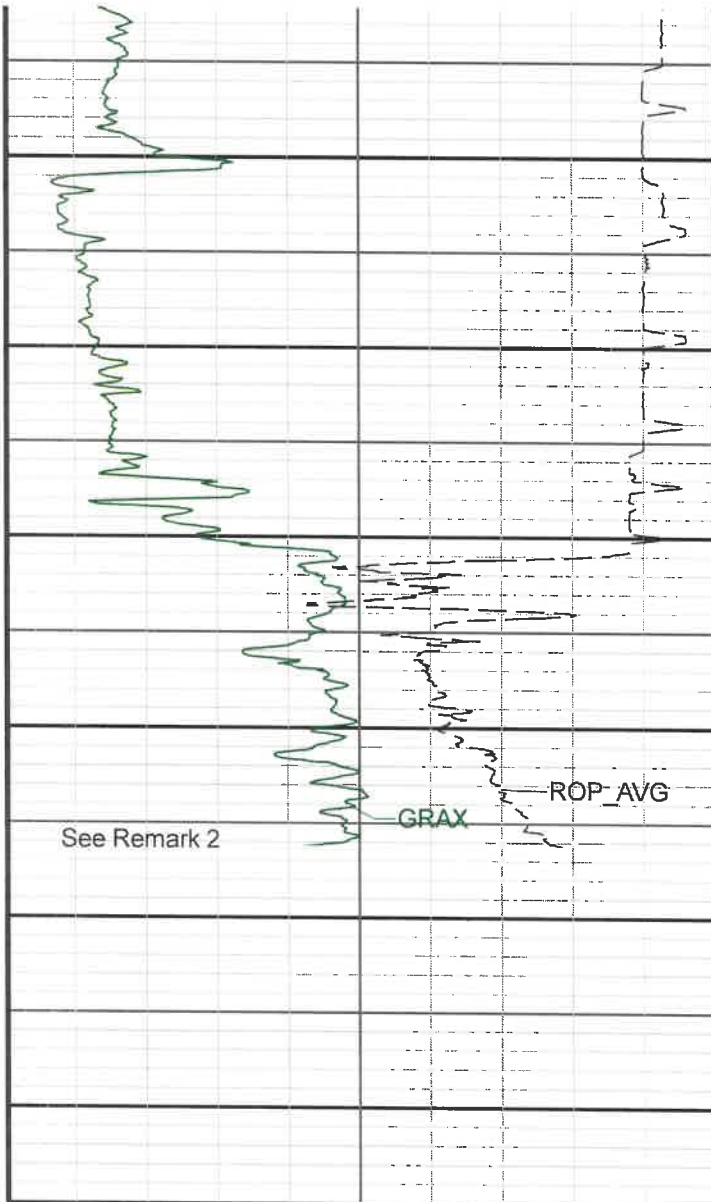


TVD 1:1200 feet



5600
5700
5800
5900
6000
6100
6200
6300





Azimuthal Gamma Ray - Apparent - Down Quadrant 3 ft Average GRADX	
0	800
API	
Azimuthal Gamma Ray - Apparent - Up Quadrant 3 ft Average GRAUX	
0	800
API	

Depth Averaged ROP 3 ft Average ROP_AVG	
1250	0
ft/h	
Gamma Ray - Apparent 3 ft Average GRAX	
0	800
API	

TVD 1:1200 feet

Directional Survey Summary													
Latitude:	40° 06' 05.692" N				Longitude:	80° 32' 33.032" W							
North Reference:	Grid				Drill Depth Zero:	Rig Floor							
Vertical Datum is:	Ground Level				Vertical Datum to DDZ: (ft)	26.00							
Vertical Section North: (ft)	0.00				Vertical Section East: (ft)	0.00							
Vertical Section Azimuth: (deg)	157.52				Magnetic Declination: (deg)	-8.46							
Grid Convergence: (deg)	-0.29				TVD Calculation Method:	Minimum Curvature							
Total Correction: (deg)	-8.75				Local Magnetic Field: (nT)	52252							
Magnetic Correction:	Off				Local Gravity Field: (m/s ²)	9.803							
Local Magnetic Dip Angle: (deg)	67.07												
Tie-In /	Measured	Inclination	Azimuth	Temperature	North	East	True Vertical	TVD.Subsea	Vertical	Course	Dog Leg	Build Rate	Turn Rate

Projection	Depth (ft)	(deg)	(deg)	(degF)	(ft)	(ft)	Depth (ft)	(ft)	Section (ft)	Length (ft)	Severity (deg/100ft)	(deg/100ft)	(deg/100ft)
Surface	0.00	0.00	1.09	N/A	0.00	0.00	0.00	-1362.70	0.00	0.00	0.00	0.00	0.00
	26.00	0.00	1.09	N/A	0.00	0.00	26.00	-1336.70	0.00	26.00	0.00	0.00	0.00
	100.00	0.19	1.09	N/A	0.12	0.00	100.00	-1262.70	-0.11	74.00	0.26	0.26	0.00
	200.00	0.11	351.06	N/A	0.38	-0.01	200.00	-1162.70	-0.36	100.00	0.08	-0.08	-10.03
	300.00	0.05	70.39	N/A	0.49	0.02	300.00	-1062.70	-0.45	100.00	0.11	-0.06	79.33
	400.00	0.07	52.57	N/A	0.54	0.11	400.00	-962.70	-0.46	100.00	0.03	0.02	-17.82
	500.00	0.05	7.82	N/A	0.62	0.16	500.00	-862.70	-0.52	100.00	0.05	-0.02	-44.75
	600.00	0.06	52.01	N/A	0.70	0.21	600.00	-762.70	-0.57	100.00	0.04	0.01	44.19
	700.00	0.13	87.37	N/A	0.74	0.36	700.00	-662.70	-0.54	100.00	0.09	0.07	35.36
	757.00	0.10	357.25	N/A	0.79	0.42	757.00	-605.70	-0.57	57.00	0.29	-0.05	-158.11
	872.00	0.91	355.83	N/A	1.80	0.35	871.99	-490.71	-1.53	115.00	0.70	0.70	-1.23
	963.00	2.24	351.82	N/A	4.28	0.05	962.96	-399.74	-3.94	91.00	1.47	1.46	-4.41
	1055.00	4.19	345.07	N/A	9.31	-1.07	1054.81	-307.89	-9.01	92.00	2.16	2.12	-7.34
	1147.00	6.35	342.41	N/A	17.41	-3.48	1146.41	-216.29	-17.42	92.00	2.36	2.35	-2.89
	1238.00	6.76	350.15	N/A	27.48	-5.91	1236.82	-125.88	-27.66	91.00	1.07	0.45	8.51
	1329.00	6.49	5.33	N/A	37.88	-6.35	1327.22	-35.48	-37.43	91.00	1.94	-0.30	16.68
	1420.00	6.61	25.86	N/A	47.72	-3.59	1417.64	54.94	-45.46	91.00	2.56	0.13	22.56
	1511.00	7.85	36.06	N/A	57.45	2.35	1507.92	145.22	-52.19	91.00	1.96	1.36	11.21
	1602.00	9.69	39.66	N/A	68.37	10.90	1597.85	235.15	-59.01	91.00	2.11	2.02	3.96
	1692.00	11.19	46.17	N/A	80.25	22.03	1686.36	323.66	-65.73	90.00	2.12	1.67	7.23
	1783.00	12.26	51.98	N/A	92.32	36.02	1775.46	412.76	-71.53	91.00	1.75	1.18	6.38
	1874.00	13.72	57.03	N/A	104.15	52.68	1864.14	501.44	-76.09	91.00	2.03	1.60	5.55
	1964.00	14.86	61.79	N/A	115.41	71.81	1951.35	588.65	-79.18	90.00	1.82	1.27	5.29
	2055.00	15.23	65.50	N/A	125.88	92.97	2039.23	676.53	-80.77	91.00	1.13	0.41	4.08
	2145.00	15.57	65.83	N/A	135.73	114.74	2126.00	763.30	-81.54	90.00	0.39	0.38	0.37
	2254.00	16.17	63.54	N/A	148.48	141.68	2230.85	868.15	-83.03	109.00	0.80	0.55	-2.10
	2345.00	17.26	61.56	N/A	160.56	184.89	2318.00	955.30	-85.31	91.00	1.35	1.20	-2.18
	2436.00	18.26	59.90	N/A	174.14	189.10	2404.67	1041.97	-88.60	91.00	1.23	1.10	-1.82
	2527.00	18.32	60.59	N/A	188.31	213.89	2491.07	1128.37	-92.22	91.00	0.25	0.07	0.76
	2619.00	17.36	63.19	N/A	201.60	238.74	2578.65	1215.95	-95.00	92.00	1.36	-1.04	2.83
	2710.00	17.50	63.72	N/A	213.78	263.12	2665.47	1302.77	-96.93	91.00	0.23	0.15	0.58
	2801.00	18.11	62.53	N/A	226.37	287.94	2752.11	1389.41	-99.07	91.00	0.78	0.67	-1.31
	2894.00	18.08	63.83	N/A	239.40	313.72	2840.51	1477.81	-101.25	93.00	0.44	-0.03	1.40
	2986.00	17.00	66.45	N/A	251.07	338.86	2928.23	1565.53	-102.42	92.00	1.45	-1.17	2.85
	3076.00	17.13	66.56	N/A	261.60	363.08	3014.27	1651.57	-102.89	90.00	0.15	0.14	0.12
	3167.00	17.77	65.89	N/A	272.60	388.05	3101.08	1738.38	-103.51	91.00	0.74	0.70	-0.74
	3260.00	17.04	61.39	N/A	284.92	412.97	3189.83	1827.13	-105.37	93.00	1.65	-0.78	-4.84
	3351.00	16.83	59.08	N/A	298.08	435.98	3276.88	1914.18	-108.73	91.00	0.77	-0.23	-2.54
	3443.00	17.23	60.08	N/A	311.72	459.21	3364.85	2002.15	-112.45	92.00	0.54	0.43	1.09
	3534.00	17.34	60.35	N/A	325.15	482.68	3451.74	2089.04	-115.88	91.00	0.15	0.12	0.30
	3625.00	17.50	59.55	N/A	338.79	506.26	3538.56	2175.86	-119.47	91.00	0.32	0.18	-0.88
	3716.00	17.02	60.90	N/A	352.20	529.69	3625.47	2262.77	-122.91	91.00	0.69	-0.53	1.48
	3807.00	16.71	59.56	N/A	365.31	552.61	3712.55	2349.85	-126.25	91.00	0.55	-0.34	-1.47
	3898.00	16.87	60.09	N/A	378.52	575.33	3799.67	2436.97	-129.77	91.00	0.24	0.18	0.58
	3991.00	17.28	61.38	N/A	391.86	599.16	3888.57	2525.87	-132.99	93.00	0.60	0.44	1.39
	4081.00	17.54	62.15	N/A	404.60	622.88	3974.45	2611.75	-135.69	90.00	0.39	0.29	0.86
	4173.00	16.64	59.11	N/A	417.84	646.44	4062.39	2699.69	-138.92	92.00	1.38	-0.98	-3.30
	4264.00	16.15	58.63	N/A	431.12	668.43	4149.69	2786.99	-142.78	91.00	0.56	-0.54	-0.53
	4354.00	16.17	60.97	N/A	443.72	690.07	4236.13	2873.43	-146.14	90.00	0.72	0.02	2.60
	4445.00	16.26	62.75	N/A	455.70	712.48	4323.52	2960.82	-148.65	91.00	0.56	0.10	1.96
	4536.00	16.77	61.77	N/A	467.74	735.37	4410.76	3048.06	-151.02	91.00	0.64	0.56	-1.08
	4626.00	17.25	61.42	N/A	480.27	758.53	4496.82	3134.12	-153.74	90.00	0.55	0.53	-0.39
	4718.00	17.36	62.02	N/A	493.23	782.63	4584.66	3221.96	-156.51	92.00	0.23	0.12	0.65
	4808.00	17.37	61.05	N/A	506.03	806.24	4670.56	3307.86	-159.31	90.00	0.32	0.01	-1.08
	4899.00	17.21	61.50	N/A	519.03	829.96	4757.45	3394.75	-162.25	91.00	0.23	-0.18	0.49
	4992.00	18.04	61.94	N/A	532.37	854.76	4845.08	3483.38	-165.09	93.00	0.90	0.89	0.47
	5084.00	18.63	61.22	N/A	546.15	880.21	4933.41	3570.71	-168.09	92.00	0.69	0.64	-0.78
	5176.00	17.91	60.15	N/A	560.26	905.36	5020.77	3658.07	-171.52	92.00	0.86	-0.78	-1.16
	5266.00	17.67	63.48	N/A	573.25	929.58	5106.47	3743.77	-174.26	90.00	1.16	-0.27	3.70
	5357.00	18.26	66.40	N/A	585.13	955.01	5193.03	3830.33	-175.51	91.00	1.18	0.65	3.21

10/21/2022

	5447.00	17.01	65.01	N/A	596.33	979.86	5278.80	3916.10	-176.36	90.00	1.47	-1.39	-1.54
	5538.00	16.48	63.36	N/A	607.74	1003.46	5365.94	4003.24	-177.88	91.00	0.78	-0.58	-1.81
	5629.00	17.18	61.68	N/A	619.91	1026.83	5453.05	4090.35	-180.18	91.00	0.94	0.77	-1.85
	5719.00	18.10	60.05	N/A	633.19	1050.65	5538.81	4176.11	-183.35	90.00	1.16	1.02	-1.81
	5810.00	17.89	59.82	N/A	647.28	1074.98	5625.36	4262.66	-187.06	91.00	0.24	-0.23	-0.25
Tie-In	5878.00	16.64	59.44	N/A	657.48	1092.39	5690.30	4327.60	-189.83	68.00	1.85	-1.84	-0.56
	6002.00	17.47	60.52	109.5	675.66	1123.88	5808.84	4446.14	-194.59	124.00	0.72	0.67	0.87
	6095.00	18.61	71.01	120.3	687.37	1150.07	5897.29	4534.59	-195.39	93.00	3.70	1.23	11.28
	6186.00	19.78	91.27	123.0	691.76	1179.23	5983.33	4620.63	-188.30	91.00	7.40	1.29	22.26
	6278.00	22.90	107.28	125.7	686.09	1211.92	6069.08	4706.38	-170.56	92.00	7.15	3.39	17.40
	6371.00	26.93	118.95	131.1	670.50	1247.66	6153.46	4790.76	-142.50	93.00	6.82	4.33	12.55
	6461.00	31.69	127.30	133.8	646.29	1284.34	6231.95	4869.25	-106.10	90.00	6.96	5.29	9.28
	6552.00	37.53	132.76	136.5	612.95	1323.75	6306.83	4944.13	-60.22	91.00	7.26	6.42	6.00
	6642.00	42.69	137.84	136.5	571.68	1364.39	6375.66	5012.96	-6.55	90.00	6.79	5.73	5.64
	6733.00	48.41	140.62	139.2	522.46	1406.73	6439.37	5076.67	55.12	91.00	6.65	6.29	3.05
	6823.00	55.41	143.92	141.9	466.43	1449.96	6494.86	5132.16	123.42	90.00	8.29	7.78	3.67
	6915.00	63.37	147.79	141.9	400.91	1494.26	6541.69	5178.99	200.90	92.00	9.38	8.65	4.21
	7006.00	71.40	150.89	144.6	328.68	1537.00	6576.66	5213.96	283.98	91.00	9.37	8.82	3.41
	7096.00	80.04	154.21	144.6	251.35	1577.12	6598.84	5236.14	370.78	90.00	10.24	9.60	3.69
	7187.00	88.31	157.28	147.3	168.88	1614.26	6608.07	5245.37	461.18	91.00	9.69	9.09	3.37
	7278.00	89.48	155.96	152.7	85.37	1650.36	6609.83	5247.13	552.15	91.00	1.94	1.29	-1.45
	7368.00	89.51	156.29	155.4	3.08	1686.78	6610.62	5247.92	642.12	90.00	0.37	0.03	0.37
	7459.00	89.48	155.97	155.4	-80.13	1723.61	6611.42	5248.72	733.09	91.00	0.35	-0.03	-0.35
	7550.00	89.51	155.79	158.1	-163.19	1760.79	6612.22	5249.52	824.04	91.00	0.20	0.03	-0.20
	7640.00	89.63	155.95	158.1	-245.32	1797.58	6612.90	5250.20	914.00	90.00	0.22	0.13	0.18
	7731.00	89.38	155.93	160.8	-328.41	1834.68	6613.68	5250.98	1004.97	91.00	0.28	-0.27	-0.02
	7822.00	89.17	155.69	160.8	-411.41	1871.97	6614.84	5252.14	1095.92	91.00	0.35	-0.23	-0.26
	7913.00	89.11	155.36	163.5	-494.23	1909.67	6616.20	5253.50	1186.85	91.00	0.37	-0.07	-0.36
	8005.00	89.48	155.21	163.5	-577.79	1948.13	6617.33	5254.63	1278.78	92.00	0.43	0.40	-0.16
	8096.00	88.37	155.14	163.5	-660.37	1986.33	6619.04	5256.34	1369.68	91.00	1.22	-1.22	-0.08
	8187.00	89.05	155.59	163.5	-743.06	2024.25	6621.09	5258.39	1460.59	91.00	0.90	0.75	0.49
	8278.00	89.26	156.36	166.2	-826.17	2061.29	6622.43	5259.73	1551.55	91.00	0.88	0.23	0.85
	8369.00	89.35	156.18	166.2	-909.15	2098.64	6623.54	5260.84	1642.50	91.00	1.30	0.10	-1.30
	8459.00	89.26	156.18	166.2	-991.15	2135.70	6624.63	5261.93	1732.45	90.00	1.12	-0.10	1.11
	8550.00	89.23	156.91	168.9	-1074.63	2171.92	6625.83	5263.13	1823.42	91.00	0.80	-0.03	0.80
	8641.00	89.08	157.16	168.9	-1158.40	2207.42	6627.17	5264.47	1914.41	91.00	0.32	-0.16	0.27
	8732.00	89.32	156.65	168.9	-1242.10	2243.11	6628.44	5265.74	2005.40	91.00	0.62	0.26	-0.56
	8823.00	89.14	156.98	168.9	-1325.75	2278.93	6629.66	5266.96	2096.38	91.00	0.41	-0.20	0.36
	8913.00	88.77	156.60	171.6	-1408.45	2314.40	6631.30	5268.60	2186.36	90.00	0.59	-0.41	-0.42
	9005.00	89.17	156.97	171.6	-1492.98	2350.65	6632.96	5270.26	2278.34	92.00	0.59	0.43	0.40
	9096.00	89.17	157.22	171.6	-1576.80	2386.07	6634.28	5271.58	2369.32	91.00	0.27	0.00	0.27
	9186.00	88.62	157.44	171.6	-1659.83	2420.75	6636.01	5273.31	2459.31	90.00	0.66	-0.61	0.24
	9278.00	89.08	155.67	174.3	-1744.22	2457.34	6637.86	5275.16	2551.27	92.00	1.99	0.50	-1.92
	9369.00	89.66	156.75	174.3	-1827.48	2494.05	6638.86	5276.16	2642.24	91.00	1.35	0.64	1.19
	9460.00	89.26	156.80	174.3	-1911.10	2529.93	6639.72	5277.02	2733.23	91.00	0.44	-0.44	0.05
	9551.00	89.14	156.50	174.3	-1994.64	2566.00	6640.99	5278.29	2824.21	91.00	0.36	-0.13	-0.33
	9643.00	88.89	157.17	174.3	-2079.21	2602.18	6642.57	5279.87	2916.19	92.00	0.78	-0.27	0.73
	9733.00	89.20	156.71	177.0	-2162.00	2637.43	6644.07	5281.37	3006.17	90.00	0.62	0.34	-0.51
	9824.00	89.26	156.83	177.0	-2245.62	2673.32	6645.29	5282.59	3097.15	91.00	0.15	0.07	0.13
	9915.00	89.60	156.61	179.7	-2329.21	2709.28	6646.20	5283.50	3188.14	91.00	0.45	0.37	-0.24
	10005.00	89.20	156.64	179.7	-2411.81	2744.99	6647.14	5284.44	3278.12	90.00	0.45	-0.44	0.03
	10096.00	89.14	156.67	179.7	-2495.36	2781.05	6648.46	5285.76	3369.10	91.00	0.07	-0.07	0.03
	10187.00	89.02	156.35	179.7	-2578.80	2817.31	6649.92	5287.22	3460.08	91.00	0.38	-0.13	-0.35
	10277.00	88.77	156.76	179.7	-2661.36	2853.11	6651.65	5288.95	3550.05	90.00	0.53	-0.28	0.46
	10369.00	88.28	156.65	182.5	-2745.83	2889.48	6654.02	5291.32	3642.01	92.00	0.55	-0.53	-0.12
	10460.00	88.98	156.47	185.2	-2829.30	2925.67	6656.20	5293.50	3732.97	91.00	0.79	0.77	-0.20
	10551.00	89.26	156.90	185.2	-2912.85	2961.68	6657.60	5294.90	3823.95	91.00	0.56	0.31	0.47
	10642.00	89.05	156.17	185.2	-2996.32	2997.92	6658.94	5296.24	3914.92	91.00	0.83	-0.23	-0.80
	10733.00	89.60	156.90	185.2	-3079.79	3034.15	6660.01	5297.31	4006.90	91.00	1.00	0.60	0.80
	10824.00	89.54	156.71	185.2	-3163.43	3069.99	6660.69	5297.99	4096.89	91.00	0.22	-0.07	-0.21
	10915.00	89.23	156.51	185.2	-3246.95	3106.11	6661.67	5298.97	4187.88	91.00	0.41	-0.34	-0.22
	11005.00	89.60	156.89	185.2	-3329.60	3141.71	6662.59	5299.89	4277.86	90.00	0.59	0.41	0.42

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11097.00	89.42	156.81	187.9	-3414.19	3177.88	6663.37	5300.67	4369.85	92.00	0.21	-0.20	-0.09
11188.00	89.51	156.68	187.9	-3497.79	3213.80	6664.22	5301.52	4460.84	91.00	0.17	0.10	-0.14
11279.00	89.51	156.38	187.9	-3581.26	3250.04	6665.00	5302.30	4551.82	91.00	0.33	0.00	-0.33
11370.00	89.57	156.57	187.9	-3664.38	3287.09	6665.73	5303.03	4642.79	91.00	0.89	0.07	-0.89
11460.00	89.94	156.47	187.9	-3746.61	3323.67	6666.12	5303.42	4732.75	90.00	1.08	0.41	1.00
11551.00	89.69	156.67	187.9	-3830.10	3359.85	6666.41	5303.71	4823.74	91.00	0.35	-0.27	0.22
11642.00	89.60	156.42	185.2	-3913.58	3396.07	6666.98	5304.28	4914.73	91.00	0.29	-0.10	-0.27
11732.00	90.03	156.63	187.9	-3996.13	3431.92	6667.27	5304.57	5004.71	90.00	0.53	0.48	0.23
11823.00	89.57	156.42	187.9	-4079.60	3468.17	6667.58	5304.88	5095.70	91.00	0.56	-0.51	-0.23
11914.00	90.15	156.68	190.6	-4163.08	3504.39	6667.81	5305.11	5186.68	91.00	0.70	0.64	0.29
12004.00	89.78	156.19	190.6	-4245.58	3540.37	6667.86	5305.16	5276.67	90.00	0.68	-0.41	-0.54
12095.00	89.88	156.56	190.6	-4328.95	3576.84	6668.13	5305.43	5367.65	91.00	0.42	0.11	0.41
12186.00	89.63	156.85	190.6	-4412.37	3613.61	6668.53	5305.83	5460.64	93.00	0.41	-0.27	0.31
12278.00	90.03	156.59	190.6	-4497.04	3649.18	6668.80	5306.10	5550.63	90.00	0.53	0.44	-0.29
12369.00	89.38	156.43	193.3	-4580.50	3685.45	6669.26	5306.56	5641.61	91.00	0.74	-0.71	-0.18
12461.00	89.29	156.65	193.3	-4664.89	3722.08	6670.33	5307.63	5733.59	92.00	0.26	-0.10	0.24
12553.00	89.51	156.65	193.3	-4749.35	3758.54	6671.30	5308.60	5825.58	92.00	0.24	0.24	0.01
12645.00	89.63	156.59	193.3	-4833.79	3795.05	6671.99	5309.29	5917.56	92.00	0.15	0.13	-0.07
12736.00	89.45	156.63	193.3	-4917.31	3831.17	6672.72	5310.02	6008.55	91.00	0.20	-0.20	0.04
12826.00	89.35	156.58	193.3	-4999.91	3866.91	6673.66	5310.96	6098.53	90.00	0.12	-0.11	-0.06
12917.00	89.51	156.53	193.3	-5083.39	3903.11	6674.56	5311.86	6189.51	91.00	0.18	0.18	-0.05
13007.00	89.29	156.49	193.3	-5165.93	3938.98	6675.51	5312.81	6279.50	90.00	0.25	-0.24	-0.04
13100.00	89.54	156.53	193.3	-5251.21	3976.05	6676.46	5313.76	6372.48	93.00	0.27	0.27	0.04
13192.00	89.72	156.94	196.0	-5335.73	4012.39	6677.05	5314.35	6464.47	92.00	0.49	0.20	0.45
13282.00	89.35	156.46	196.0	-5418.39	4047.98	6677.78	5315.08	6554.45	90.00	0.67	-0.41	-0.53
13375.00	89.35	156.73	196.0	-5503.73	4084.92	6678.84	5316.14	6647.43	93.00	0.29	-0.00	0.29
13468.00	89.38	156.70	196.0	-5589.15	4121.68	6679.87	5317.17	6740.42	93.00	0.05	0.03	-0.03
13559.00	89.08	156.41	196.0	-5672.63	4157.89	6681.09	5318.39	6831.40	91.00	0.46	-0.33	-0.32
13651.00	89.29	156.72	196.0	-5757.03	4194.47	6682.40	5319.70	6923.38	92.00	0.41	0.23	0.34
13742.00	89.51	156.38	198.7	-5840.51	4230.68	6683.35	5320.65	7014.36	91.00	0.45	0.24	-0.37
13835.00	89.48	156.73	198.7	-5925.83	4267.68	6684.17	5321.47	7107.34	93.00	0.38	-0.03	0.38
13925.00	89.57	156.96	198.7	-6008.58	4303.07	6684.92	5322.22	7197.33	90.00	0.27	0.10	0.28
14017.00	89.48	156.63	198.7	-6093.13	4339.32	6685.68	5322.98	7289.32	92.00	0.37	-0.10	-0.36
14108.00	89.69	156.62	201.4	-6176.66	4375.42	6686.34	5323.64	7380.31	91.00	0.23	0.23	-0.01
14199.00	89.60	156.70	201.4	-6260.21	4411.48	6686.90	5324.20	7471.30	91.00	0.13	-0.10	0.09
14290.00	89.57	156.74	201.4	-6343.80	4447.44	6687.56	5324.86	7562.28	91.00	0.05	-0.03	0.04
14380.00	89.54	156.74	201.4	-6426.49	4482.98	6688.26	5325.56	7652.27	90.00	0.03	-0.03	0.00
14472.00	89.45	156.61	201.4	-6510.96	4519.41	6689.07	5326.37	7744.26	92.00	0.17	-0.10	-0.14
14564.00	89.57	156.57	201.4	-6595.39	4555.96	6689.86	5327.16	7836.24	92.00	0.14	0.13	-0.04
14655.00	89.57	156.38	201.4	-6678.82	4592.28	6690.54	5327.84	7927.23	91.00	0.21	0.00	-0.21
14745.00	89.98	156.64	201.4	-6761.36	4628.15	6691.68	5328.98	8017.20	90.00	0.72	-0.66	0.29
14834.00	89.35	156.64	201.4	-6843.05	4663.43	6692.98	5330.28	8106.18	89.00	0.42	0.42	0.00
14923.00	89.29	156.71	201.4	-6924.77	4698.67	6694.03	5331.33	8195.17	89.00	0.10	-0.07	0.08
15013.00	89.14	158.69	201.4	-7008.03	4732.82	6695.27	5332.57	8285.16	90.00	2.21	-0.17	2.20
15101.00	89.05	158.45	204.1	-7089.94	4764.97	6696.66	5333.96	8373.13	88.00	0.29	-0.10	-0.27
15189.00	89.48	158.53	198.7	-7171.80	4797.23	6697.79	5335.09	8461.11	88.00	0.50	0.49	0.09
15278.00	88.92	158.21	198.7	-7254.52	4830.03	6699.03	5336.33	8550.09	89.00	0.72	-0.63	-0.36
15369.00	89.51	159.05	198.7	-7339.26	4863.19	6700.27	5337.57	8641.06	91.00	1.13	0.65	0.92
15461.00	89.26	158.77	198.7	-7425.09	4896.29	6701.26	5338.56	8733.03	92.00	0.41	-0.27	-0.30
15550.00	89.38	157.88	201.4	-7507.79	4929.16	6702.32	5339.62	8822.01	89.00	1.01	0.13	-1.00
15643.00	89.42	158.38	201.4	-7594.09	4963.80	6703.29	5340.69	8915.00	93.00	0.54	0.04	0.54
15734.00	89.51	158.70	201.4	-7678.78	4997.09	6704.14	5341.44	9005.99	91.00	0.37	0.10	0.35
15824.00	89.11	158.75	204.1	-7762.64	5029.74	6705.23	5342.53	9095.96	90.00	0.45	-0.44	0.06
15915.00	89.60	159.66	204.1	-7847.71	5062.05	6706.25	5343.55	9186.91	91.00	1.14	0.54	1.00
16006.00	89.14	158.47	204.1	-7932.69	5094.56	6707.25	5344.55	9277.87	91.00	1.40	-0.51	-1.31
16096.00	89.35	158.76	204.1	-8016.49	5127.38	6708.44	5345.74	9367.85	90.00	0.40	0.23	0.32
16188.00	89.35	158.95	204.1	-8102.29	5160.56	6709.48	5346.78	9459.82	92.00	0.21	0.00	0.21
16281.00	88.99	159.51	204.1	-8189.23	5193.54	6710.83	5348.13	9552.77	93.00	0.72	-0.39	0.60
16371.00	88.95	160.17	204.1	-8273.71	5224.55	6712.45	5349.75	9642.68	90.00	0.73	-0.04	0.73
16462.00	89.35	160.59	206.8	-8359.41	5255.10	6713.80	5351.10	9733.55	91.00	0.64	0.44	0.46
16554.00	89.69	161.15	206.8	-8446.33	5285.25	6714.57	5351.87	9825.39	92.00	0.27	0.37	0.61
16644.00	89.72	160.91	206.8	-8531.44	5314.51	6715.03	5352.33	9915.22	90.00	0.71	0.03	-0.27

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	16735.00	89.29	160.44	206.8	-8617.31	5344.62	6715.82	5353.12	10006.08	91.00	0.70	-0.47	-0.52
	16826.00	90.15	160.53	206.8	-8703.08	5375.02	6716.26	5353.56	10096.96	91.00	0.95	0.95	0.10
	16914.00	89.05	160.10	201.4	-8785.93	5404.66	6716.87	5354.17	10184.85	88.00	1.34	-1.25	-0.49
	17003.00	89.14	160.47	204.1	-8869.71	5434.68	6718.28	5355.58	10273.73	89.00	0.43	0.10	0.42
	17092.00	89.26	160.24	204.1	-8953.52	5464.60	6719.52	5356.82	10362.62	89.00	0.29	0.13	-0.26
	17182.00	89.08	160.70	204.1	-9038.33	5494.68	6720.83	5358.13	10452.49	90.00	0.55	-0.20	0.51
	17272.00	89.23	160.83	204.1	-9123.30	5524.33	6722.15	5359.45	10542.33	90.00	0.22	0.17	0.14
	17364.00	89.54	160.90	204.1	-9210.21	5554.48	6723.14	5360.44	10634.17	92.00	0.35	0.34	0.08
	17454.00	89.11	160.45	206.8	-9295.13	5584.26	6724.20	5361.50	10724.03	90.00	0.69	-0.48	-0.50
	17545.00	89.23	160.50	206.8	-9380.89	5614.67	6725.52	5362.82	10814.90	91.00	0.14	0.13	0.05
	17636.00	89.17	160.45	206.8	-9466.65	5645.09	6726.79	5364.09	10905.77	91.00	0.09	-0.07	-0.05
	17727.00	89.05	161.35	206.8	-9552.63	5674.86	6728.20	5365.50	10996.60	91.00	1.00	-0.13	0.99
	17818.00	89.05	160.38	206.8	-9638.59	5704.68	6729.71	5367.01	11087.43	91.00	1.07	-0.00	-1.07
	17911.00	89.82	159.70	209.5	-9725.99	5736.43	6730.63	5367.93	11180.33	93.00	1.10	0.83	-0.73
	18001.00	89.78	161.20	206.8	-9810.80	5766.54	6730.94	5368.24	11270.21	90.00	1.67	-0.04	1.67
	18093.00	89.20	160.55	206.8	-9897.72	5796.68	6731.76	5369.06	11362.05	92.00	0.95	-0.63	-0.71
	18184.00	89.35	160.10	209.5	-9983.40	5827.32	6732.91	5370.21	11452.93	91.00	0.52	0.16	-0.49
	18275.00	89.29	160.41	209.5	-10069.04	5858.06	6733.99	5371.29	11543.82	91.00	0.35	-0.07	0.34
	18366.00	89.42	160.47	209.5	-10154.79	5888.52	6735.02	5372.32	11634.70	91.00	0.16	0.14	0.07
	18456.00	89.60	160.59	209.5	-10239.64	5918.52	6735.79	5373.09	11724.57	90.00	0.24	0.20	0.13
	18546.00	89.45	160.50	209.5	-10324.50	5948.50	6736.53	5373.83	11814.44	90.00	0.19	-0.17	-0.10
	18637.00	89.51	160.82	209.5	-10410.36	5978.63	6737.36	5374.66	11905.30	91.00	0.36	0.07	0.35
	18728.00	89.45	160.57	212.2	-10496.24	6008.72	6738.19	5375.49	11996.16	91.00	0.28	-0.07	-0.27
	18820.00	89.66	160.48	212.2	-10582.97	6039.39	6738.90	5376.20	12088.03	92.00	0.25	0.23	-0.10
	18911.00	90.37	159.96	212.2	-10668.60	6070.18	6738.88	5376.18	12178.93	91.00	0.97	0.78	-0.57
	19002.00	89.91	160.15	212.2	-10754.14	6101.22	6738.65	5375.95	12269.84	91.00	0.55	-0.51	0.21
	19093.00	89.54	160.33	212.2	-10839.78	6131.99	6739.09	5376.39	12360.73	91.00	0.45	-0.41	0.20
	19184.00	89.60	160.40	212.2	-10925.49	6162.57	6739.77	5377.07	12451.62	91.00	0.10	0.07	0.08
	19274.00	89.51	160.39	212.2	-11010.27	6192.76	6740.47	5377.77	12541.50	90.00	0.10	-0.10	-0.01
	19366.00	89.60	160.31	212.2	-11096.91	6223.70	6741.19	5378.49	12633.39	92.00	0.13	0.10	-0.09
	19456.00	89.45	160.41	212.2	-11181.67	6253.95	6741.93	5379.23	12723.27	90.00	0.20	-0.17	0.11
	19547.00	89.35	160.39	212.2	-11267.39	6284.47	6742.89	5380.19	12814.15	91.00	0.11	-0.11	-0.02
	19637.00	89.57	160.37	212.2	-11352.16	6314.69	6743.74	5381.04	12904.04	90.00	0.25	0.24	-0.02
	19729.00	89.35	160.46	214.9	-11438.84	6345.53	6744.60	5381.90	12995.92	92.00	0.26	-0.24	0.10
	19820.00	89.35	160.23	212.2	-11524.53	6376.14	6745.63	5382.93	13086.80	91.00	0.25	0.00	-0.25
	19910.00	89.66	160.59	212.2	-11609.32	6406.31	6746.41	5383.71	13176.68	90.00	0.53	0.34	0.40
	20001.00	89.35	160.47	212.2	-11695.11	6436.64	6747.20	5384.50	13267.55	91.00	0.37	-0.34	-0.13
	20091.00	89.05	160.39	212.2	-11779.90	6466.78	6748.46	5385.76	13357.43	90.00	0.34	-0.33	-0.09
	20182.00	89.29	160.34	214.9	-11865.60	6497.36	6749.77	5387.07	13448.31	91.00	0.27	0.26	-0.05
	20273.00	89.48	160.22	214.9	-11951.26	6528.06	6750.75	5388.05	13539.20	91.00	0.25	0.21	-0.13
	20364.00	89.57	160.77	214.9	-12037.03	6558.45	6751.50	5388.80	13630.07	91.00	0.61	0.10	0.60
	20456.00	89.32	160.67	214.9	-12123.87	6588.82	6752.40	5389.70	13721.92	92.00	0.29	-0.27	-0.11
	20546.00	89.17	160.41	214.9	-12208.72	6618.80	6753.58	5390.88	13811.79	90.00	0.33	-0.17	-0.29
	20637.00	89.23	160.25	214.9	-12294.40	6649.43	6754.85	5392.15	13902.67	91.00	0.19	0.07	-0.18
	20728.00	89.42	160.27	214.9	-12380.05	6680.16	6755.92	5393.22	13993.56	91.00	0.21	0.21	0.02
	20819.00	89.48	160.13	214.9	-12465.67	6710.99	6756.80	5394.10	14084.46	91.00	0.17	0.07	-0.15
	20910.00	89.51	160.42	214.9	-12551.32	6741.70	6757.60	5394.90	14175.35	91.00	0.32	0.03	0.32
	21000.00	89.60	160.05	214.9	-12636.02	6772.13	6758.30	5395.60	14265.24	90.00	0.42	0.10	-0.41
	21092.00	89.69	160.56	214.9	-12722.63	6803.14	6759.87	5396.17	14357.13	92.00	0.56	0.10	0.55
	21180.00	89.48	160.39	214.9	-12805.57	6832.55	6759.51	5396.81	14445.01	88.00	0.31	-0.24	-0.19
	21270.00	89.66	160.30	214.9	-12890.32	6862.82	6760.18	5397.48	14534.90	90.00	0.22	0.20	-0.10
	21361.00	89.35	160.41	214.9	-12976.02	6893.41	6760.97	5398.27	14625.79	91.00	0.36	-0.34	0.12
	21452.00	89.57	160.40	214.9	-13061.75	6923.93	6761.83	5399.13	14716.67	91.00	0.24	0.24	-0.01
	21532.00	89.75	160.53	214.9	-13137.14	6950.68	6762.30	5399.60	14796.56	80.00	0.28	0.22	0.16
Projection	21557.00	89.75	160.53	N/A	-13160.71	6959.01	6762.41	5399.71	14821.53	25.00	0.00	-0.02	-0.01