



Company: Conoco Phillips
Well: UL 20 Gold Spoon 2904H

API#: 42-301-36072

Rig Name: Production

State/County: Texas/Loving

VS-Azi: 0.00 Degrees

Latitude: 31.67511, Longitude: -103.32936

Grid North = True North +1.54 degs (NAD 27)

Grid Correction Applied = +1.54 degs



Depth Reference : RKB = 32 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Error Model: VESSI_GYROFLEX.IPM

Filename: ul 20 gold spoon 2904h-de_01.ut

Minimum Curvature Method

Report Date/Time: 11/21/2022 / 10:19

Vaughn Energy Services Inc.

API: 42-301-36072

PO Box 728 Cisco, Texas 76437

817-741-5746

David Miller

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
132.00	0.77	345.55	132.00	0.86	-0.22	0.86	0.89	345.55	0.59
232.00	1.21	334.15	231.98	2.47	-0.85	2.47	2.61	340.97	0.47
332.00	0.94	305.28	331.96	3.89	-1.98	3.89	4.37	333.02	0.59
432.00	0.91	265.38	431.95	4.30	-3.44	4.30	5.51	321.32	0.63
532.00	1.14	262.19	531.94	4.10	-5.22	4.10	6.64	308.13	0.24
632.00	0.65	238.84	631.92	3.67	-6.70	3.67	7.64	298.75	0.61
732.00	0.55	235.04	731.92	3.11	-7.57	3.11	8.18	292.34	0.11
832.00	0.62	244.51	831.91	2.60	-8.45	2.60	8.84	287.12	0.12
932.00	0.85	259.22	931.90	2.23	-9.67	2.23	9.92	282.99	0.29
1032.00	1.56	253.29	1031.88	1.70	-11.70	1.70	11.82	278.26	0.73
1078.00	1.09	236.14	1077.87	1.27	-12.67	1.27	12.73	275.74	1.33

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
HORIZONTAL DISPLACEMENT IS 12.73 FEET AT 275.74 DEGREES									



I David Miller certify that I am employed by Vaughn Energy Services Inc.
That I did on the day(s) of 11/16/2022 conduct or supervise the taking of a
Rate Gyro survey from a depth of 0.00 feet to a depth of 1,078.00
feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services
Inc., that I am authorized and qualified to make this report; that this survey was conducted at the request of
Conoco Phillips for the UL 20 Gold Spoon 2904H
API# 42-301-36072 in Texas County/ Parish Loving
; and I have reviewed this report and find that it conforms to the principles and procedures as set forth by Vaughn
Energy Services Inc.

Service Technician
Vaughn Energy Services Inc.

OPERATOR: PDEH LLC

WELL LOCATION

LEASE NAME & WELL NO.:

UL 20 GOLD SPOON #2904H

LEASE ADDRESS:

640.700 ACRES (CALLED)

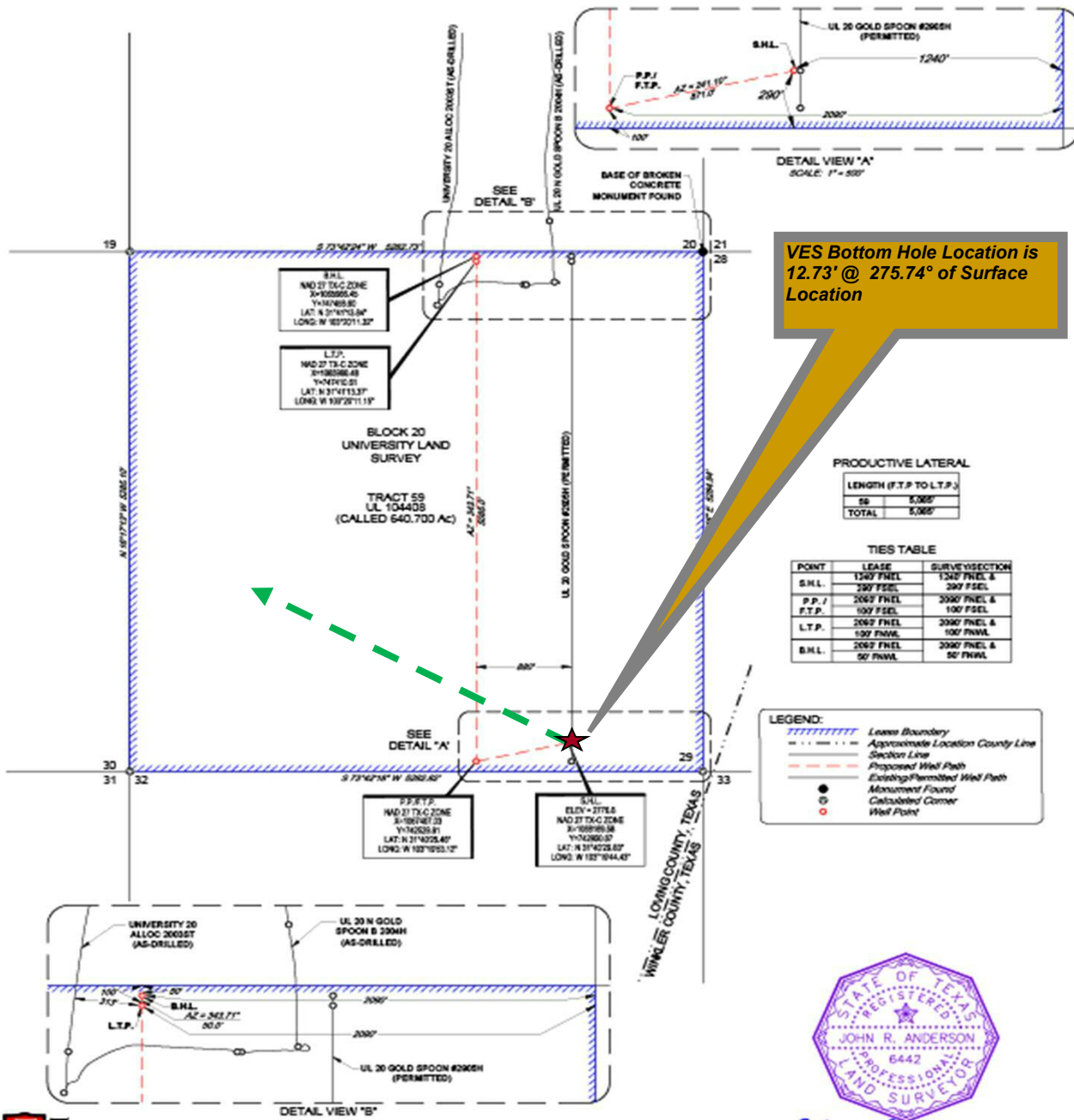
NEAREST TOWN IN COUNTY:

±16.0 MILES SOUTHEAST OF MENTONE, TEXAS

DESCRIPTION:

S.H.L./P.P./F.T.P.: SECTION 29, BLOCK 20, UNIVERSITY LAND SURVEY

L.T./B.H.L.: SECTION 29, BLOCK 20, UNIVERSITY LAND SURVEY
LOVING COUNTY, TEXAS



VES Bottom Hole Location is 12.73' @ 275.74° of Surface Location



John R. Anderson 7/12/2022
John R. Anderson, R.P.L.S. No. 6442



1630 EVERMAN PARKWAY, STE. 140 - FT. WORTH, TEXAS 76149
TELEPHONE: (817) 744-1512 - FAX: (817) 744-1504
TEXAS PRM REGISTRATION NO. 10042004
WWW.TOPOGRAPHIC.COM

UL-20-29-P4 UL 20 GOLD SPOON #2904H	REVISION:	
	INT	DATE
DATE: 07/11/2022		
FILE: LO UL 20 29 P4 GOLD SPOON #2904H		
DRAWN BY: A.C.L./O.M.		
SHEET: 1 OF 1		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 11"x17"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE BASED UPON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983, UNLESS OTHERWISE NOTED.
3. THIS LOCATION AND BOUNDARY SURVEY HAS BEEN CAREFULLY SURVEYED ON THE GROUND UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, ACCORDING TO THE EVIDENCE, OFFICIAL SURVEY RECORDS, MAPS, AND OTHER DATA PROVIDED BY PERMAN OIL&GAS ENTERPRISES HOLDINGS, LLC. THIS PLAT WAS CREATED FOR THE SOLE PURPOSE OF PLACING A PERMIT WITH THE RAILROAD COMMISSION OF TEXAS AND SHOULD NOT BE CONSTRUED AS A "BOUNDARY SURVEY" IN COMPLIANCE WITH T.S.P.S. MINIMUM STANDARDS OF PRECISION FOR BOUNDARY SURVEYS. THIS CERTIFICATION IS MADE AND SUBMITTED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
4. ALL ELEVATION VALUES CONTAINED HEREIN ARE ORTHOMETRIC ONLY, BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 83), U.S. SURVEY FEET.
5. ALL MINERAL OWNERSHIP DATA SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY PERMAN OIL&GAS ENTERPRISES HOLDINGS, LLC OR ITS SUBSIDIARIES & AFFILIATES.

NOTES CONT'D:
6. THE PRELIMINARY LOCATION HAS BEEN CAREFULLY SURVEYED ON THE GROUND DURING THE DATE OF JUNE 18, 2022.
7. S.H.L. = SURFACE HOLE LOCATION
8. P.P. = POINT OF PENETRATOR
9. F.T.P. = FIRST TIE POINT
10. L.T.P. = LAST TIE POINT
11. B.H.L. = BOTTOM HOLE LOCATION

VES Bottom Hole Location is		12.73' @ 275.74°		of Surface Location	
MD / FT	1078'			1077.87'	TVD / FT
North / FT	South / FT			East / FT	West / FT
1.27'					12.67'

Proposed Azimuth:	333.95
Target Inclination:	0.00

[illegible]



Survey Certification Letter

November 30, 2022

State of Texas
County of Loving

I, Roger Dubose, certify that; I am employed by **Integrity Services, LLC**; that I did on the day(s) of through 11/04/2022 through 11/09/2022 conducted and / or supervised the MWD survey(s) taken from the depth of 120 feet to depth of 1174 feet; that the data is true, correct, complete and within the specifications and limitations of the survey tool provided by **Integrity Services, LLC**; that I am authorized and qualified to make this survey report; that was requested by **Conoco Phillips** for the surveys performed on the **UL 20 Gold Spoon 2904H**, API No. **42-301-36072**. In **Loving** County, Texas; and that I have reviewed this report and find that it conforms to the principles and procedures set forth by **Integrity Services, LLC**.

Roger Dubose

Roger Dubose
Directional Manager
P.O. Box 5989 | Midland, TX 79704
Office: 432-661-6075
roger.dubose@integrity-serv.com

OPERATOR: PDEH LLC

WELL LOCATION

LEASE NAME & WELL NO.:

UL 20 GOLD SPOON #2904H

LEASE ACREAGE:

640.700 ACRES (CALLED)

NEAREST TOWN IN COUNTY:

±16.0 MILES SOUTHEAST OF MENTONE, TEXAS

DESCRIPTION:

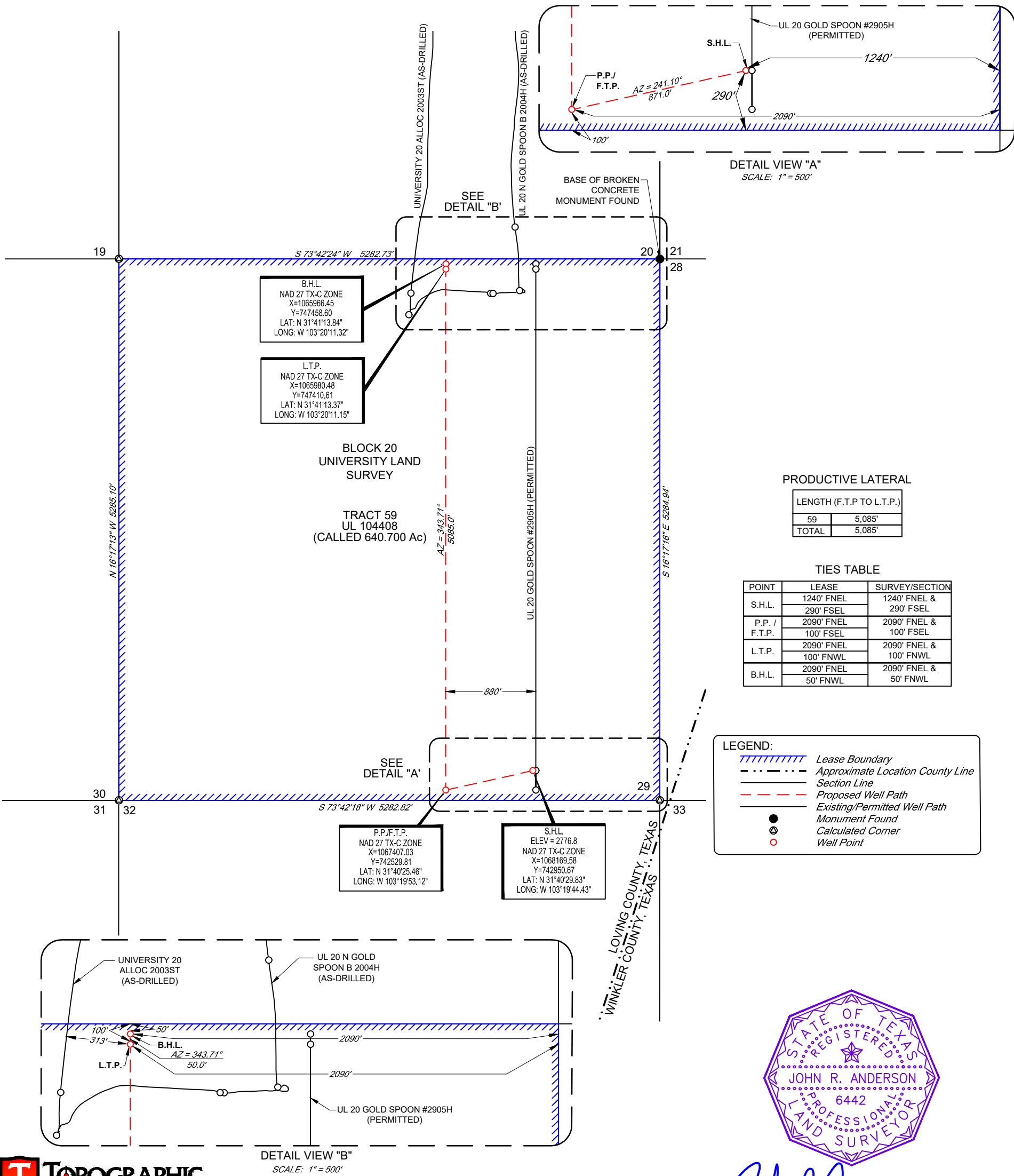
S.H.L./P.P./F.T.P.: SECTION 29, BLOCK 20, UNIVERSITY LAND SURVEY

L.T.P/B.H.L.: SECTION 29, BLOCK 20, UNIVERSITY LAND SURVEY

LOVING COUNTY, TEXAS



SCALE: 1" = 1000'
0' 500' 1000'



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM



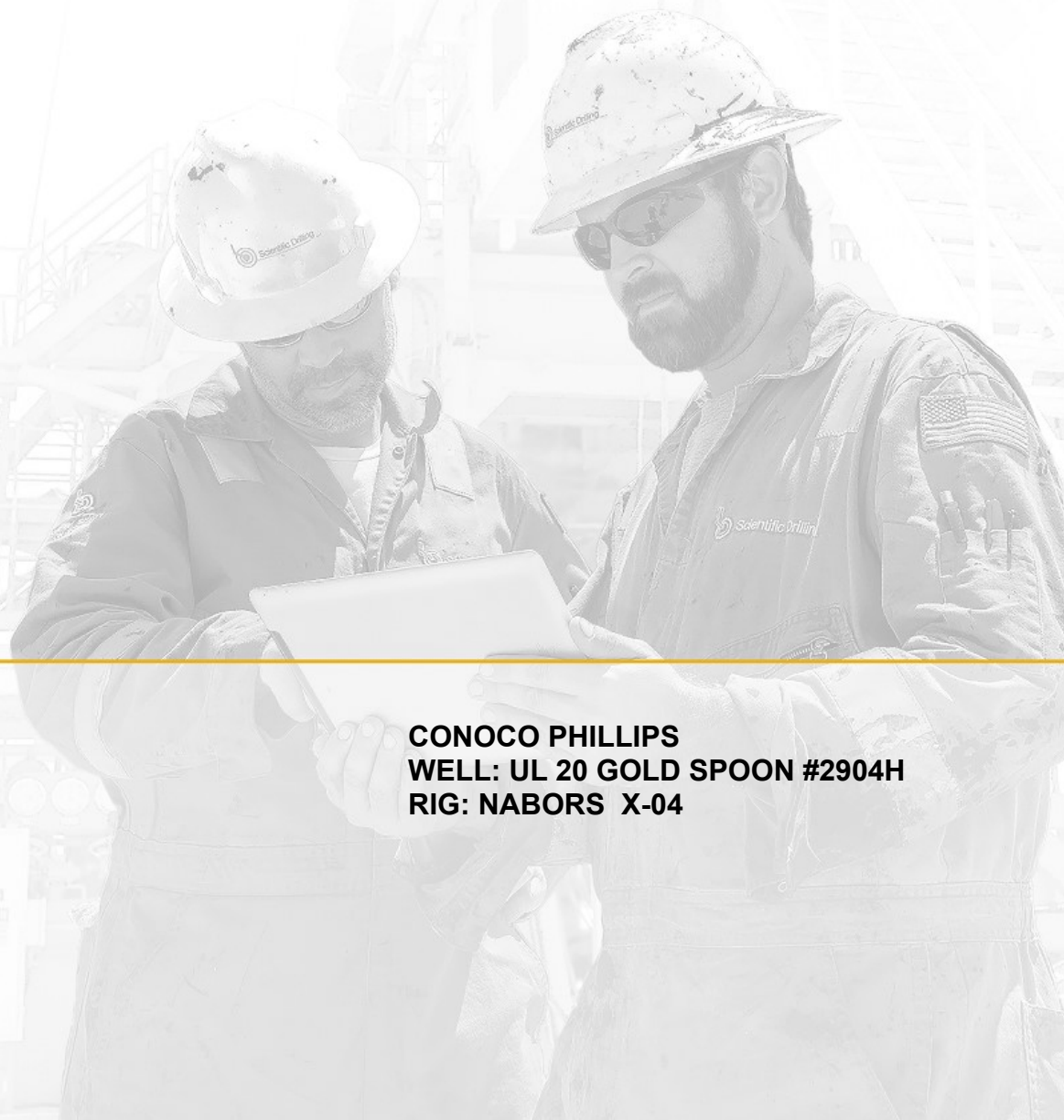
John R. Anderson 7/12/2022
John R. Anderson, R.P.L.S. No. 6442

UL-20-29-P4 UL 20 GOLD SPOON #2904H	REVISION:		NOTES:	NOTES CONT'D:
	INT	DATE		
DATE: 07/11/2022			1. ORIGINAL DOCUMENT SIZE: 11" X 17" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927. UNLESS OTHERWISE NOTED. 3. THIS LOCATION AND/OR UNIT/LEASE BOUNDARY HAS BEEN CAREFULLY SURVEYED ON THE GROUND UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE ACCORDING TO THE EVIDENCE, OFFICIAL SURVEY RECORDS, MAPS, AND OTHER DATA PROVIDED BY PERMIAN DELAWARE ENTERPRISES HOLDINGS, LLC. THIS PLAT WAS CREATED FOR THE SOLE PURPOSE OF FILING A PERMIT WITH THE RAILROAD COMMISSION OF TEXAS AND SHOULD NOT BE CONSTRUED AS A "BOUNDARY SURVEY" IN COMPLIANCE WITH T.B.P.L.S. MINIMUM STANDARDS OF PROCEDURES FOR BOUNDARY SURVEYS. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY. 4. ALL ELEVATION VALUES CONTAINED HEREON ARE ORTHOMETRIC ONLY, BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), U.S. SURVEY FEET. 5. ALL MINERAL OWNERSHIP DATA SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY PERMIAN DELAWARE ENTERPRISES HOLDINGS, LLC OR ITS SUBSIDIARIES & AFFILIATES.	6. THE PRELIMINARY LOCATION HAS BEEN CAREFULLY SURVEYED ON THE GROUND DURING THE DATE OF JUNE 18, 2022. 7. S.H.L. = SURFACE HOLE LOCATION 8. P.P. = POINT OF PENETRATION 9. F.T.P. = FIRST TAKE POINT 10. L.T.P. = LAST TAKE POINT 11. B.H.L. = BOTTOM HOLE LOCATION
FILE: LO_UL_20_29_P4_GOLD SPOON_#2904H				
DRAWN BY: A.C.L./O.M.				
SHEET: 1 OF 1				



MAY 22 2023

SURVEY REPORT



**CONOCO PHILLIPS
WELL: UL 20 GOLD SPOON #2904H
RIG: NABORS X-04**

SURVEY REPORT

UL 20 GOLD SPOON #2904H

DEFINITIVE KEEPER GYRO SURVEY

PAGE 1 OF 15

CUSTOMER **Conoco Phillips**
PROJECT **UL 20 Gold Spoon #2904H**
FIELD **UL 20 Gold Spoon #2904H**

SDI JOB NO. **OP.039783**
SDI DISTRICT **Midland**
SDI KIT/UNIT

SITE INFORMATION

Site Name **UL 20 Gold Spoon #2904H**
Lat/Long **31.6723817 N, 103.3383494 W**
Northing **742,094.09 ft**
Easting **1,065,239.42 ft**

Section
Township
Range

MAP INFORMATION

North Reference **Grid North**
Grid Correction **1.54 deg**
System **US State Plane 1927**
Datum **North American Datum 1927 (Clarke 1866)**
Map Zone **Texas Central: 4203**



WELL INFORMATION

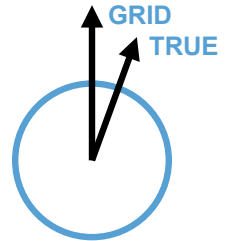
Lat/Long **31.6749528 N, 103.3290083 W**
Northing **742,950.67 ft**
Easting **1,068,169.58 ft**
UWI **42-301-36072**

DEPTH AND ELEVATION REFERENCE

Ground Level **2776.8 ft above Mean Sea Level**
Reference Datum **KB**
Reference Height **32 ft above G.L.**
Reference Elevation **2808.8 ft**

VERTICAL SECTION REFERENCE

+N/-S **0 ft**
+E/-W **0 ft**
Proposal Direction **333.95°**
Calculation Method **Minimum Curvature**



LOCAL GRAVITY REFERENCE INFORMATION

Local Gravity **998.514 mG [computed]**
True to Grid **add 1.54°**

WELL NOTES

Keeper Gyro Survey in 450 DUO Drill Pipe to 11,143'

OPERATORS

C. BOOHER

SDI Operator Name (Printed) SIGNATURE DATE

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.78	343.84	100.00	0.67	0.66	-0.19	0.78	0.68	343.84
125.00	0.76	344.27	124.99	1.01	0.98	-0.28	0.09	1.02	343.91
150.00	0.79	342.23	149.99	1.34	1.30	-0.38	0.15	1.36	343.74
175.00	0.90	337.88	174.99	1.70	1.65	-0.51	0.52	1.73	342.93
200.00	0.84	340.66	199.99	2.08	2.00	-0.64	0.31	2.10	342.26
225.00	0.84	337.10	224.98	2.45	2.35	-0.77	0.21	2.47	341.76
250.00	0.86	340.58	249.98	2.81	2.69	-0.91	0.22	2.84	341.38
275.00	0.78	340.45	274.98	3.17	3.03	-1.03	0.31	3.20	341.29
300.00	0.85	325.06	299.98	3.52	3.34	-1.19	0.92	3.54	340.41
325.00	0.67	315.49	324.97	3.84	3.60	-1.40	0.86	3.86	338.76
350.00	0.70	304.60	349.97	4.12	3.79	-1.63	0.53	4.12	336.76
375.00	0.60	300.58	374.97	4.36	3.94	-1.86	0.46	4.36	334.67
400.00	0.59	288.97	399.97	4.56	4.05	-2.10	0.48	4.56	332.60
425.00	0.69	275.20	424.97	4.73	4.10	-2.37	0.73	4.74	329.99
450.00	0.73	267.22	449.97	4.87	4.11	-2.68	0.43	4.91	326.90
475.00	0.69	272.97	474.96	5.00	4.11	-2.99	0.34	5.08	323.97
500.00	0.69	271.15	499.96	5.15	4.12	-3.29	0.09	5.27	321.40
525.00	0.74	269.34	524.96	5.28	4.12	-3.60	0.22	5.47	318.85
550.00	0.81	268.81	549.96	5.43	4.12	-3.94	0.28	5.70	316.25
575.00	0.64	271.77	574.96	5.57	4.12	-4.26	0.68	5.92	314.03
600.00	0.75	271.39	599.95	5.71	4.13	-4.56	0.43	6.15	312.12
625.00	0.79	271.39	624.95	5.87	4.13	-4.90	0.17	6.41	310.15
650.00	0.86	252.23	649.95	5.97	4.08	-5.25	1.13	6.65	307.85
675.00	0.81	242.56	674.95	5.99	3.94	-5.59	0.59	6.84	305.21
700.00	0.81	246.72	699.94	6.00	3.79	-5.91	0.24	7.02	302.69
725.00	0.75	236.94	724.94	5.99	3.63	-6.21	0.59	7.19	300.33
750.00	0.88	237.66	749.94	5.95	3.44	-6.51	0.55	7.36	297.86
775.00	0.89	239.42	774.94	5.91	3.24	-6.84	0.11	7.56	295.33
800.00	1.03	232.58	799.93	5.85	3.00	-7.18	0.72	7.78	292.67
825.00	0.90	234.86	824.93	5.77	2.75	-7.52	0.56	8.01	290.10
850.00	0.93	240.33	849.93	5.73	2.54	-7.86	0.37	8.26	287.91

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
875.00	0.95	238.37	874.92	5.70	2.33	-8.21	0.15	8.53	285.85
900.00	0.94	237.48	899.92	5.66	2.11	-8.56	0.06	8.81	283.86
925.00	0.87	236.16	924.92	5.61	1.90	-8.89	0.32	9.09	282.04
950.00	0.97	238.51	949.91	5.56	1.68	-9.23	0.44	9.38	280.32
975.00	1.24	245.21	974.91	5.55	1.46	-9.65	1.21	9.76	278.57
1000.00	1.23	240.22	999.90	5.54	1.21	-10.13	0.44	10.20	276.80
1025.00	1.18	240.42	1024.90	5.50	0.95	-10.59	0.18	10.63	275.12
1050.00	1.17	243.42	1049.89	5.48	0.71	-11.04	0.25	11.06	273.67
1075.00	1.33	245.59	1074.89	5.49	0.47	-11.53	0.68	11.54	272.35
1100.00	1.27	242.56	1099.88	5.49	0.22	-12.04	0.36	12.05	271.07
1125.00	1.24	234.54	1124.87	5.44	-0.06	-12.51	0.72	12.51	269.72
1150.00	1.17	241.89	1149.87	5.39	-0.34	-12.96	0.67	12.96	268.51
1175.00	1.21	243.14	1174.86	5.37	-0.58	-13.42	0.19	13.43	267.54
1200.00	1.24	244.81	1199.86	5.37	-0.81	-13.90	0.19	13.92	266.65
1225.00	1.32	243.21	1224.85	5.37	-1.06	-14.40	0.33	14.44	265.80
1250.00	1.24	241.47	1249.84	5.36	-1.32	-14.90	0.37	14.95	264.95
1275.00	1.33	243.91	1274.84	5.35	-1.57	-15.39	0.42	15.47	264.17
1300.00	1.54	245.90	1299.83	5.36	-1.84	-15.96	0.88	16.06	263.44
1325.00	2.62	248.79	1324.81	5.42	-2.18	-16.80	4.33	16.94	262.60
1350.00	4.09	247.24	1349.77	5.52	-2.73	-18.15	5.90	18.36	261.44
1375.00	4.94	248.53	1374.69	5.65	-3.47	-19.98	3.43	20.28	260.14
1400.00	5.27	249.34	1399.59	5.85	-4.27	-22.05	1.33	22.46	259.04
1425.00	5.40	248.87	1424.48	6.06	-5.10	-24.23	0.55	24.76	258.11
1450.00	5.42	248.79	1449.37	6.26	-5.95	-26.42	0.08	27.09	257.31
1475.00	5.64	248.66	1474.26	6.46	-6.83	-28.67	0.90	29.47	256.61
1500.00	6.02	248.37	1499.13	6.66	-7.76	-31.03	1.51	31.99	255.97
1525.00	7.80	249.93	1523.94	6.94	-8.82	-33.85	7.17	34.98	255.39
1550.00	8.77	250.52	1548.68	7.33	-10.04	-37.24	3.88	38.57	254.91
1575.00	9.46	250.29	1573.37	7.78	-11.37	-40.97	2.75	42.52	254.49
1600.00	9.61	250.69	1598.02	8.25	-12.75	-44.87	0.67	46.65	254.14
1625.00	9.69	250.42	1622.67	8.73	-14.15	-48.82	0.37	50.83	253.84
1650.00	9.74	250.54	1647.31	9.21	-15.56	-52.80	0.22	55.04	253.58

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
1675.00	9.72	249.69	1671.95	9.67	-16.99	-56.77	0.59	59.26	253.34
1700.00	9.67	251.03	1696.59	10.13	-18.41	-60.74	0.92	63.47	253.14
1725.00	9.74	250.14	1721.23	10.62	-19.81	-64.71	0.67	67.68	252.98
1750.00	9.78	250.77	1745.87	11.10	-21.23	-68.71	0.45	71.91	252.83
1775.00	9.76	250.76	1770.51	11.61	-22.63	-72.71	0.07	76.15	252.72
1800.00	9.74	250.89	1795.15	12.11	-24.02	-76.71	0.13	80.38	252.62
1825.00	9.67	250.63	1819.79	12.61	-25.40	-80.69	0.33	84.60	252.52
1850.00	9.69	250.51	1844.44	13.10	-26.80	-84.66	0.11	88.80	252.43
1875.00	9.71	250.84	1869.08	13.59	-28.20	-88.63	0.24	93.01	252.35
1900.00	9.60	250.51	1893.72	14.08	-29.58	-92.59	0.48	97.20	252.28
1925.00	9.57	251.02	1918.37	14.58	-30.96	-96.52	0.36	101.36	252.22
1950.00	9.51	250.95	1943.03	15.08	-32.31	-100.44	0.26	105.51	252.17
1975.00	9.54	251.29	1967.68	15.60	-33.65	-104.35	0.25	109.64	252.13
2000.00	9.58	251.07	1992.34	16.12	-34.98	-108.28	0.24	113.80	252.10
2025.00	9.57	251.38	2016.99	16.65	-36.32	-112.22	0.21	117.95	252.06
2050.00	9.57	251.73	2041.64	17.20	-37.64	-116.17	0.23	122.11	252.05
2075.00	9.51	251.72	2066.29	17.76	-38.94	-120.10	0.25	126.26	252.04
2100.00	9.39	251.84	2090.95	18.32	-40.22	-124.00	0.49	130.36	252.03
2125.00	9.55	251.90	2115.61	18.89	-41.50	-127.91	0.63	134.47	252.02
2150.00	9.38	251.89	2140.27	19.45	-42.78	-131.82	0.67	138.58	252.02
2175.00	9.37	251.37	2164.94	20.00	-44.06	-135.68	0.34	142.66	252.01
2200.00	9.36	252.08	2189.61	20.55	-45.34	-139.54	0.47	146.73	252.00
2225.00	9.33	251.70	2214.27	21.11	-46.60	-143.40	0.27	150.78	252.00
2250.00	9.39	251.84	2238.94	21.66	-47.87	-147.26	0.26	154.85	251.99
2275.00	9.42	252.00	2263.61	22.23	-49.14	-151.15	0.15	158.93	251.99
2300.00	9.62	250.00	2288.26	22.74	-50.49	-155.05	1.55	163.07	251.96
2325.00	10.01	245.26	2312.90	23.01	-52.11	-158.99	3.60	167.31	251.85
2350.00	10.26	244.04	2337.51	23.06	-53.99	-162.97	1.32	171.68	251.67
2375.00	10.27	243.64	2362.11	23.05	-55.96	-166.97	0.29	176.09	251.47
2400.00	10.31	243.52	2386.70	23.02	-57.95	-170.97	0.18	180.52	251.28
2425.00	10.34	243.59	2411.30	22.99	-59.94	-174.98	0.13	184.96	251.09

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
2450.00	10.27	243.31	2435.90	22.95	-61.94	-178.98	0.32	189.39	250.91
2475.00	10.15	243.31	2460.50	22.90	-63.93	-182.94	0.50	193.79	250.74
2500.00	10.13	243.51	2485.11	22.86	-65.90	-186.87	0.15	198.15	250.58
2525.00	10.19	243.50	2509.72	22.83	-67.87	-190.82	0.25	202.53	250.42
2550.00	10.15	243.44	2534.32	22.79	-69.84	-194.77	0.18	206.91	250.27
2575.00	10.06	243.48	2558.94	22.75	-71.80	-198.70	0.35	211.27	250.13
2600.00	10.04	243.62	2583.55	22.72	-73.74	-202.60	0.13	215.61	250.00
2625.00	10.04	243.00	2608.17	22.67	-75.70	-206.50	0.44	219.94	249.87
2650.00	9.94	244.19	2632.79	22.65	-77.63	-210.38	0.90	224.25	249.75
2675.00	10.02	243.85	2657.41	22.65	-79.53	-214.28	0.38	228.56	249.64
2700.00	9.79	244.41	2682.04	22.66	-81.41	-218.15	0.98	232.84	249.54
2725.00	9.75	244.25	2706.68	22.69	-83.24	-221.97	0.20	237.07	249.44
2750.00	9.61	244.33	2731.32	22.72	-85.07	-225.76	0.57	241.25	249.35
2775.00	9.56	244.30	2755.97	22.74	-86.87	-229.51	0.19	245.40	249.27
2800.00	9.54	244.48	2780.62	22.78	-88.67	-233.25	0.14	249.54	249.19
2825.00	9.54	244.33	2805.28	22.81	-90.46	-236.99	0.10	253.66	249.11
2850.00	9.42	244.08	2829.94	22.83	-92.25	-240.70	0.51	257.77	249.03
2875.00	9.29	243.91	2854.61	22.83	-94.03	-244.35	0.53	261.81	248.95
2900.00	9.34	243.02	2879.28	22.80	-95.84	-247.97	0.61	265.84	248.87
2925.00	9.34	242.97	2903.94	22.73	-97.68	-251.58	0.04	269.88	248.78
2950.00	9.44	241.35	2928.61	22.60	-99.58	-255.19	1.13	273.93	248.68
2975.00	10.29	235.56	2953.24	22.18	-101.83	-258.83	5.21	278.14	248.52
3000.00	10.49	232.45	2977.83	21.40	-104.48	-262.48	2.39	282.51	248.29
3025.00	10.40	233.41	3002.42	20.53	-107.21	-266.09	0.79	286.88	248.05
3050.00	10.46	233.68	3027.00	19.72	-109.90	-269.73	0.31	291.26	247.83
3075.00	10.49	233.59	3051.59	18.90	-112.60	-273.39	0.14	295.67	247.62
3100.00	10.37	233.46	3076.17	18.08	-115.29	-277.03	0.48	300.06	247.41
3125.00	10.41	232.99	3100.76	17.25	-117.99	-280.64	0.38	304.44	247.20
3150.00	10.12	234.04	3125.36	16.44	-120.64	-284.23	1.39	308.77	247.00
3175.00	10.17	233.19	3149.97	15.65	-123.25	-287.77	0.63	313.05	246.82
3200.00	10.18	234.16	3174.58	14.86	-125.86	-291.33	0.69	317.36	246.63
3225.00	10.10	234.16	3199.19	14.11	-128.44	-294.90	0.31	321.66	246.46

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
3250.00	10.11	234.03	3223.80	13.36	-131.02	-298.45	0.09	325.94	246.30
3275.00	10.24	233.78	3248.41	12.59	-133.62	-302.02	0.52	330.26	246.13
3300.00	10.20	234.03	3273.01	11.82	-136.23	-305.60	0.23	334.59	245.97
3325.00	10.46	236.30	3297.61	11.13	-138.79	-309.28	1.94	339.00	245.83
3350.00	10.87	239.28	3322.17	10.64	-141.25	-313.20	2.74	343.58	245.72
3375.00	10.93	240.59	3346.72	10.31	-143.62	-317.29	1.03	348.28	245.65
3400.00	11.12	240.44	3371.26	10.02	-145.97	-321.45	0.74	353.04	245.58
3425.00	11.12	241.48	3395.79	9.77	-148.31	-325.67	0.80	357.85	245.51
3450.00	11.15	240.89	3420.32	9.54	-150.64	-329.90	0.47	362.66	245.46
3475.00	11.11	241.51	3444.85	9.31	-152.97	-334.12	0.51	367.47	245.40
3500.00	11.05	240.19	3469.39	9.05	-155.31	-338.32	1.04	372.26	245.34
3525.00	11.07	241.59	3493.92	8.79	-157.64	-342.51	1.08	377.05	245.29
3550.00	10.90	242.15	3518.46	8.62	-159.88	-346.71	0.81	381.80	245.24
3575.00	10.63	242.22	3543.02	8.47	-162.06	-350.84	1.07	386.46	245.21
3600.00	10.35	242.59	3567.60	8.35	-164.17	-354.88	1.16	391.01	245.17
3625.00	9.94	242.91	3592.21	8.26	-166.19	-358.79	1.66	395.41	245.15
3650.00	9.58	243.34	3616.85	8.20	-168.10	-362.57	1.48	399.64	245.13
3675.00	9.45	242.86	3641.51	8.14	-169.97	-366.25	0.62	403.77	245.10
3700.00	9.04	242.85	3666.18	8.06	-171.81	-369.83	1.61	407.79	245.08
3725.00	8.96	242.42	3690.88	7.97	-173.60	-373.30	0.44	411.69	245.06
3750.00	9.00	242.08	3715.57	7.85	-175.42	-376.75	0.27	415.59	245.03
3775.00	9.25	239.11	3740.25	7.62	-177.37	-380.20	2.13	419.54	244.99
3800.00	9.89	235.02	3764.91	7.12	-179.63	-383.69	3.75	423.65	244.91
3825.00	9.97	234.38	3789.53	6.43	-182.12	-387.21	0.55	427.90	244.81
3850.00	9.91	234.03	3814.16	5.69	-184.64	-390.71	0.34	432.14	244.71
3875.00	9.59	232.95	3838.79	4.93	-187.16	-394.11	1.48	436.30	244.60
3900.00	9.62	232.30	3863.44	4.11	-189.70	-397.43	0.44	440.38	244.48
3925.00	9.44	232.40	3888.10	3.27	-192.22	-400.70	0.71	444.42	244.37
3950.00	9.54	231.68	3912.76	2.42	-194.76	-403.95	0.61	448.45	244.26
3975.00	10.22	232.65	3937.39	1.55	-197.39	-407.34	2.82	452.65	244.15
4000.00	11.18	232.28	3961.95	0.62	-200.22	-411.02	3.86	457.20	244.03
4025.00	11.21	233.87	3986.47	-0.29	-203.14	-414.90	1.24	461.96	243.91

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
4050.00	11.22	233.90	4011.00	-1.14	-206.00	-418.83	0.05	466.75	243.81
4075.00	11.13	233.98	4035.52	-1.98	-208.85	-422.75	0.39	471.53	243.71
4100.00	10.93	233.03	4060.06	-2.85	-211.70	-426.59	1.07	476.23	243.61
4125.00	10.65	232.08	4084.62	-3.77	-214.54	-430.31	1.32	480.83	243.50
4150.00	10.36	231.81	4109.20	-4.72	-217.35	-433.90	1.21	485.29	243.39
4175.00	10.10	231.47	4133.80	-5.67	-220.11	-437.38	1.04	489.64	243.29
4200.00	9.68	231.08	4158.43	-6.61	-222.79	-440.73	1.73	493.84	243.18
4225.00	9.60	230.75	4183.08	-7.56	-225.43	-443.98	0.37	497.93	243.08
4250.00	9.18	230.16	4207.74	-8.51	-228.03	-447.13	1.74	501.92	242.98
4275.00	8.93	229.94	4232.43	-9.45	-230.56	-450.14	1.02	505.75	242.88
4300.00	8.86	229.94	4257.13	-10.39	-233.04	-453.10	0.28	509.52	242.78
4325.00	8.77	230.25	4281.84	-11.30	-235.50	-456.04	0.40	513.26	242.69
4350.00	8.61	230.37	4306.55	-12.20	-237.91	-458.95	0.64	516.95	242.60
4375.00	8.68	230.18	4331.26	-13.08	-240.32	-461.84	0.31	520.62	242.51
4400.00	8.74	230.53	4355.98	-13.97	-242.73	-464.75	0.31	524.32	242.42
4425.00	10.07	236.37	4380.64	-14.70	-245.15	-468.04	6.56	528.35	242.36
4450.00	11.46	240.16	4405.20	-15.16	-247.60	-472.01	6.20	533.01	242.32
4475.00	11.67	241.35	4429.69	-15.43	-250.04	-476.38	1.27	538.02	242.31
4500.00	11.72	240.65	4454.17	-15.70	-252.50	-480.82	0.61	543.08	242.29
4525.00	11.65	241.44	4478.66	-15.95	-254.95	-485.25	0.70	548.15	242.28
4550.00	11.48	241.65	4503.15	-16.16	-257.34	-489.65	0.69	553.16	242.28
4575.00	11.29	242.07	4527.66	-16.34	-259.67	-494.01	0.86	558.09	242.27
4600.00	10.94	241.89	4552.19	-16.51	-261.93	-498.26	1.37	562.91	242.27
4625.00	10.43	242.02	4576.75	-16.67	-264.11	-502.35	2.08	567.55	242.27
4650.00	10.22	242.51	4601.35	-16.80	-266.19	-506.32	0.91	572.03	242.27
4675.00	9.99	241.70	4625.96	-16.94	-268.25	-510.19	1.07	576.41	242.27
4700.00	9.62	244.85	4650.60	-16.99	-270.16	-513.99	2.61	580.67	242.27
4725.00	9.38	246.19	4675.25	-16.88	-271.87	-517.75	1.30	584.79	242.30
4750.00	9.14	248.41	4699.93	-16.65	-273.43	-521.46	1.72	588.79	242.33
4775.00	9.06	248.00	4724.61	-16.36	-274.89	-525.13	0.42	592.73	242.37
4800.00	8.82	249.39	4749.31	-16.03	-276.31	-528.75	1.27	596.59	242.41

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
4825.00	8.33	248.41	4774.03	-15.71	-277.65	-532.22	2.08	600.29	242.45
4850.00	8.15	248.41	4798.77	-15.43	-278.96	-535.55	0.71	603.85	242.49
4875.00	7.95	247.86	4823.53	-15.18	-280.27	-538.80	0.86	607.34	242.52
4900.00	7.71	246.42	4848.29	-14.99	-281.59	-541.94	1.23	610.73	242.54
4925.00	7.65	246.93	4873.07	-14.83	-282.91	-545.01	0.35	614.06	242.57
4950.00	7.66	246.50	4897.85	-14.67	-284.23	-548.07	0.23	617.38	242.59
4975.00	8.13	247.36	4922.61	-14.49	-285.57	-551.23	1.94	620.81	242.61
5000.00	8.80	248.99	4947.34	-14.21	-286.94	-554.65	2.86	624.47	242.65
5025.00	9.00	250.19	4972.04	-13.83	-288.29	-558.27	1.09	628.31	242.69
5050.00	9.31	250.32	4996.72	-13.40	-289.63	-562.02	1.21	632.26	242.74
5075.00	10.44	252.03	5021.35	-12.85	-291.01	-566.07	4.68	636.50	242.79
5100.00	12.02	253.23	5045.87	-12.12	-292.46	-570.72	6.39	641.29	242.87
5125.00	12.90	254.19	5070.28	-11.20	-293.97	-575.90	3.61	646.59	242.96
5150.00	12.92	254.37	5094.65	-10.20	-295.49	-581.27	0.18	652.07	243.05
5175.00	12.85	254.40	5119.02	-9.19	-296.99	-586.64	0.28	657.53	243.15
5200.00	12.23	254.23	5143.42	-8.21	-298.46	-591.87	2.50	662.86	243.24
5225.00	11.82	253.45	5167.87	-7.32	-299.90	-596.87	1.76	667.98	243.32
5250.00	11.65	253.58	5192.35	-6.47	-301.35	-601.74	0.69	672.98	243.40
5275.00	11.64	253.66	5216.84	-5.63	-302.77	-606.58	0.08	677.95	243.47
5300.00	11.51	253.76	5241.33	-4.78	-304.18	-611.40	0.51	682.88	243.55
5325.00	11.52	253.54	5265.82	-3.94	-305.58	-616.19	0.18	687.80	243.62
5350.00	11.52	253.13	5290.32	-3.12	-307.01	-620.97	0.33	692.72	243.69
5375.00	11.41	252.96	5314.82	-2.34	-308.46	-625.72	0.46	697.62	243.76
5400.00	11.38	252.36	5339.33	-1.59	-309.93	-630.44	0.49	702.50	243.82
5425.00	11.35	252.34	5363.84	-0.87	-311.43	-635.13	0.12	707.38	243.88
5450.00	11.35	252.28	5388.35	-0.15	-312.92	-639.82	0.04	712.24	243.94
5475.00	11.24	252.05	5412.86	0.55	-314.42	-644.48	0.47	717.09	243.99
5500.00	11.22	251.76	5437.39	1.22	-315.94	-649.11	0.25	721.91	244.05
5525.00	11.12	251.69	5461.91	1.88	-317.45	-653.71	0.41	726.71	244.10
5550.00	11.14	251.45	5486.44	2.52	-318.98	-658.29	0.21	731.50	244.15
5575.00	11.15	251.55	5510.97	3.15	-320.51	-662.87	0.07	736.29	244.20
5600.00	11.10	251.40	5535.50	3.78	-322.04	-667.44	0.23	741.07	244.24

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
5625.00	11.15	251.26	5560.03	4.40	-323.59	-672.01	0.23	745.86	244.29
5650.00	11.05	250.85	5584.56	5.00	-325.15	-676.56	0.49	750.64	244.33
5675.00	10.97	250.45	5609.10	5.55	-326.73	-681.07	0.44	755.38	244.37
5700.00	10.94	250.38	5633.65	6.09	-328.33	-685.54	0.14	760.11	244.41
5725.00	10.80	249.47	5658.20	6.58	-329.94	-689.97	0.89	764.80	244.44
5750.00	10.59	250.50	5682.77	7.07	-331.53	-694.33	1.11	769.42	244.48
5775.00	10.53	249.89	5707.34	7.57	-333.08	-698.64	0.51	773.98	244.51
5800.00	10.18	249.24	5731.93	8.01	-334.65	-702.85	1.47	778.46	244.54
5825.00	10.20	248.52	5756.54	8.39	-336.25	-706.98	0.52	782.87	244.56
5850.00	9.88	248.81	5781.16	8.74	-337.83	-711.04	1.31	787.22	244.59
5875.00	9.82	248.73	5805.79	9.10	-339.38	-715.03	0.24	791.48	244.61
5900.00	9.85	248.65	5830.42	9.46	-340.93	-719.01	0.15	795.74	244.63
5925.00	9.72	248.42	5855.06	9.80	-342.49	-722.96	0.54	799.98	244.65
5950.00	9.72	247.87	5879.70	10.11	-344.06	-726.88	0.37	804.20	244.67
5975.00	9.57	247.58	5904.34	10.38	-345.65	-730.76	0.65	808.38	244.69
6000.00	9.55	246.78	5929.00	10.61	-347.26	-734.58	0.53	812.53	244.70
6025.00	9.39	247.27	5953.66	10.83	-348.86	-738.37	0.71	816.64	244.71
6050.00	9.38	246.49	5978.32	11.04	-350.47	-742.12	0.50	820.71	244.72
6075.00	8.83	246.34	6003.01	11.21	-352.05	-745.75	2.21	824.67	244.73
6100.00	8.74	246.27	6027.71	11.37	-353.58	-749.24	0.36	828.48	244.74
6125.00	8.60	245.39	6052.43	11.49	-355.13	-752.68	0.79	832.25	244.74
6150.00	7.70	239.42	6077.18	11.41	-356.76	-755.82	4.92	835.79	244.73
6175.00	6.98	233.37	6101.97	11.00	-358.52	-758.48	4.22	838.95	244.70
6200.00	6.81	231.56	6126.79	10.40	-360.34	-760.86	1.12	841.88	244.66
6225.00	6.63	230.63	6151.62	9.75	-362.18	-763.14	0.81	844.72	244.61
6250.00	6.19	221.75	6176.46	8.91	-364.10	-765.15	4.34	847.37	244.55
6275.00	6.08	215.70	6201.32	7.77	-366.18	-766.82	2.62	849.77	244.47
6300.00	5.82	212.49	6226.19	6.49	-368.32	-768.28	1.68	852.00	244.39
6325.00	5.83	211.30	6251.06	5.14	-370.48	-769.62	0.48	854.14	244.29
6350.00	5.55	202.51	6275.93	3.65	-372.68	-770.74	3.66	856.11	244.19
6375.00	5.49	198.25	6300.82	2.00	-374.93	-771.58	1.65	857.85	244.08
6400.00	5.36	195.54	6325.71	0.27	-377.19	-772.26	1.16	859.46	243.97

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
6425.00	5.35	194.92	6350.60	-1.49	-379.45	-772.88	0.23	861.00	243.85
6450.00	5.45	193.66	6375.49	-3.28	-381.73	-773.46	0.63	862.53	243.73
6475.00	5.23	193.08	6400.38	-5.08	-383.99	-774.00	0.91	864.01	243.61
6500.00	5.29	189.36	6425.27	-6.90	-386.24	-774.44	1.38	865.41	243.49
6525.00	4.72	184.33	6450.18	-8.73	-388.40	-774.71	2.89	866.62	243.37
6550.00	4.63	181.88	6475.09	-10.51	-390.43	-774.82	0.87	867.63	243.26
6575.00	4.53	178.61	6500.01	-12.29	-392.43	-774.83	1.12	868.54	243.14
6600.00	4.55	176.69	6524.94	-14.11	-394.41	-774.74	0.61	869.36	243.02
6625.00	4.35	174.08	6549.86	-15.91	-396.34	-774.59	1.15	870.10	242.90
6650.00	4.37	175.75	6574.79	-17.68	-398.23	-774.42	0.51	870.81	242.79
6675.00	4.22	175.25	6599.72	-19.42	-400.09	-774.27	0.61	871.54	242.67
6700.00	3.29	169.79	6624.66	-20.97	-401.72	-774.07	3.98	872.10	242.57
6725.00	2.34	161.86	6649.63	-22.16	-402.91	-773.79	4.08	872.40	242.49
6750.00	1.85	153.94	6674.62	-23.07	-403.75	-773.45	2.28	872.49	242.43
6775.00	1.40	147.96	6699.61	-23.78	-404.38	-773.11	1.90	872.48	242.39
6800.00	1.57	145.22	6724.60	-24.42	-404.92	-772.75	0.72	872.41	242.35
6825.00	1.56	148.27	6749.59	-25.10	-405.49	-772.38	0.33	872.35	242.30
6850.00	1.53	145.88	6774.58	-25.77	-406.05	-772.01	0.29	872.29	242.26
6875.00	1.51	147.26	6799.57	-26.43	-406.61	-771.65	0.17	872.22	242.21
6900.00	1.57	143.77	6824.56	-27.09	-407.16	-771.27	0.45	872.14	242.17
6925.00	1.57	136.89	6849.55	-27.75	-407.68	-770.83	0.75	872.00	242.13
6950.00	1.54	144.94	6874.54	-28.41	-408.21	-770.41	0.88	871.87	242.08
6975.00	1.57	146.55	6899.53	-29.08	-408.77	-770.02	0.21	871.80	242.04
7000.00	1.50	143.89	6924.53	-29.74	-409.32	-769.64	0.38	871.72	241.99
7025.00	1.50	144.21	6949.52	-30.39	-409.85	-769.26	0.03	871.63	241.95
7050.00	1.54	142.61	6974.51	-31.04	-410.38	-768.86	0.24	871.53	241.91
7075.00	1.50	149.08	6999.50	-31.70	-410.93	-768.49	0.71	871.46	241.87
7100.00	1.61	149.87	7024.49	-32.38	-411.51	-768.14	0.45	871.43	241.82
7125.00	1.51	150.06	7049.48	-33.06	-412.11	-767.80	0.41	871.41	241.78
7150.00	1.52	147.11	7074.47	-33.71	-412.67	-767.46	0.31	871.37	241.73
7175.00	1.60	147.90	7099.46	-34.39	-413.24	-767.09	0.34	871.32	241.69

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
7200.00	1.67	150.07	7124.45	-35.10	-413.85	-766.73	0.36	871.29	241.64
7225.00	1.50	154.15	7149.44	-35.79	-414.46	-766.40	0.82	871.29	241.60
7250.00	1.51	150.45	7174.43	-36.44	-415.04	-766.10	0.39	871.30	241.55
7275.00	1.64	151.69	7199.42	-37.13	-415.65	-765.76	0.53	871.30	241.51
7300.00	1.58	152.25	7224.41	-37.83	-416.27	-765.43	0.26	871.30	241.46
7325.00	1.61	146.93	7249.41	-38.53	-416.86	-765.08	0.60	871.28	241.42
7350.00	1.53	152.32	7274.40	-39.21	-417.45	-764.74	0.68	871.26	241.37
7375.00	1.68	149.40	7299.39	-39.91	-418.06	-764.39	0.70	871.25	241.32
7400.00	1.56	151.01	7324.38	-40.61	-418.68	-764.04	0.52	871.24	241.28
7425.00	1.56	148.84	7349.37	-41.29	-419.27	-763.70	0.24	871.22	241.23
7450.00	1.51	150.25	7374.36	-41.96	-419.85	-763.36	0.28	871.20	241.19
7475.00	1.34	152.07	7399.35	-42.58	-420.39	-763.06	0.69	871.20	241.15
7500.00	1.34	151.59	7424.34	-43.16	-420.90	-762.79	0.05	871.21	241.11
7525.00	1.28	152.45	7449.34	-43.73	-421.41	-762.52	0.24	871.22	241.07
7550.00	1.30	152.70	7474.33	-44.30	-421.91	-762.26	0.08	871.23	241.04
7575.00	1.19	152.47	7499.32	-44.84	-422.39	-762.01	0.45	871.25	241.00
7600.00	1.25	157.34	7524.32	-45.37	-422.87	-761.78	0.48	871.28	240.96
7625.00	0.95	162.12	7549.31	-45.85	-423.32	-761.61	1.25	871.35	240.93
7650.00	0.99	165.80	7574.31	-46.27	-423.73	-761.50	0.30	871.45	240.91
7675.00	0.96	169.25	7599.31	-46.68	-424.15	-761.40	0.27	871.57	240.88
7700.00	0.97	167.52	7624.30	-47.09	-424.56	-761.32	0.12	871.70	240.85
7725.00	1.01	165.16	7649.30	-47.51	-424.98	-761.22	0.23	871.81	240.83
7750.00	0.95	160.40	7674.30	-47.93	-425.39	-761.09	0.41	871.90	240.80
7775.00	0.93	161.18	7699.29	-48.34	-425.77	-760.96	0.09	871.97	240.77
7800.00	0.95	161.23	7724.29	-48.75	-426.16	-760.82	0.09	872.05	240.75
7825.00	0.86	159.93	7749.29	-49.14	-426.53	-760.69	0.37	872.12	240.72
7850.00	0.88	159.19	7774.28	-49.52	-426.89	-760.56	0.08	872.17	240.70
7875.00	0.86	158.31	7799.28	-49.90	-427.24	-760.42	0.08	872.23	240.67
7900.00	0.91	161.36	7824.28	-50.28	-427.61	-760.29	0.27	872.29	240.65
7925.00	0.99	165.80	7849.27	-50.69	-428.01	-760.17	0.44	872.38	240.62
7950.00	0.89	162.92	7874.27	-51.10	-428.40	-760.06	0.45	872.48	240.59
7975.00	0.88	166.09	7899.27	-51.47	-428.77	-759.96	0.21	872.57	240.57

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
8000.00	0.93	164.78	7924.26	-51.86	-429.15	-759.86	0.22	872.68	240.54
8025.00	0.89	160.04	7949.26	-52.25	-429.53	-759.74	0.34	872.76	240.52
8050.00	1.01	169.52	7974.26	-52.66	-429.93	-759.64	0.78	872.86	240.49
8075.00	0.90	167.61	7999.25	-53.06	-430.34	-759.55	0.44	872.99	240.47
8100.00	0.99	169.38	8024.25	-53.46	-430.74	-759.47	0.38	873.12	240.44
8125.00	1.06	163.63	8049.25	-53.89	-431.18	-759.37	0.49	873.24	240.41
8150.00	1.04	172.41	8074.24	-54.34	-431.62	-759.27	0.65	873.38	240.38
8175.00	0.92	166.83	8099.24	-54.75	-432.04	-759.20	0.62	873.52	240.36
8200.00	0.91	166.49	8124.24	-55.14	-432.43	-759.10	0.03	873.63	240.33
8225.00	0.91	167.88	8149.23	-55.52	-432.82	-759.02	0.09	873.75	240.31
8250.00	0.86	172.22	8174.23	-55.89	-433.20	-758.95	0.32	873.88	240.28
8275.00	0.95	167.97	8199.23	-56.27	-433.59	-758.88	0.43	874.01	240.26
8300.00	0.92	168.12	8224.22	-56.67	-433.99	-758.80	0.11	874.14	240.23
8325.00	0.79	161.22	8249.22	-57.03	-434.34	-758.70	0.66	874.23	240.21
8350.00	0.84	168.80	8274.22	-57.38	-434.69	-758.61	0.48	874.32	240.19
8375.00	0.99	165.30	8299.21	-57.77	-435.08	-758.52	0.64	874.44	240.16
8400.00	0.92	168.09	8324.21	-58.18	-435.49	-758.42	0.34	874.56	240.14
8425.00	0.95	169.61	8349.21	-58.58	-435.89	-758.34	0.13	874.69	240.11
8450.00	0.97	172.42	8374.20	-58.98	-436.30	-758.28	0.21	874.84	240.08
8475.00	0.97	167.61	8399.20	-59.38	-436.71	-758.20	0.32	874.98	240.06
8500.00	0.94	172.72	8424.20	-59.78	-437.12	-758.13	0.36	875.12	240.03
8525.00	1.01	172.32	8449.19	-60.18	-437.55	-758.08	0.29	875.29	240.01
8550.00	1.04	171.61	8474.19	-60.61	-437.99	-758.01	0.10	875.45	239.98
8575.00	0.98	171.29	8499.19	-61.03	-438.42	-757.95	0.24	875.61	239.95
8600.00	1.06	162.67	8524.18	-61.46	-438.86	-757.85	0.69	875.74	239.93
8625.00	1.01	174.41	8549.18	-61.89	-439.29	-757.76	0.87	875.89	239.90
8650.00	1.20	185.16	8574.17	-62.32	-439.77	-757.76	1.12	876.13	239.87
8675.00	1.04	184.01	8599.17	-62.74	-440.26	-757.80	0.65	876.40	239.84
8700.00	0.88	190.05	8624.17	-63.09	-440.67	-757.85	0.74	876.66	239.82
8725.00	1.00	182.56	8649.16	-63.44	-441.08	-757.89	0.67	876.90	239.80
8750.00	1.08	172.44	8674.16	-63.85	-441.53	-757.87	0.80	877.11	239.78
8775.00	1.04	177.41	8699.15	-64.28	-441.99	-757.83	0.39	877.30	239.75

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
8800.00	1.10	180.55	8724.15	-64.71	-442.46	-757.82	0.33	877.53	239.72
8825.00	1.20	187.11	8749.14	-65.14	-442.96	-757.86	0.66	877.81	239.69
8850.00	1.11	178.39	8774.14	-65.58	-443.46	-757.88	0.80	878.09	239.67
8875.00	1.22	185.18	8799.13	-66.03	-443.97	-757.90	0.73	878.36	239.64
8900.00	1.01	184.42	8824.13	-66.45	-444.45	-757.94	0.87	878.64	239.61
8925.00	1.00	181.01	8849.13	-66.83	-444.89	-757.96	0.24	878.88	239.59
8950.00	1.13	182.02	8874.12	-67.24	-445.36	-757.97	0.52	879.13	239.56
8975.00	1.11	183.19	8899.12	-67.67	-445.84	-757.99	0.14	879.39	239.54
9000.00	1.08	182.87	8924.11	-68.09	-446.32	-758.02	0.09	879.66	239.51
9025.00	1.08	185.15	8949.11	-68.50	-446.79	-758.05	0.17	879.92	239.49
9050.00	1.05	187.36	8974.10	-68.89	-447.25	-758.10	0.21	880.20	239.46
9075.00	1.06	186.23	8999.10	-69.28	-447.71	-758.16	0.10	880.48	239.44
9100.00	1.12	180.13	9024.09	-69.70	-448.19	-758.18	0.53	880.75	239.41
9125.00	1.08	184.10	9049.09	-70.12	-448.67	-758.20	0.35	881.01	239.38
9150.00	1.01	187.03	9074.09	-70.51	-449.12	-758.25	0.37	881.28	239.36
9175.00	0.25	200.31	9099.08	-70.73	-449.39	-758.29	3.06	881.45	239.35
9200.00	0.23	20.71	9124.08	-70.74	-449.40	-758.29	1.93	881.46	239.35
9225.00	0.14	35.05	9149.08	-70.69	-449.33	-758.26	0.40	881.39	239.35
9250.00	0.07	326.69	9174.08	-70.66	-449.29	-758.25	0.52	881.36	239.35
9275.00	0.07	201.16	9199.08	-70.65	-449.29	-758.26	0.47	881.38	239.35
9300.00	0.28	193.48	9224.08	-70.71	-449.36	-758.28	0.86	881.43	239.35
9325.00	0.36	190.11	9249.08	-70.82	-449.50	-758.31	0.34	881.52	239.34
9350.00	0.42	205.56	9274.08	-70.94	-449.66	-758.36	0.47	881.65	239.33
9375.00	0.46	200.55	9299.08	-71.07	-449.84	-758.44	0.22	881.80	239.33
9400.00	0.37	202.90	9324.08	-71.19	-450.01	-758.50	0.34	881.95	239.32
9425.00	0.34	120.35	9349.08	-71.31	-450.12	-758.47	1.90	881.98	239.31
9450.00	0.51	99.36	9374.08	-71.43	-450.18	-758.29	0.91	881.86	239.30
9475.00	0.51	96.22	9399.08	-71.56	-450.21	-758.07	0.12	881.68	239.29
9500.00	0.60	95.53	9424.08	-71.69	-450.23	-757.83	0.37	881.49	239.29
9525.00	0.66	94.82	9449.08	-71.83	-450.26	-757.56	0.23	881.27	239.27
9550.00	0.52	89.74	9474.07	-71.95	-450.27	-757.31	0.57	881.05	239.27

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
9575.00	0.69	104.08	9499.07	-72.10	-450.30	-757.05	0.90	880.85	239.26
9600.00	0.73	115.75	9524.07	-72.32	-450.41	-756.76	0.60	880.65	239.24
9625.00	0.87	116.88	9549.07	-72.60	-450.56	-756.44	0.58	880.46	239.22
9650.00	0.98	112.81	9574.07	-72.91	-450.73	-756.08	0.49	880.23	239.20
9675.00	1.07	119.78	9599.06	-73.26	-450.93	-755.68	0.62	879.99	239.17
9700.00	1.02	114.10	9624.06	-73.63	-451.14	-755.27	0.45	879.75	239.15
9725.00	1.21	122.08	9649.05	-74.02	-451.37	-754.84	0.98	879.50	239.12
9750.00	1.42	129.47	9674.05	-74.53	-451.71	-754.38	1.07	879.28	239.09
9775.00	1.74	136.50	9699.04	-75.17	-452.18	-753.88	1.48	879.09	239.04
9800.00	2.24	142.78	9724.02	-76.01	-452.84	-753.32	2.20	878.96	238.99
9825.00	2.72	147.49	9749.00	-77.08	-453.73	-752.71	2.07	878.89	238.92
9850.00	3.16	150.46	9773.97	-78.36	-454.83	-752.05	1.87	878.89	238.83
9875.00	3.21	155.91	9798.93	-79.75	-456.07	-751.43	1.22	879.00	238.74
9900.00	2.90	162.03	9823.89	-81.07	-457.31	-750.95	1.77	879.23	238.66
9925.00	2.88	167.11	9848.86	-82.31	-458.53	-750.61	1.03	879.58	238.58
9950.00	2.71	170.96	9873.83	-83.49	-459.72	-750.38	1.01	880.01	238.51
9975.00	2.42	169.04	9898.80	-84.56	-460.83	-750.18	1.22	880.42	238.44
10000.00	1.61	180.64	9923.79	-85.39	-461.69	-750.09	3.63	880.79	238.39
10025.00	0.72	221.85	9948.78	-85.76	-462.16	-750.20	4.66	881.13	238.36
10050.00	0.61	250.24	9973.78	-85.80	-462.32	-750.42	1.37	881.41	238.36
10075.00	0.22	292.95	9998.78	-85.75	-462.35	-750.59	1.88	881.56	238.37
10100.00	0.29	21.82	10023.78	-85.67	-462.27	-750.61	1.45	881.54	238.37
10125.00	0.26	50.46	10048.78	-85.62	-462.18	-750.55	0.56	881.44	238.38
10150.00	0.18	78.31	10073.78	-85.61	-462.13	-750.47	0.51	881.34	238.38
10175.00	0.21	141.22	10098.78	-85.67	-462.16	-750.40	0.82	881.30	238.37
10200.00	0.26	191.53	10123.78	-85.76	-462.25	-750.38	0.83	881.33	238.37
10225.00	0.45	204.08	10148.78	-85.87	-462.40	-750.43	0.82	881.46	238.36
10250.00	0.66	209.61	10173.78	-86.01	-462.61	-750.54	0.84	881.66	238.35
10275.00	0.88	217.98	10198.78	-86.18	-462.89	-750.73	1.00	881.97	238.34
10300.00	1.01	222.94	10223.77	-86.34	-463.20	-751.00	0.62	882.36	238.33
10325.00	1.21	225.84	10248.77	-86.50	-463.55	-751.34	0.83	882.83	238.33
10350.00	1.09	260.71	10273.76	-86.52	-463.77	-751.77	2.80	883.31	238.33

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
10375.00	1.43	295.61	10298.76	-86.20	-463.68	-752.28	3.29	883.70	238.35
10400.00	1.60	308.48	10323.75	-85.64	-463.32	-752.84	1.52	883.99	238.39
10425.00	1.66	307.43	10348.74	-85.00	-462.89	-753.40	0.24	884.24	238.43
10450.00	1.66	307.08	10373.73	-84.36	-462.45	-753.97	0.05	884.50	238.48
10475.00	1.54	301.37	10398.72	-83.75	-462.06	-754.55	0.80	884.78	238.52
10500.00	1.48	287.85	10423.71	-83.24	-461.78	-755.15	1.44	885.15	238.55
10525.00	1.49	280.61	10448.70	-82.82	-461.62	-755.77	0.75	885.60	238.58
10550.00	1.50	270.97	10473.69	-82.48	-461.56	-756.42	1.01	886.12	238.61
10575.00	1.62	267.39	10498.68	-82.19	-461.57	-757.10	0.60	886.71	238.63
10600.00	1.60	272.48	10523.67	-81.88	-461.57	-757.80	0.57	887.30	238.65
10625.00	1.65	292.58	10548.66	-81.45	-461.41	-758.48	2.27	887.81	238.69
10650.00	1.87	288.65	10573.65	-80.89	-461.15	-759.20	1.02	888.28	238.73
10675.00	1.77	294.43	10598.64	-80.31	-460.86	-759.94	0.84	888.76	238.77
10700.00	1.90	288.33	10623.63	-79.72	-460.57	-760.68	0.93	889.25	238.81
10725.00	1.88	274.14	10648.61	-79.22	-460.41	-761.49	1.87	889.85	238.84
10750.00	1.99	270.19	10673.60	-78.83	-460.38	-762.33	0.69	890.55	238.87
10775.00	2.12	264.40	10698.58	-78.47	-460.42	-763.22	0.98	891.34	238.90
10800.00	2.07	266.00	10723.57	-78.14	-460.50	-764.13	0.29	892.16	238.93
10825.00	2.08	262.47	10748.55	-77.83	-460.59	-765.03	0.51	892.98	238.95
10850.00	2.07	262.52	10773.53	-77.54	-460.70	-765.93	0.03	893.81	238.97
10875.00	1.90	257.08	10798.52	-77.30	-460.86	-766.78	1.00	894.62	238.99
10900.00	1.93	254.28	10823.51	-77.13	-461.06	-767.59	0.39	895.42	239.01
10925.00	1.71	245.49	10848.49	-77.05	-461.33	-768.33	1.42	896.19	239.02
10950.00	1.66	230.25	10873.48	-77.12	-461.72	-768.95	1.79	896.92	239.02
10975.00	1.71	212.86	10898.47	-77.40	-462.26	-769.43	2.05	897.62	239.00
11000.00	1.26	208.34	10923.46	-77.76	-462.82	-769.77	1.85	898.19	238.98
11025.00	1.08	194.38	10948.46	-78.10	-463.29	-769.96	1.35	898.59	238.96
11050.00	0.91	204.42	10973.45	-78.40	-463.70	-770.10	0.98	898.92	238.95
11075.00	1.14	201.40	10998.45	-78.69	-464.11	-770.27	0.93	899.28	238.93
11100.00	1.41	183.25	11023.44	-79.13	-464.65	-770.38	1.93	899.65	238.90
11125.00	1.50	195.64	11048.44	-79.64	-465.27	-770.48	1.31	900.06	238.87
11143.00	1.46	187.52	11066.43	-80.01	-465.72	-770.58	1.19	900.38	238.85

OPERATOR: PDEH LLC

WELL LOCATION

LEASE NAME & WELL NO.:

UL 20 GOLD SPOON #2904H

LEASE ACREAGE:

640.700 ACRES (CALLED)

NEAREST TOWN IN COUNTY:

±16.0 MILES SOUTHEAST OF MENTONE, TEXAS

DESCRIPTION:

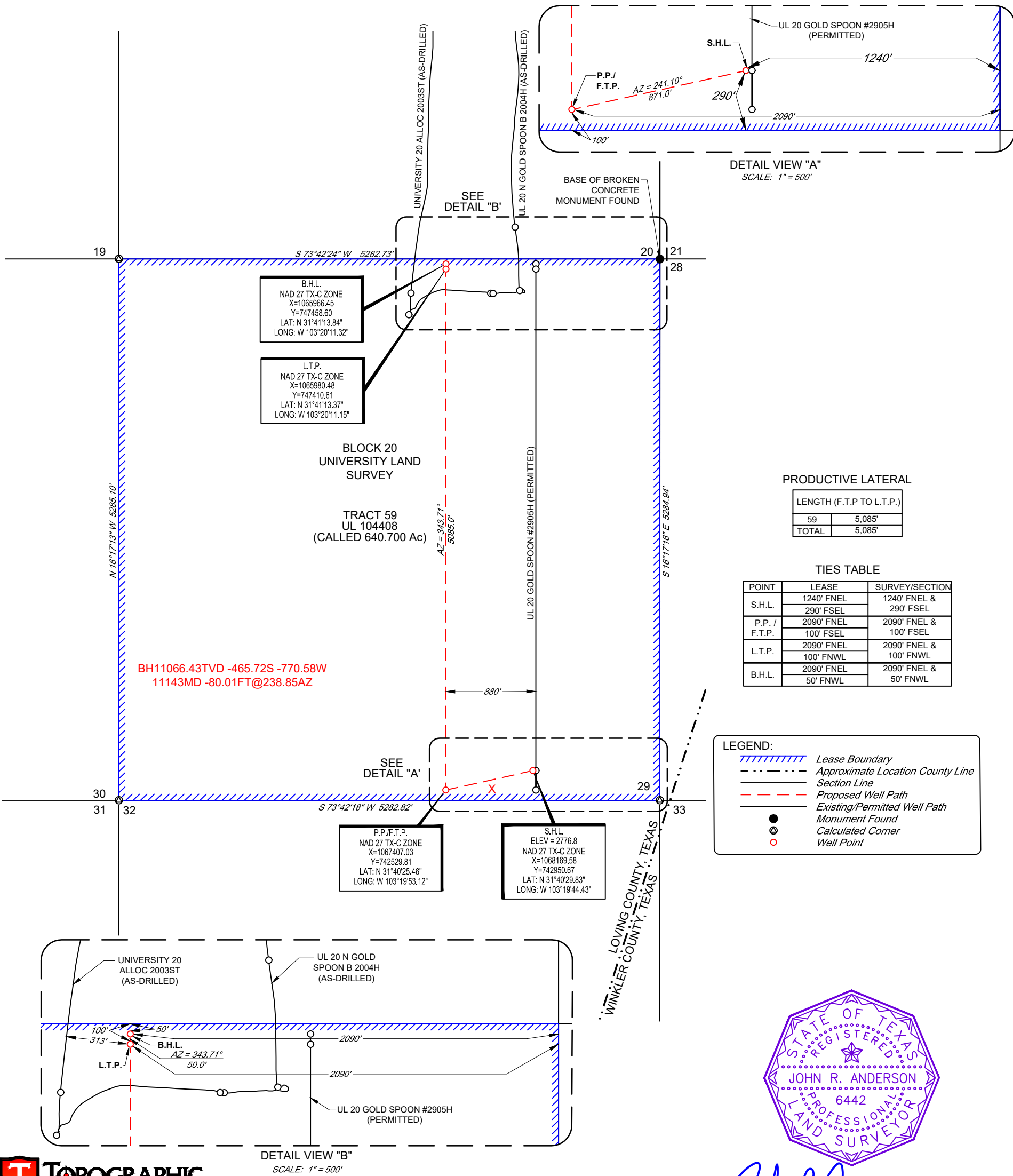
S.H.L./P.P./F.T.P.: SECTION 29, BLOCK 20, UNIVERSITY LAND SURVEY

L.T.P/B.H.L.: SECTION 29, BLOCK 20, UNIVERSITY LAND SURVEY

LOVING COUNTY, TEXAS



SCALE: 1" = 1000'
0' 500' 1000'



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM



John R. Anderson 7/12/2022
John R. Anderson, R.P.L.S. No. 6442

UL-20-29-P4 UL 20 GOLD SPOON #2904H	REVISION:		NOTES:	NOTES CONT'D:
	INT	DATE		
DATE: 07/11/2022			1. ORIGINAL DOCUMENT SIZE: 11" X 17" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927. UNLESS OTHERWISE NOTED. 3. THIS LOCATION AND/OR UNIT/LEASE BOUNDARY HAS BEEN CAREFULLY SURVEYED ON THE GROUND UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE ACCORDING TO THE EVIDENCE, OFFICIAL SURVEY RECORDS, MAPS, AND OTHER DATA PROVIDED BY PERMIAN DELAWARE ENTERPRISES HOLDINGS, LLC. THIS PLAT WAS CREATED FOR THE SOLE PURPOSE OF FILING A PERMIT WITH THE RAILROAD COMMISSION OF TEXAS AND SHOULD NOT BE CONSTRUED AS A "BOUNDARY SURVEY" IN COMPLIANCE WITH T.B.P.L.S. MINIMUM STANDARDS OF PROCEDURES FOR BOUNDARY SURVEYS. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY. 4. ALL ELEVATION VALUES CONTAINED HEREON ARE ORTHOMETRIC ONLY, BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), U.S. SURVEY FEET. 5. ALL MINERAL OWNERSHIP DATA SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY PERMIAN DELAWARE ENTERPRISES HOLDINGS, LLC OR ITS SUBSIDIARIES & AFFILIATES.	6. THE PRELIMINARY LOCATION HAS BEEN CAREFULLY SURVEYED ON THE GROUND DURING THE DATE OF JUNE 18, 2022. 7. S.H.L. = SURFACE HOLE LOCATION 8. P.P. = POINT OF PENETRATION 9. F.T.P. = FIRST TAKE POINT 10. L.T.P. = LAST TAKE POINT 11. B.H.L. = BOTTOM HOLE LOCATION
FILE: LO_UL_20_29_P4_GOLD SPOON_#2904H				
DRAWN BY: A.C.L./O.M.				
SHEET: 1 OF 1				



Scientific Drilling International, Inc.

325 Faudree Road

Odessa, Texas 79765

Tel: 432.689.5600 Fax: 432.563.6255

www.scientificdrilling.com

State of Texas
County of Midland

I, Colin Booher, certify that; I am employed by Scientific Drilling International; that I did on the day(s) of 5/21/2023 through 5/22/2023 conduct or supervise the taking of a Keeper Gyro survey from a depth of 100 feet to a depth of 11143 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Scientific Drilling International; that I am authorized and qualified to make this report; that this survey was conducted at the request of Conoco Phillips for the UL 20 Gold Spoon #2904H Well, API# 42-301-36072 in Loving/Winkler County, Texas; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Scientific Drilling International.

A handwritten signature in blue ink, appearing to read 'C. Booher', is written over a horizontal line.

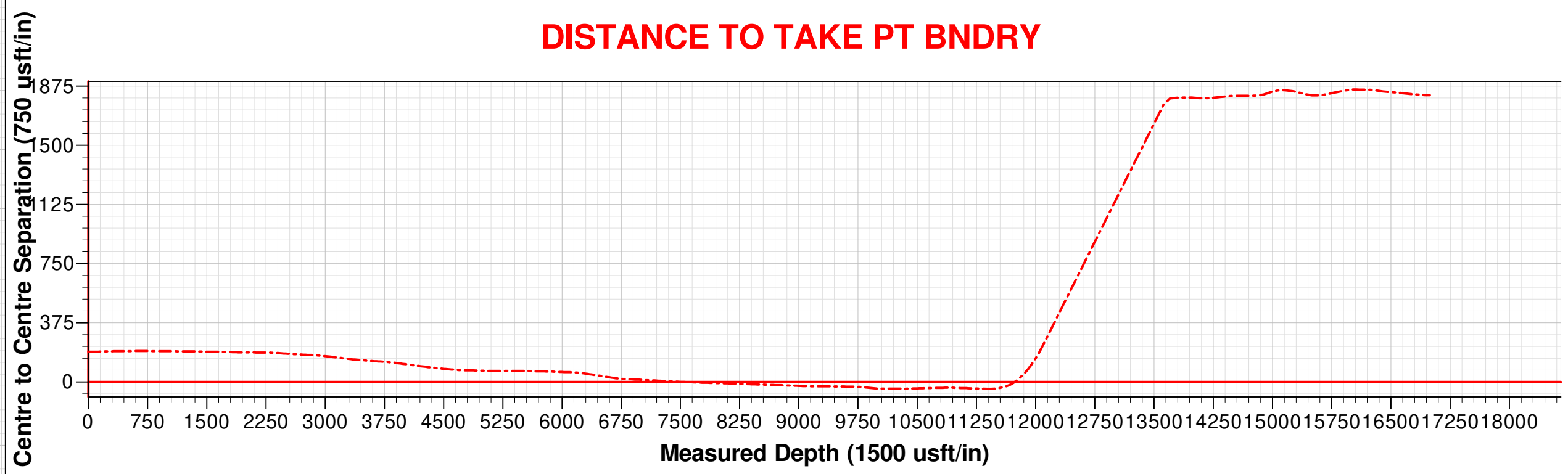
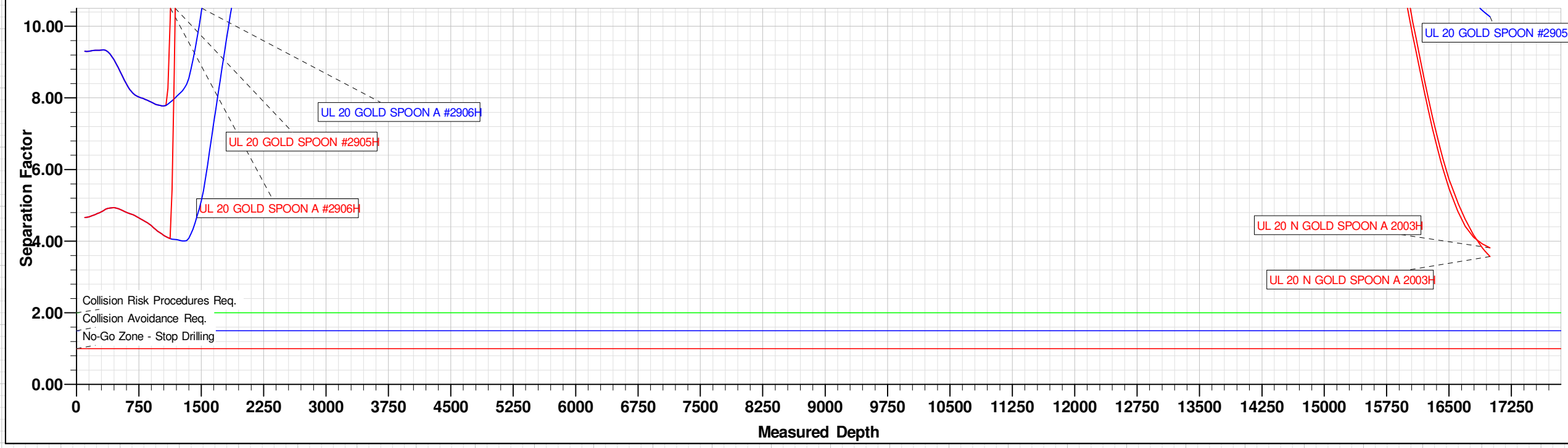
Field Technician

ConocoPhillips

Project: LOVING/WINKLER COUNTY, TX
Site: UL 20 GOLD SPOON
Well: UL 20 GOLD SPOON #2904H
Wellbore: OWB
Design: AWP
GL: 2776.8
RKB=32ft @ 2808.8usft (Nabors X04)

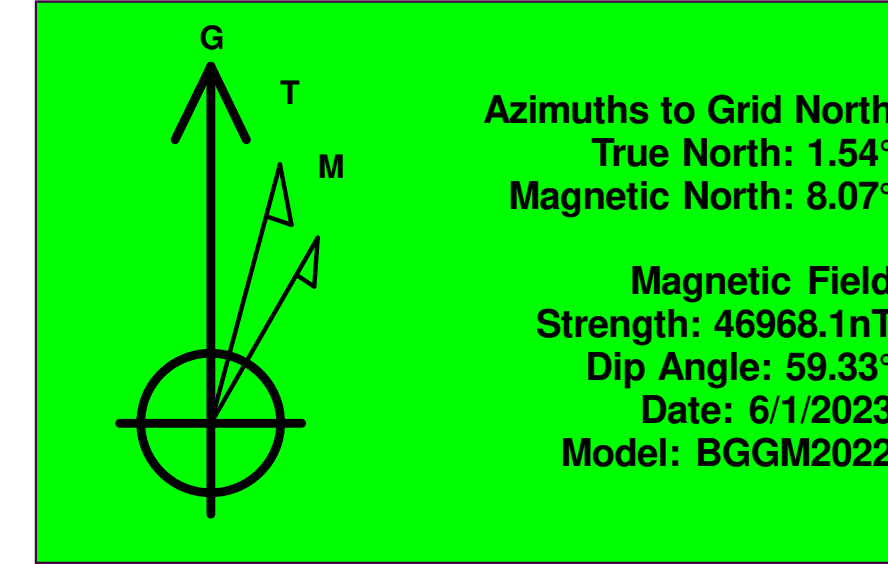
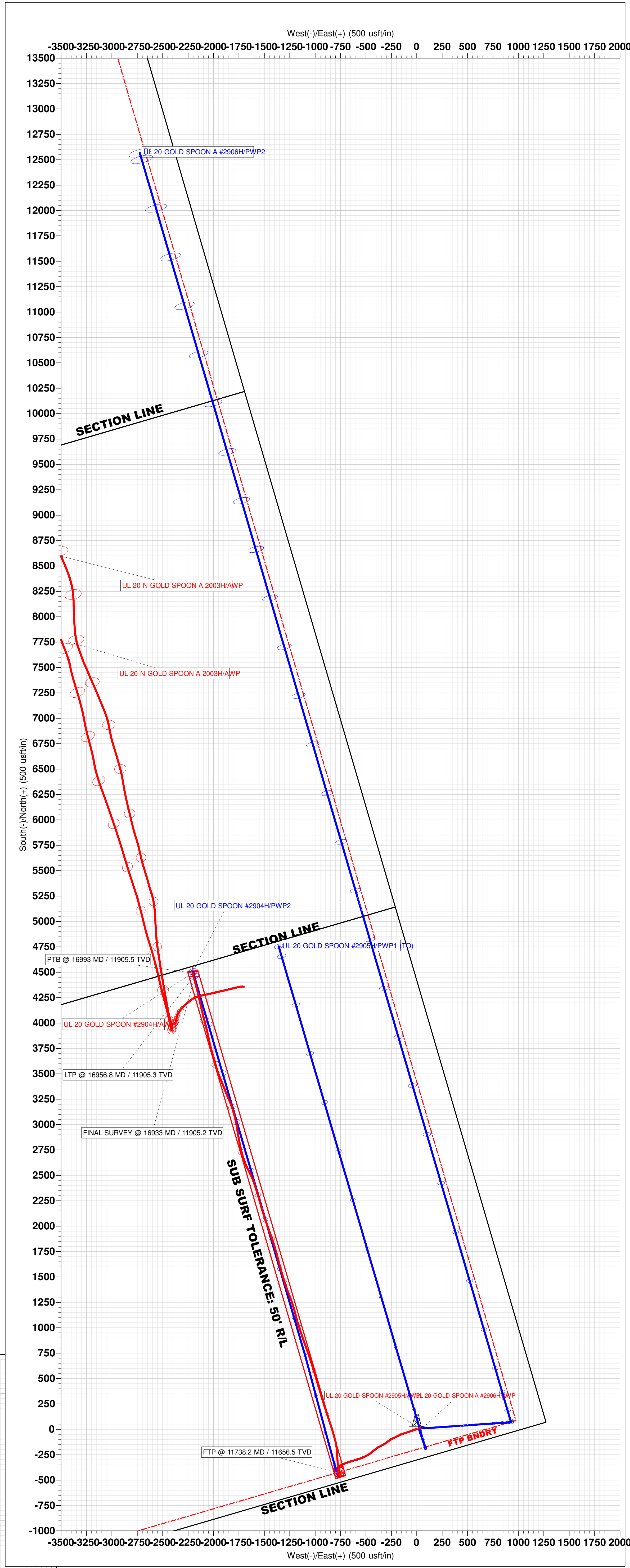
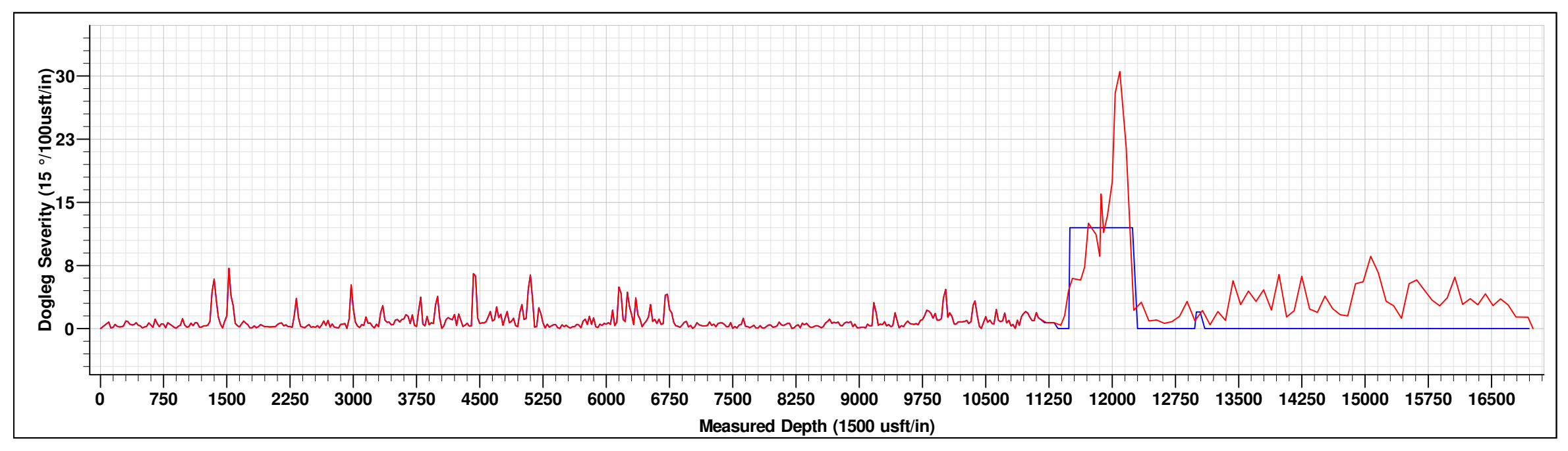
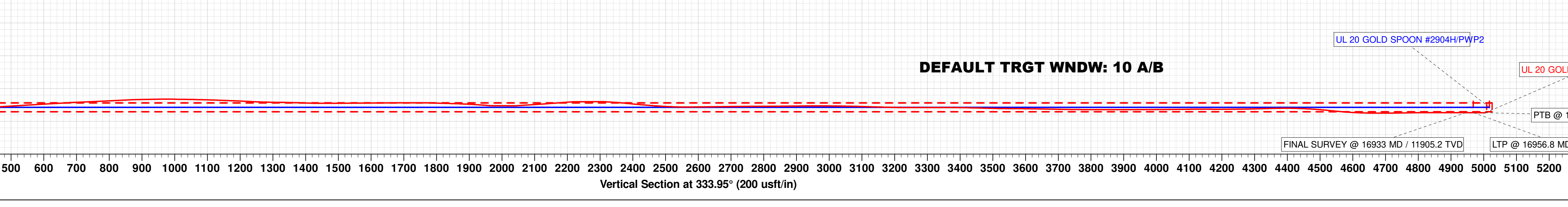
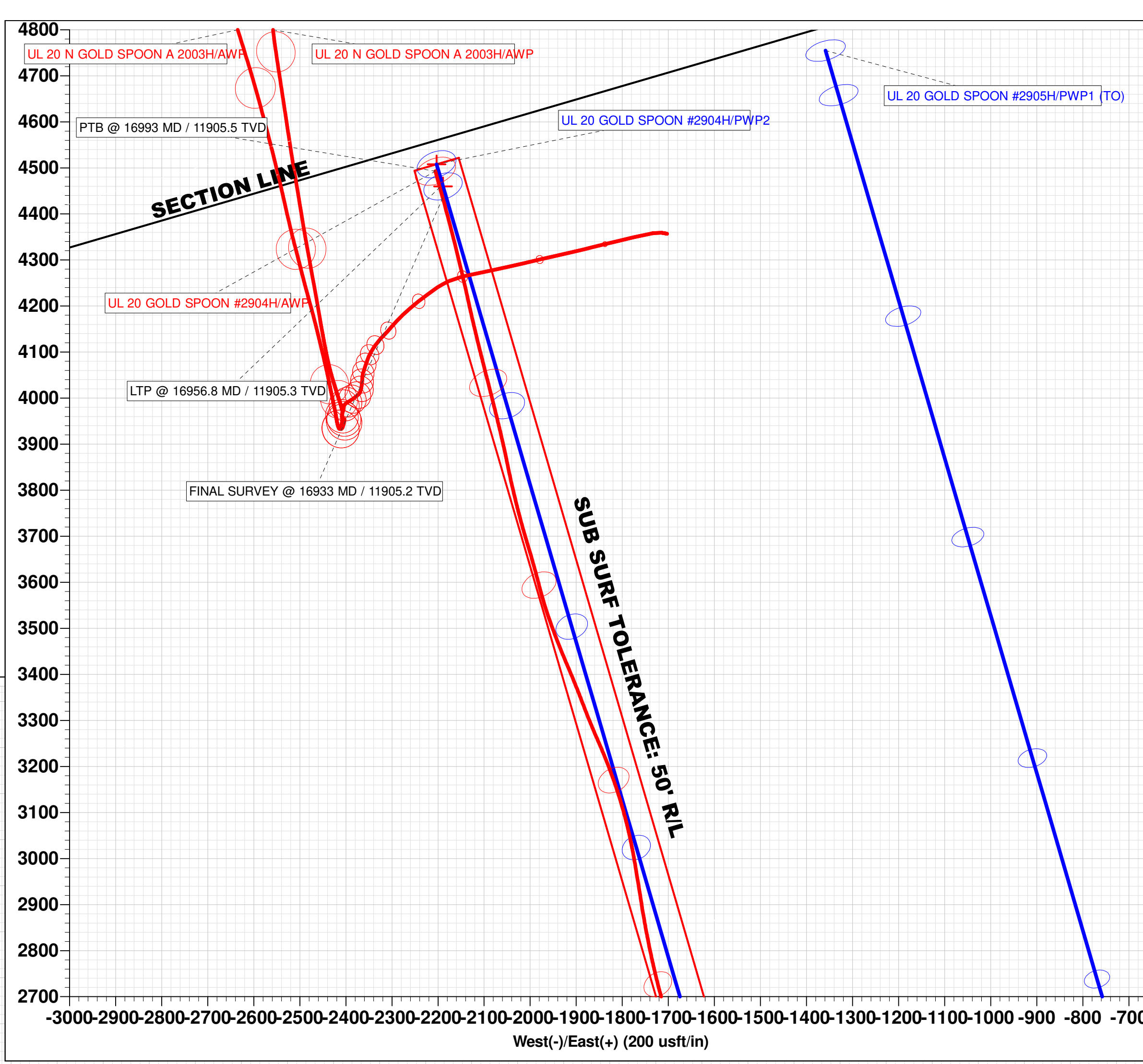
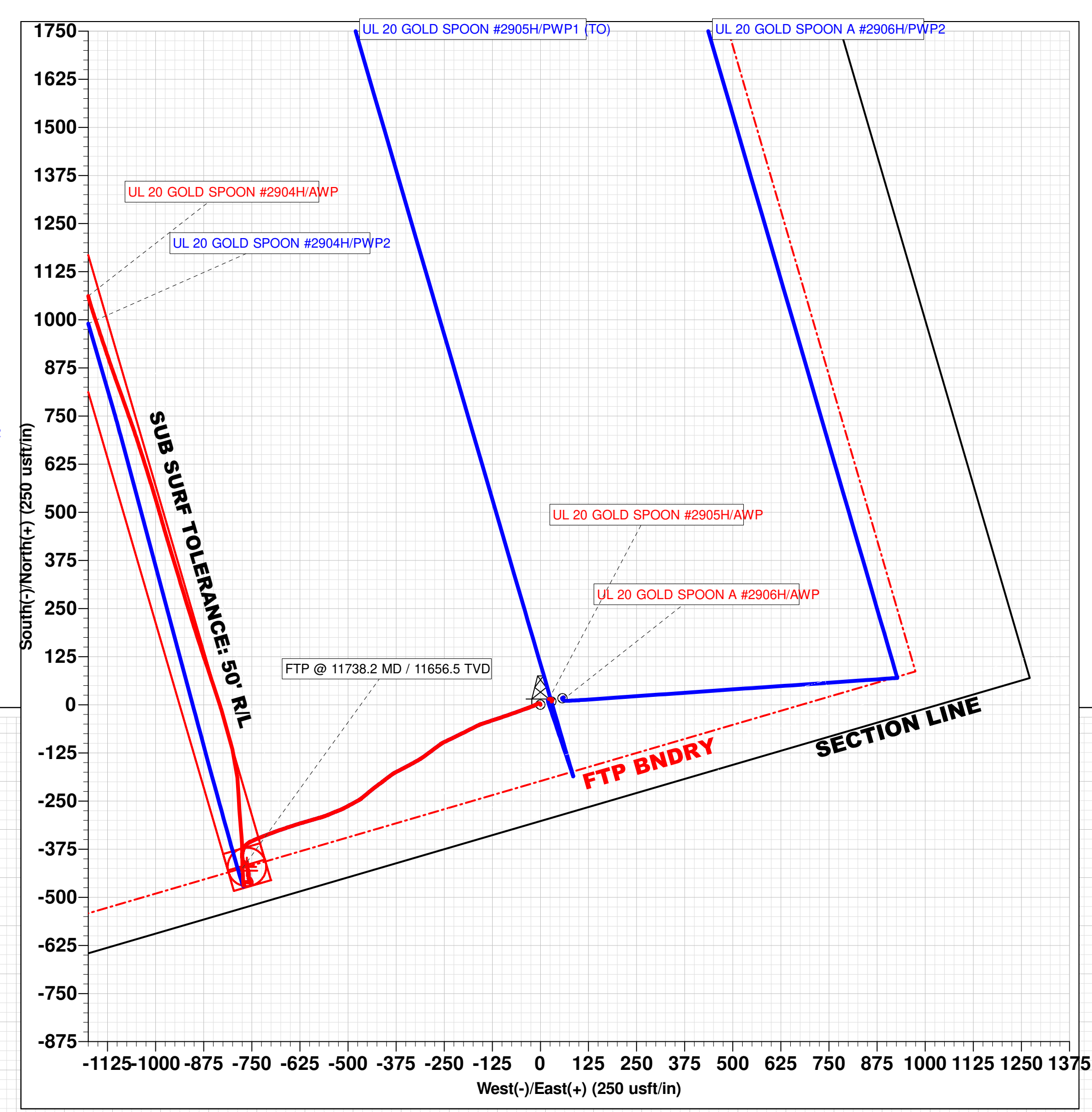
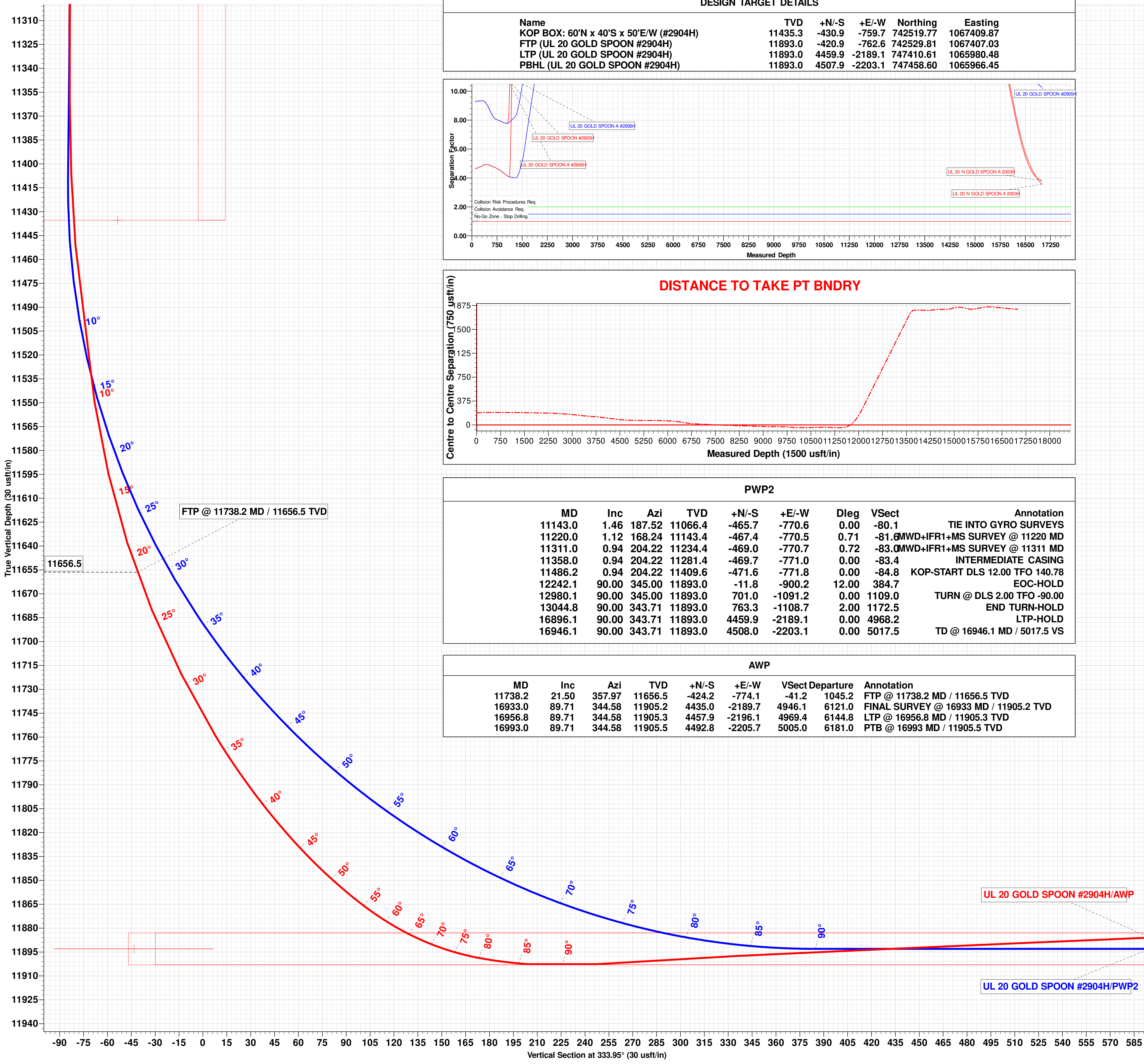
WELL DETAILS: UL 20 GOLD SPOON #2904H					
+N-S	+E-W	North	Easting	Latitude	Longitude
0.0	0.0	742950.67	1068169.58	31° 40' 29.830 N	103° 19' 44.430 W

DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	North	Easting
KOP BOX: 60°N x 40°S x 50°E/W (#2904H)	11435.3	-430.9	-759.7	742519.77	1067409.87
FTP (UL 20 GOLD SPOON #2904H)	11893.0	-420.9	-762.6	742529.81	1067407.03
LTP (UL 20 GOLD SPOON #2904H)	11893.0	4459.9	-2189.1	747410.61	1065980.48
PBHL (UL 20 GOLD SPOON #2904H)	11893.0	4507.9	-2203.1	747458.60	1065966.45



PWP2									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	Vsect	Annotation	
11143.0	1.46	187.52	11066.4	-465.7	-770.6	0.00	-80.1	TIE INTO GYRO SURVEYS	
11220.0	1.12	168.24	11143.4	-467.4	-770.5	0.71	-81.0MWD+IFR1+MS SURVEY @ 11220 MD		
11311.0	0.94	204.22	11234.4	-469.0	-770.7	0.72	-83.0MWD+IFR1+MS SURVEY @ 11311 MD		
11358.0	0.94	204.22	11281.4	-469.7	-771.0	0.00	-83.4	INTERMEDIATE CASING	
11486.2	0.94	204.22	11409.6	-471.6	-771.8	0.00	-84.8	KOP-START DLS 12.00 TFO 140.78	
12242.1	90.00	345.00	11893.0	-11.8	-900.2	12.00	384.7	EOC-HOLD	
12980.1	90.00	345.00	11893.0	701.0	-1091.2	0.00	1109.0	TURN @ DLS 2.00 TFO -90.00	
13044.8	90.00	343.71	11893.0	763.3	-1108.7	2.00	1172.5	END TURN-HOLD	
16896.1	90.00	343.71	11893.0	4459.9	-2189.1	0.00	4968.2	LTP-HOLD	
16946.1	90.00	343.71	11893.0	4508.0	-2203.1	0.00	5017.5	TD @ 16946.1 MD / 5017.5 VS	

AWP									
MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation	
11738.2	21.50	357.97	11656.5	-424.2	-774.1	-41.2	1045.2	FTP @ 11738.2 MD / 11656.5 TVD	
16933.0	89.71	344.58	11905.2	4435.0	-2189.7	4946.1	6121.0	FINAL SURVEY @ 16933 MD / 11905.2 TVD	
16956.8	89.71	344.58	11905.3	4457.9	-2196.1	4969.4	6144.8	LTP @ 16956.8 MD / 11905.3 TVD	
16993.0	89.71	344.58	11905.5	4492.8	-2205.7	5005.0	6181.0	PTB @ 16993 MD / 11905.5 TVD	





Directional Survey Report

Company: **ConocoPhillips Company**
 Well: **UL 20 Gold Spoon #2904H**
 County: **Loving**
 State: **Texas**
 Field: **Phantom (Wolfcamp)**
 API: **42301360720000**
 Rig: **Nabors X04**
 Service Co: **Gordon Technologies LLC**
 Job #: **GT230768**
 Survey Calc: **Minimum Curvature**

Well Surface Location
 Latitude: **31.674953**
 Longitude: **-103.329008**
 Reference: **NAD 1927**
 Y (Northing): **742950.67**
 X (Easting): **1068169.58**
 Field Engr: **Michael Barrett**
Carrey Frith

Report Date: **Jun 02 2023**
 Time: **10:06**
 Mag Reference: **Grid North**
 Mag Correction: **8.14**
 Vert Sect. Azi: **333.95**
 Perm Datum: **Mean Sea Level**
 Depth Ref: **Rotary Table**
 RKB Height: **32**
 GL Elev: **2776.8**

Survey Tie In	MD	Inc	Azimuth	TVD	VS	Rectangular Offsets		Course		Temp	Closure		Source
						NS	EW	Length	DLS		Distance	Azimuth	
1	100.00	0.78	343.84	100.00	0.67	0.65	-0.19	100.00	0.78	0.00	0.68	343.84	Gyro Surveys
2	125.00	0.76	344.27	124.99	1.00	0.98	-0.28	25.00	0.08	0.00	1.02	343.91	Gyro Surveys
3	150.00	0.79	342.23	149.99	1.33	1.30	-0.38	25.00	0.16	0.00	1.35	343.74	Gyro Surveys
4	175.00	0.90	337.88	174.99	1.70	1.65	-0.51	25.00	0.51	0.00	1.72	342.92	Gyro Surveys
5	200.00	0.84	340.66	199.99	2.08	2.00	-0.64	25.00	0.29	0.00	2.10	342.25	Gyro Surveys
6	225.00	0.84	337.10	224.98	2.44	2.34	-0.77	25.00	0.21	0.00	2.47	341.75	Gyro Surveys
7	250.00	0.86	340.58	249.98	2.81	2.69	-0.91	25.00	0.22	0.00	2.84	341.38	Gyro Surveys
8	275.00	0.78	340.45	274.98	3.17	3.03	-1.03	25.00	0.32	0.00	3.20	341.28	Gyro Surveys
9	300.00	0.85	325.06	299.98	3.52	3.34	-1.19	25.00	0.92	0.00	3.54	340.40	Gyro Surveys
10	325.00	0.67	315.49	324.97	3.84	3.59	-1.40	25.00	0.88	0.00	3.86	338.76	Gyro Surveys
11	350.00	0.70	304.60	349.97	4.11	3.79	-1.63	25.00	0.53	0.00	4.12	336.76	Gyro Surveys
12	375.00	0.60	300.58	374.97	4.36	3.94	-1.86	25.00	0.44	0.00	4.36	334.68	Gyro Surveys
13	400.00	0.59	288.97	399.97	4.56	4.05	-2.10	25.00	0.48	0.00	4.56	332.60	Gyro Surveys
14	425.00	0.69	275.20	424.97	4.73	4.10	-2.37	25.00	0.73	0.00	4.74	329.99	Gyro Surveys
15	450.00	0.73	267.22	449.97	4.87	4.11	-2.68	25.00	0.43	0.00	4.90	326.90	Gyro Surveys
16	475.00	0.69	272.97	474.96	5.00	4.11	-2.99	25.00	0.33	0.00	5.08	323.97	Gyro Surveys
17	500.00	0.69	271.15	499.96	5.15	4.12	-3.29	25.00	0.09	0.00	5.27	321.40	Gyro Surveys
18	525.00	0.74	269.34	524.96	5.28	4.12	-3.60	25.00	0.22	0.00	5.47	318.85	Gyro Surveys
19	550.00	0.81	268.81	549.96	5.43	4.12	-3.94	25.00	0.28	0.00	5.70	316.25	Gyro Surveys
20	575.00	0.64	271.77	574.96	5.57	4.12	-4.26	25.00	0.70	0.00	5.92	314.05	Gyro Surveys
21	600.00	0.75	271.39	599.95	5.71	4.12	-4.56	25.00	0.44	0.00	6.15	312.14	Gyro Surveys
22	625.00	0.79	271.39	624.95	5.86	4.13	-4.89	25.00	0.16	0.00	6.41	310.18	Gyro Surveys
23	650.00	0.86	252.23	649.95	5.97	4.08	-5.25	25.00	1.13	0.00	6.64	307.87	Gyro Surveys
24	675.00	0.81	242.56	674.95	5.99	3.94	-5.58	25.00	0.60	0.00	6.83	305.23	Gyro Surveys
25	700.00	0.81	246.72	699.94	6.00	3.79	-5.90	25.00	0.24	0.00	7.01	302.71	Gyro Surveys
26	725.00	0.75	236.94	724.94	5.98	3.63	-6.20	25.00	0.58	0.00	7.18	300.35	Gyro Surveys
27	750.00	0.88	237.66	749.94	5.94	3.44	-6.50	25.00	0.52	0.00	7.35	297.88	Gyro Surveys
28	775.00	0.89	239.42	774.94	5.91	3.24	-6.83	25.00	0.12	0.00	7.56	295.36	Gyro Surveys
29	800.00	1.03	232.58	799.93	5.85	3.00	-7.17	25.00	0.72	0.00	7.78	292.70	Gyro Surveys
30	825.00	0.90	234.86	824.93	5.77	2.75	-7.51	25.00	0.54	0.00	8.00	290.12	Gyro Surveys
31	850.00	0.93	240.33	849.93	5.73	2.54	-7.85	25.00	0.37	0.00	8.25	287.92	Gyro Surveys
32	875.00	0.95	238.37	874.92	5.69	2.33	-8.20	25.00	0.15	0.00	8.53	285.85	Gyro Surveys
33	900.00	0.94	237.48	899.92	5.65	2.11	-8.55	25.00	0.07	0.00	8.81	283.86	Gyro Surveys
34	925.00	0.87	236.16	924.92	5.60	1.89	-8.88	25.00	0.29	0.00	9.08	282.04	Gyro Surveys
35	950.00	0.97	238.51	949.91	5.56	1.68	-9.22	25.00	0.43	0.00	9.37	280.32	Gyro Surveys
36	975.00	1.24	245.21	974.91	5.54	1.45	-9.65	25.00	1.20	0.00	9.76	278.57	Gyro Surveys
37	1000.00	1.23	240.22	999.90	5.53	1.21	-10.12	25.00	0.43	0.00	10.20	276.80	Gyro Surveys
38	1025.00	1.18	240.42	1024.90	5.50	0.95	-10.58	25.00	0.20	0.00	10.62	275.12	Gyro Surveys
39	1050.00	1.17	243.42	1049.89	5.48	0.71	-11.03	25.00	0.25	0.00	11.06	273.66	Gyro Surveys
40	1075.00	1.33	245.59	1074.89	5.49	0.47	-11.53	25.00	0.67	0.00	11.54	272.34	Gyro Surveys
41	1100.00	1.27	242.56	1099.88	5.49	0.22	-12.04	25.00	0.36	0.00	12.04	271.07	Gyro Surveys
42	1125.00	1.24	234.54	1124.87	5.44	-0.06	-12.50	25.00	0.71	0.00	12.50	269.72	Gyro Surveys
43	1150.00	1.17	241.89	1149.87	5.38	-0.34	-12.95	25.00	0.68	0.00	12.95	268.51	Gyro Surveys
44	1175.00	1.21	243.14	1174.86	5.37	-0.58	-13.41	25.00	0.19	0.00	13.42	267.54	Gyro Surveys
45	1200.00	1.24	244.81	1199.86	5.37	-0.81	-13.89	25.00	0.19	0.00	13.91	266.66	Gyro Surveys
46	1225.00	1.32	243.21	1224.85	5.37	-1.06	-14.39	25.00	0.35	0.00	14.43	265.80	Gyro Surveys
47	1250.00	1.24	241.47	1249.84	5.36	-1.32	-14.89	25.00	0.36	0.00	14.94	264.95	Gyro Surveys
48	1275.00	1.33	243.91	1274.84	5.34	-1.57	-15.38	25.00	0.42	0.00	15.46	264.17	Gyro Surveys
49	1300.00	1.54	245.90	1299.83	5.35	-1.84	-15.95	25.00	0.86	0.00	16.06	263.43	Gyro Surveys
50	1325.00	2.62	248.79	1324.81	5.41	-2.18	-16.79	25.00	4.34	0.00	16.93	262.60	Gyro Surveys
51	1350.00	4.09	247.24	1349.77	5.51	-2.73	-18.15	25.00	5.89	0.00	18.35	261.44	Gyro Surveys
52	1375.00	4.94	248.53	1374.69	5.65	-3.47	-19.97	25.00	3.42	0.00	20.27	260.14	Gyro Surveys
53	1400.00	5.27	249.34	1399.59	5.84	-4.27	-22.04	25.00	1.35	0.00	22.45	259.04	Gyro Surveys

54	1425.00	5.40	248.87	1424.48	6.05	-5.10	-24.22	25.00	0.55	0.00	24.75	258.11	Gyro Surveys
55	1450.00	5.42	248.79	1449.37	6.25	-5.95	-26.41	25.00	0.09	0.00	27.08	257.30	Gyro Surveys
56	1475.00	5.64	248.66	1474.26	6.45	-6.82	-28.66	25.00	0.88	0.00	29.46	256.61	Gyro Surveys
57	1500.00	6.02	248.37	1499.13	6.66	-7.76	-31.02	25.00	1.52	0.00	31.98	255.96	Gyro Surveys
58	1525.00	7.80	249.93	1523.94	6.93	-8.82	-33.83	25.00	7.16	0.00	34.97	255.39	Gyro Surveys
59	1550.00	8.77	250.52	1548.68	7.33	-10.04	-37.22	25.00	3.89	0.00	38.55	254.91	Gyro Surveys
60	1575.00	9.46	250.29	1573.37	7.77	-11.37	-40.96	25.00	2.76	0.00	42.50	254.49	Gyro Surveys
61	1600.00	9.61	250.69	1598.02	8.25	-12.75	-44.86	25.00	0.66	0.00	46.64	254.13	Gyro Surveys
62	1625.00	9.69	250.42	1622.67	8.73	-14.14	-48.81	25.00	0.37	0.00	50.82	253.84	Gyro Surveys
63	1650.00	9.74	250.54	1647.31	9.21	-15.55	-52.79	25.00	0.22	0.00	55.03	253.58	Gyro Surveys
64	1675.00	9.72	249.69	1671.95	9.66	-16.99	-56.76	25.00	0.58	0.00	59.25	253.33	Gyro Surveys
65	1700.00	9.67	251.03	1696.59	10.13	-18.41	-60.73	25.00	0.92	0.00	63.45	253.14	Gyro Surveys
66	1725.00	9.74	250.14	1721.24	10.62	-19.81	-64.70	25.00	0.66	0.00	67.66	252.98	Gyro Surveys
67	1750.00	9.78	250.77	1745.87	11.10	-21.23	-68.69	25.00	0.46	0.00	71.90	252.83	Gyro Surveys
68	1775.00	9.76	250.76	1770.51	11.60	-22.62	-72.70	25.00	0.08	0.00	76.14	252.71	Gyro Surveys
69	1800.00	9.74	250.89	1795.15	12.11	-24.01	-76.70	25.00	0.12	0.00	80.37	252.62	Gyro Surveys
70	1825.00	9.67	250.63	1819.79	12.61	-25.40	-80.68	25.00	0.33	0.00	84.58	252.52	Gyro Surveys
71	1850.00	9.69	250.51	1844.44	13.09	-26.80	-84.64	25.00	0.11	0.00	88.78	252.43	Gyro Surveys
72	1875.00	9.71	250.84	1869.08	13.59	-28.19	-88.62	25.00	0.24	0.00	92.99	252.35	Gyro Surveys
73	1900.00	9.60	250.51	1893.72	14.08	-29.58	-92.57	25.00	0.49	0.00	97.18	252.28	Gyro Surveys
74	1925.00	9.57	251.02	1918.38	14.57	-30.95	-96.50	25.00	0.36	0.00	101.35	252.22	Gyro Surveys
75	1950.00	9.51	250.95	1943.03	15.08	-32.30	-100.42	25.00	0.24	0.00	105.49	252.17	Gyro Surveys
76	1975.00	9.54	251.29	1967.69	15.59	-33.64	-104.33	25.00	0.26	0.00	109.62	252.13	Gyro Surveys
77	2000.00	9.58	251.07	1992.34	16.12	-34.98	-108.26	25.00	0.22	0.00	113.78	252.09	Gyro Surveys
78	2025.00	9.57	251.38	2016.99	16.64	-36.32	-112.20	25.00	0.21	0.00	117.93	252.06	Gyro Surveys
79	2050.00	9.57	251.73	2041.64	17.19	-37.63	-116.14	25.00	0.23	0.00	122.09	252.05	Gyro Surveys
80	2075.00	9.51	251.72	2066.30	17.75	-38.93	-120.08	25.00	0.24	0.00	126.23	252.04	Gyro Surveys
81	2100.00	9.39	251.84	2090.96	18.31	-40.22	-123.98	25.00	0.49	0.00	130.34	252.03	Gyro Surveys
82	2125.00	9.55	251.90	2115.62	18.88	-41.50	-127.89	25.00	0.64	0.00	134.45	252.02	Gyro Surveys
83	2150.00	9.38	251.89	2140.28	19.45	-42.78	-131.79	25.00	0.68	0.00	138.56	252.02	Gyro Surveys
84	2175.00	9.37	251.37	2164.94	19.99	-44.06	-135.66	25.00	0.34	0.00	142.63	252.01	Gyro Surveys
85	2200.00	9.36	252.08	2189.61	20.54	-45.33	-139.52	25.00	0.46	0.00	146.70	252.00	Gyro Surveys
86	2225.00	9.33	251.70	2214.28	21.10	-46.60	-143.38	25.00	0.27	0.00	150.76	252.00	Gyro Surveys
87	2250.00	9.39	251.84	2238.94	21.66	-47.87	-147.24	25.00	0.26	0.00	154.83	251.99	Gyro Surveys
88	2275.00	9.42	252.00	2263.61	22.22	-49.14	-151.13	25.00	0.16	0.00	158.91	251.99	Gyro Surveys
89	2300.00	9.62	250.00	2288.26	22.73	-50.48	-155.03	25.00	1.55	0.00	163.05	251.96	Gyro Surveys
90	2325.00	10.01	245.26	2312.90	23.00	-52.11	-158.97	25.00	3.59	0.00	167.29	251.85	Gyro Surveys
91	2350.00	10.26	244.04	2337.51	23.05	-53.99	-162.95	25.00	1.32	0.00	171.66	251.67	Gyro Surveys
92	2375.00	10.27	243.64	2362.11	23.04	-55.95	-166.94	25.00	0.29	0.00	176.07	251.47	Gyro Surveys
93	2400.00	10.31	243.52	2386.71	23.02	-57.94	-170.94	25.00	0.18	0.00	180.50	251.28	Gyro Surveys
94	2425.00	10.34	243.59	2411.30	22.99	-59.94	-174.96	25.00	0.13	0.00	184.94	251.09	Gyro Surveys
95	2450.00	10.27	243.31	2435.90	22.95	-61.94	-178.96	25.00	0.34	0.00	189.37	250.91	Gyro Surveys
96	2475.00	10.15	243.31	2460.50	22.90	-63.93	-182.92	25.00	0.48	0.00	193.76	250.74	Gyro Surveys
97	2500.00	10.13	243.51	2485.11	22.86	-65.90	-186.85	25.00	0.16	0.00	198.13	250.57	Gyro Surveys
98	2525.00	10.19	243.50	2509.72	22.82	-67.86	-190.80	25.00	0.24	0.00	202.51	250.42	Gyro Surveys
99	2550.00	10.15	243.44	2534.33	22.78	-69.84	-194.75	25.00	0.17	0.00	206.89	250.27	Gyro Surveys
100	2575.00	10.06	243.48	2558.94	22.75	-71.80	-198.67	25.00	0.36	0.00	211.25	250.13	Gyro Surveys
101	2600.00	10.04	243.62	2583.56	22.72	-73.74	-202.58	25.00	0.13	0.00	215.58	250.00	Gyro Surveys
102	2625.00	10.04	243.00	2608.17	22.67	-75.70	-206.47	25.00	0.43	0.00	219.91	249.87	Gyro Surveys
103	2650.00	9.94	244.19	2632.79	22.64	-77.62	-210.36	25.00	0.92	0.00	224.22	249.75	Gyro Surveys
104	2675.00	10.02	243.85	2657.42	22.65	-79.52	-214.25	25.00	0.40	0.00	228.53	249.64	Gyro Surveys
105	2700.00	9.79	244.41	2682.04	22.66	-81.40	-218.12	25.00	1.00	0.00	232.81	249.54	Gyro Surveys
106	2725.00	9.75	244.25	2706.68	22.69	-83.24	-221.94	25.00	0.19	0.00	237.04	249.44	Gyro Surveys
107	2750.00	9.61	244.33	2731.32	22.71	-85.06	-225.73	25.00	0.56	0.00	241.23	249.35	Gyro Surveys
108	2775.00	9.56	244.30	2755.98	22.74	-86.86	-229.48	25.00	0.20	0.00	245.37	249.27	Gyro Surveys
109	2800.00	9.54	244.48	2780.63	22.77	-88.66	-233.22	25.00	0.14	0.00	249.51	249.19	Gyro Surveys
110	2825.00	9.54	244.33	2805.28	22.80	-90.45	-236.96	25.00	0.10	0.00	253.63	249.11	Gyro Surveys
111	2850.00	9.42	244.08	2829.94	22.82	-92.24	-240.67	25.00	0.51	0.00	257.74	249.03	Gyro Surveys
112	2875.00	9.29	243.91	2854.61	22.82	-94.02	-244.32	25.00	0.53	0.00	261.79	248.95	Gyro Surveys
113	2900.00	9.34	243.02	2879.28	22.79	-95.83	-247.94	25.00	0.61	0.00	265.81	248.87	Gyro Surveys
114	2925.00	9.34	242.97	2903.95	22.72	-97.67	-251.55	25.00	0.03	0.00	269.85	248.78	Gyro Surveys
115	2950.00	9.44	241.35	2928.61	22.59	-99.58	-255.16	25.00	1.13	0.00	273.90	248.68	Gyro Surveys
116	2975.00	10.29	235.56	2953.24	22.18	-101.82	-258.80	25.00	5.22	0.00	278.11	248.52	Gyro Surveys
117	3000.00	10.49	232.45	2977.83	21.40	-104.47	-262.45	25.00	2.38	0.00	282.48	248.29	Gyro Surveys
118	3025.00	10.40	233.41	3002.42	20.53	-107.20	-266.06	25.00	0.78	0.00	286.85	248.05	Gyro Surveys
119	3050.00	10.46	233.68	3027.01	19.71	-109.89	-269.70	25.00	0.31	0.00	291.23	247.83	Gyro Surveys
120	3075.00	10.49	233.59	3051.59	18.90	-112.59	-273.36	25.00	0.14	0.00	295.64	247.62	Gyro Surveys
121	3100.00	10.37	233.46	3076.18	18.08	-115.28	-277.00	25.00	0.49	0.00	300.03	247.40	Gyro Surveys
122	3125.00	10.41	232.99	3100.77	17.24	-117.98	-280.61	25.00	0.37	0.00	304.41	247.20	Gyro Surveys
123	3150.00	10.12	234.04	3125.37	16.43	-120.63	-284.20	25.00	1.38	0.00	308.74	247.00	Gyro Surveys
124	3175.00	10.17	233.19	3149.98	15.64	-123.24	-287.74	25.00	0.63	0.00	313.02	246.81	Gyro Surveys
125	3200.00	10.18	234.16	3174.58	14.86	-125.86	-291.30	25.00	0.69	0.00	317.32	246.63	Gyro Surveys
126	3225.00	10.10	234.16	3199.19	14.11	-128.43	-294.87	25.00	0.32	0.00	321.62	246.46	Gyro Surveys
127	3250.00	10.11	234.03	3223.80	13.36	-131.00	-298.42	25.00	0.10	0.00	325.91	246.30	Gyro Surveys

128	3275.00	10.24	233.78	3248.41	12.59	-133.61	-301.99	25.00	0.55	0.00	330.22	246.13	Gyro Surveys
129	3300.00	10.20	234.03	3273.01	11.81	-136.22	-305.57	25.00	0.24	0.00	334.56	245.97	Gyro Surveys
130	3325.00	10.46	236.30	3297.61	11.13	-138.78	-309.25	25.00	1.93	0.00	338.96	245.83	Gyro Surveys
131	3350.00	10.87	239.28	3322.18	10.63	-141.24	-313.17	25.00	2.75	0.00	343.54	245.72	Gyro Surveys
132	3375.00	10.93	240.59	3346.73	10.30	-143.61	-317.26	25.00	1.02	0.00	348.25	245.65	Gyro Surveys
133	3400.00	11.12	240.44	3371.27	10.02	-145.96	-321.42	25.00	0.77	0.00	353.01	245.58	Gyro Surveys
134	3425.00	11.12	241.48	3395.80	9.77	-148.30	-325.63	25.00	0.80	0.00	357.82	245.51	Gyro Surveys
135	3450.00	11.15	240.89	3420.33	9.53	-150.63	-329.86	25.00	0.47	0.00	362.63	245.46	Gyro Surveys
136	3475.00	11.11	241.51	3444.86	9.30	-152.96	-334.09	25.00	0.50	0.00	367.44	245.40	Gyro Surveys
137	3500.00	11.05	240.19	3469.39	9.04	-155.30	-338.29	25.00	1.04	0.00	372.23	245.34	Gyro Surveys
138	3525.00	11.07	241.59	3493.92	8.79	-157.63	-342.48	25.00	1.08	0.00	377.01	245.29	Gyro Surveys
139	3550.00	10.90	242.15	3518.47	8.61	-159.88	-346.68	25.00	0.80	0.00	381.77	245.24	Gyro Surveys
140	3575.00	10.63	242.22	3543.03	8.47	-162.05	-350.81	25.00	1.08	0.00	386.43	245.21	Gyro Surveys
141	3600.00	10.35	242.59	3567.61	8.35	-164.16	-354.84	25.00	1.15	0.00	390.98	245.17	Gyro Surveys
142	3625.00	9.94	242.91	3592.22	8.25	-166.18	-358.76	25.00	1.66	0.00	395.38	245.15	Gyro Surveys
143	3650.00	9.58	243.34	3616.86	8.19	-168.10	-362.54	25.00	1.47	0.00	399.61	245.12	Gyro Surveys
144	3675.00	9.45	242.86	3641.51	8.13	-169.96	-366.22	25.00	0.61	0.00	403.74	245.10	Gyro Surveys
145	3700.00	9.04	242.85	3666.19	8.05	-171.80	-369.80	25.00	1.64	0.00	407.76	245.08	Gyro Surveys
146	3725.00	8.96	242.42	3690.88	7.96	-173.59	-373.27	25.00	0.42	0.00	411.66	245.06	Gyro Surveys
147	3750.00	9.00	242.08	3715.57	7.85	-175.41	-376.72	25.00	0.27	0.00	415.56	245.03	Gyro Surveys
148	3775.00	9.25	239.11	3740.26	7.62	-177.36	-380.18	25.00	2.13	0.00	419.51	244.99	Gyro Surveys
149	3800.00	9.89	235.02	3764.91	7.11	-179.62	-383.66	25.00	3.73	0.00	423.63	244.91	Gyro Surveys
150	3825.00	9.97	234.38	3789.53	6.42	-182.11	-387.18	25.00	0.55	0.00	427.87	244.81	Gyro Surveys
151	3850.00	9.91	234.03	3814.16	5.69	-184.64	-390.68	25.00	0.34	0.00	432.11	244.70	Gyro Surveys
152	3875.00	9.59	232.95	3838.80	4.92	-187.15	-394.08	25.00	1.47	0.00	436.27	244.60	Gyro Surveys
153	3900.00	9.62	232.30	3863.45	4.10	-189.69	-397.40	25.00	0.45	0.00	440.35	244.48	Gyro Surveys
154	3925.00	9.44	232.40	3888.10	3.27	-192.22	-400.67	25.00	0.72	0.00	444.39	244.37	Gyro Surveys
155	3950.00	9.54	231.68	3912.76	2.42	-194.75	-403.92	25.00	0.62	0.00	448.42	244.26	Gyro Surveys
156	3975.00	10.22	232.65	3937.39	1.54	-197.38	-407.31	25.00	2.80	0.00	452.62	244.15	Gyro Surveys
157	4000.00	11.18	232.28	3961.95	0.62	-200.21	-410.99	25.00	3.85	0.00	457.16	244.03	Gyro Surveys
158	4025.00	11.21	233.87	3986.48	-0.30	-203.12	-414.87	25.00	1.24	0.00	461.93	243.91	Gyro Surveys
159	4050.00	11.22	233.90	4011.00	-1.15	-205.99	-418.80	25.00	0.05	0.00	466.72	243.81	Gyro Surveys
160	4075.00	11.13	233.98	4035.53	-1.99	-208.84	-422.72	25.00	0.37	0.00	471.49	243.71	Gyro Surveys
161	4100.00	10.93	233.03	4060.07	-2.85	-211.69	-426.56	25.00	1.08	0.00	476.20	243.61	Gyro Surveys
162	4125.00	10.65	232.08	4084.62	-3.78	-214.53	-430.28	25.00	1.33	0.00	480.79	243.50	Gyro Surveys
163	4150.00	10.36	231.81	4109.20	-4.73	-217.34	-433.87	25.00	1.18	0.00	485.26	243.39	Gyro Surveys
164	4175.00	10.10	231.47	4133.81	-5.67	-220.10	-437.35	25.00	1.07	0.00	489.61	243.29	Gyro Surveys
165	4200.00	9.68	231.08	4158.44	-6.62	-222.78	-440.70	25.00	1.70	0.00	493.81	243.18	Gyro Surveys
166	4225.00	9.60	230.75	4183.08	-7.56	-225.42	-443.95	25.00	0.39	0.00	497.90	243.08	Gyro Surveys
167	4250.00	9.18	230.16	4207.75	-8.51	-228.02	-447.09	25.00	1.72	0.00	501.88	242.98	Gyro Surveys
168	4275.00	8.93	229.94	4232.44	-9.46	-230.55	-450.11	25.00	1.01	0.00	505.72	242.88	Gyro Surveys
169	4300.00	8.86	229.94	4257.14	-10.39	-233.03	-453.07	25.00	0.28	0.00	509.49	242.78	Gyro Surveys
170	4325.00	8.77	230.25	4281.84	-11.31	-235.49	-456.01	25.00	0.41	0.00	513.22	242.69	Gyro Surveys
171	4350.00	8.61	230.37	4306.55	-12.20	-237.90	-458.91	25.00	0.64	0.00	516.91	242.60	Gyro Surveys
172	4375.00	8.68	230.18	4331.27	-13.09	-240.30	-461.81	25.00	0.30	0.00	520.59	242.51	Gyro Surveys
173	4400.00	8.74	230.53	4355.98	-13.98	-242.72	-464.72	25.00	0.32	0.00	524.29	242.42	Gyro Surveys
174	4425.00	10.07	236.37	4380.64	-14.71	-245.14	-468.01	25.00	6.54	0.00	528.32	242.35	Gyro Surveys
175	4450.00	11.46	240.16	4405.20	-15.16	-247.58	-471.98	25.00	6.24	0.00	532.98	242.32	Gyro Surveys
176	4475.00	11.67	241.35	4429.70	-15.44	-250.03	-476.35	25.00	1.27	0.00	537.99	242.31	Gyro Surveys
177	4500.00	11.72	240.65	4454.18	-15.70	-252.49	-480.79	25.00	0.60	0.00	543.05	242.29	Gyro Surveys
178	4525.00	11.65	241.44	4478.66	-15.96	-254.94	-485.22	25.00	0.70	0.00	548.11	242.28	Gyro Surveys
179	4550.00	11.48	241.65	4503.15	-16.17	-257.33	-489.62	25.00	0.70	0.00	553.13	242.28	Gyro Surveys
180	4575.00	11.29	242.07	4527.66	-16.35	-259.66	-493.97	25.00	0.83	0.00	558.06	242.27	Gyro Surveys
181	4600.00	10.94	241.89	4552.19	-16.51	-261.92	-498.23	25.00	1.41	0.00	562.88	242.27	Gyro Surveys
182	4625.00	10.43	242.02	4576.76	-16.67	-264.10	-502.32	25.00	2.04	0.00	567.52	242.27	Gyro Surveys
183	4650.00	10.22	242.51	4601.35	-16.81	-266.19	-506.29	25.00	0.91	0.00	572.00	242.27	Gyro Surveys
184	4675.00	9.99	241.70	4625.97	-16.95	-268.24	-510.16	25.00	1.08	0.00	576.38	242.27	Gyro Surveys
185	4700.00	9.62	244.85	4650.60	-17.00	-270.15	-513.96	25.00	2.61	0.00	580.64	242.27	Gyro Surveys
186	4725.00	9.38	246.19	4675.26	-16.89	-271.86	-517.72	25.00	1.31	0.00	584.76	242.30	Gyro Surveys
187	4750.00	9.14	248.41	4699.93	-16.65	-273.42	-521.43	25.00	1.72	0.00	588.76	242.33	Gyro Surveys
188	4775.00	9.06	248.00	4724.62	-16.36	-274.88	-525.10	25.00	0.41	0.00	592.70	242.37	Gyro Surveys
189	4800.00	8.82	249.39	4749.31	-16.04	-276.30	-528.72	25.00	1.29	0.00	596.56	242.41	Gyro Surveys
190	4825.00	8.33	248.41	4774.03	-15.72	-277.64	-532.20	25.00	2.05	0.00	600.26	242.45	Gyro Surveys
191	4850.00	8.15	248.41	4798.78	-15.44	-278.96	-535.53	25.00	0.72	0.00	603.83	242.49	Gyro Surveys
192	4875.00	7.95	247.86	4823.53	-15.18	-280.26	-538.78	25.00	0.86	0.00	607.31	242.52	Gyro Surveys
193	4900.00	7.71	246.42	4848.30	-14.99	-281.58	-541.91	25.00	1.24	0.00	610.70	242.54	Gyro Surveys
194	4925.00	7.65	246.93	4873.07	-14.83	-282.90	-544.98	25.00	0.36	0.00	614.04	242.57	Gyro Surveys
195	4950.00	7.66	246.50	4897.85	-14.67	-284.22	-548.04	25.00	0.23	0.00	617.36	242.59	Gyro Surveys
196	4975.00	8.13	247.36	4922.61	-14.49	-285.57	-551.20	25.00	1.94	0.00	620.78	242.61	Gyro Surveys
197	5000.00	8.80	248.99	4947.34	-14.22	-286.93	-554.62	25.00	2.85	0.00	624.44	242.65	Gyro Surveys
198	5025.00	9.00	250.19	4972.04	-13.84	-288.28	-558.24	25.00	1.09	0.00	628.28	242.69	Gyro Surveys
199	5050.00	9.31	250.32	4996.72	-13.40	-289.62	-561.99	25.00	1.24	0.00	632.23	242.74	Gyro Surveys
200	5075.00	10.44	252.03	5021.35	-12.86	-291.00	-566.05	25.00	4.67	0.00	636.47	242.79	Gyro Surveys
201	5100.00	12.02	253.23	5045.87	-12.12	-292.45	-570.69	25.00	6.39	0.00	641.26	242.87	Gyro Surveys

202	5125.00	12.90	254.19	5070.28	-11.21	-293.97	-575.87	25.00	3.62	0.00	646.56	242.96	Gyro Surveys
203	5150.00	12.92	254.37	5094.65	-10.20	-295.48	-581.25	25.00	0.18	0.00	652.04	243.05	Gyro Surveys
204	5175.00	12.85	254.40	5119.02	-9.19	-296.98	-586.62	25.00	0.28	0.00	657.51	243.15	Gyro Surveys
205	5200.00	12.23	254.23	5143.42	-8.22	-298.45	-591.84	25.00	2.48	0.00	662.83	243.24	Gyro Surveys
206	5225.00	11.82	253.45	5167.87	-7.32	-299.90	-596.84	25.00	1.76	0.00	667.95	243.32	Gyro Surveys
207	5250.00	11.65	253.58	5192.35	-6.48	-301.34	-601.72	25.00	0.69	0.00	672.96	243.40	Gyro Surveys
208	5275.00	11.64	253.66	5216.84	-5.63	-302.76	-606.56	25.00	0.08	0.00	677.92	243.47	Gyro Surveys
209	5300.00	11.51	253.76	5241.33	-4.78	-304.17	-611.38	25.00	0.53	0.00	682.86	243.55	Gyro Surveys
210	5325.00	11.52	253.54	5265.83	-3.94	-305.57	-616.17	25.00	0.18	0.00	687.78	243.62	Gyro Surveys
211	5350.00	11.52	253.13	5290.32	-3.12	-307.01	-620.95	25.00	0.33	0.00	692.70	243.69	Gyro Surveys
212	5375.00	11.41	252.96	5314.82	-2.34	-308.45	-625.70	25.00	0.46	0.00	697.60	243.76	Gyro Surveys
213	5400.00	11.38	252.36	5339.33	-1.59	-309.93	-630.42	25.00	0.49	0.00	702.48	243.82	Gyro Surveys
214	5425.00	11.35	252.34	5363.84	-0.87	-311.42	-635.11	25.00	0.12	0.00	707.35	243.88	Gyro Surveys
215	5450.00	11.35	252.28	5388.35	-0.16	-312.92	-639.80	25.00	0.05	0.00	712.22	243.94	Gyro Surveys
216	5475.00	11.24	252.05	5412.87	0.54	-314.41	-644.46	25.00	0.48	0.00	717.07	243.99	Gyro Surveys
217	5500.00	11.22	251.76	5437.39	1.22	-315.93	-649.09	25.00	0.24	0.00	721.89	244.05	Gyro Surveys
218	5525.00	11.12	251.69	5461.92	1.87	-317.45	-653.69	25.00	0.40	0.00	726.69	244.10	Gyro Surveys
219	5550.00	11.14	251.45	5486.44	2.51	-318.97	-658.26	25.00	0.20	0.00	731.47	244.15	Gyro Surveys
220	5575.00	11.15	251.55	5510.97	3.15	-320.50	-662.85	25.00	0.09	0.00	736.27	244.19	Gyro Surveys
221	5600.00	11.10	251.40	5535.50	3.78	-322.04	-667.42	25.00	0.23	0.00	741.05	244.24	Gyro Surveys
222	5625.00	11.15	251.26	5560.03	4.40	-323.58	-671.99	25.00	0.23	0.00	745.84	244.29	Gyro Surveys
223	5650.00	11.05	250.85	5584.57	4.99	-325.14	-676.54	25.00	0.51	0.00	750.62	244.33	Gyro Surveys
224	5675.00	10.97	250.45	5609.11	5.55	-326.73	-681.05	25.00	0.44	0.00	755.36	244.37	Gyro Surveys
225	5700.00	10.94	250.38	5633.65	6.09	-328.32	-685.52	25.00	0.13	0.00	760.09	244.41	Gyro Surveys
226	5725.00	10.80	249.47	5658.20	6.58	-329.94	-689.95	25.00	0.89	0.00	764.78	244.44	Gyro Surveys
227	5750.00	10.59	250.50	5682.77	7.06	-331.52	-694.31	25.00	1.14	0.00	769.40	244.48	Gyro Surveys
228	5775.00	10.53	249.89	5707.34	7.56	-333.08	-698.62	25.00	0.51	0.00	773.96	244.51	Gyro Surveys
229	5800.00	10.18	249.24	5731.94	8.00	-334.65	-702.83	25.00	1.48	0.00	778.44	244.54	Gyro Surveys
230	5825.00	10.20	248.52	5756.54	8.38	-336.24	-706.96	25.00	0.52	0.00	782.85	244.56	Gyro Surveys
231	5850.00	9.88	248.81	5781.16	8.74	-337.82	-711.02	25.00	1.30	0.00	787.19	244.59	Gyro Surveys
232	5875.00	9.82	248.73	5805.79	9.10	-339.37	-715.00	25.00	0.25	0.00	791.46	244.61	Gyro Surveys
233	5900.00	9.85	248.65	5830.42	9.45	-340.93	-718.98	25.00	0.13	0.00	795.72	244.63	Gyro Surveys
234	5925.00	9.72	248.42	5855.06	9.79	-342.48	-722.94	25.00	0.54	0.00	799.96	244.65	Gyro Surveys
235	5950.00	9.72	247.87	5879.70	10.10	-344.05	-726.85	25.00	0.37	0.00	804.17	244.67	Gyro Surveys
236	5975.00	9.57	247.58	5904.35	10.38	-345.64	-730.73	25.00	0.63	0.00	808.35	244.69	Gyro Surveys
237	6000.00	9.55	246.78	5929.00	10.61	-347.25	-734.56	25.00	0.54	0.00	812.50	244.70	Gyro Surveys
238	6025.00	9.39	247.27	5953.66	10.83	-348.85	-738.34	25.00	0.72	0.00	816.61	244.71	Gyro Surveys
239	6050.00	9.38	246.49	5978.33	11.04	-350.46	-742.09	25.00	0.51	0.00	820.68	244.72	Gyro Surveys
240	6075.00	8.83	246.34	6003.01	11.21	-352.04	-745.72	25.00	2.20	0.00	824.64	244.73	Gyro Surveys
241	6100.00	8.74	246.27	6027.72	11.37	-353.57	-749.22	25.00	0.36	0.00	828.45	244.74	Gyro Surveys
242	6125.00	8.60	245.39	6052.43	11.49	-355.12	-752.65	25.00	0.77	0.00	832.22	244.74	Gyro Surveys
243	6150.00	7.70	239.42	6077.18	11.41	-356.75	-755.79	25.00	4.94	0.00	835.76	244.73	Gyro Surveys
244	6175.00	6.98	233.37	6101.97	11.00	-358.50	-758.46	25.00	4.22	0.00	838.92	244.70	Gyro Surveys
245	6200.00	6.81	231.56	6126.79	10.40	-360.33	-760.84	25.00	1.10	0.00	841.85	244.66	Gyro Surveys
246	6225.00	6.63	230.63	6151.62	9.75	-362.17	-763.11	25.00	0.84	0.00	844.69	244.61	Gyro Surveys
247	6250.00	6.19	221.75	6176.47	8.91	-364.09	-765.13	25.00	4.33	0.00	847.34	244.55	Gyro Surveys
248	6275.00	6.08	215.70	6201.32	7.77	-366.17	-766.80	25.00	2.62	0.00	849.74	244.47	Gyro Surveys
249	6300.00	5.82	212.49	6226.19	6.48	-368.32	-768.25	25.00	1.69	0.00	851.98	244.39	Gyro Surveys
250	6325.00	5.83	211.30	6251.06	5.14	-370.47	-769.59	25.00	0.48	0.00	854.12	244.29	Gyro Surveys
251	6350.00	5.55	202.51	6275.94	3.65	-372.67	-770.71	25.00	3.66	0.00	856.08	244.19	Gyro Surveys
252	6375.00	5.49	198.25	6300.82	1.99	-374.92	-771.55	25.00	1.66	0.00	857.82	244.08	Gyro Surveys
253	6400.00	5.36	195.54	6325.71	0.27	-377.18	-772.24	25.00	1.15	0.00	859.43	243.97	Gyro Surveys
254	6425.00	5.35	194.92	6350.60	-1.49	-379.44	-772.85	25.00	0.23	0.00	860.97	243.85	Gyro Surveys
255	6450.00	5.45	193.66	6375.49	-3.28	-381.72	-773.43	25.00	0.62	0.00	862.50	243.73	Gyro Surveys
256	6475.00	5.23	193.08	6400.38	-5.08	-383.98	-773.97	25.00	0.91	0.00	863.98	243.61	Gyro Surveys
257	6500.00	5.29	189.36	6425.28	-6.90	-386.23	-774.41	25.00	1.38	0.00	865.38	243.49	Gyro Surveys
258	6525.00	4.72	184.33	6450.18	-8.73	-388.39	-774.68	25.00	2.88	0.00	866.59	243.37	Gyro Surveys
259	6550.00	4.63	181.88	6475.10	-10.51	-390.42	-774.79	25.00	0.88	0.00	867.60	243.26	Gyro Surveys
260	6575.00	4.53	178.61	6500.02	-12.30	-392.42	-774.80	25.00	1.12	0.00	868.51	243.14	Gyro Surveys
261	6600.00	4.55	176.69	6524.94	-14.11	-394.40	-774.72	25.00	0.61	0.00	869.33	243.02	Gyro Surveys
262	6625.00	4.35	174.08	6549.86	-15.91	-396.33	-774.56	25.00	1.14	0.00	870.07	242.90	Gyro Surveys
263	6650.00	4.37	175.75	6574.79	-17.69	-398.22	-774.39	25.00	0.51	0.00	870.79	242.79	Gyro Surveys
264	6675.00	4.22	175.25	6599.72	-19.43	-400.09	-774.25	25.00	0.62	0.00	871.51	242.67	Gyro Surveys
265	6700.00	3.29	169.79	6624.67	-20.98	-401.71	-774.04	25.00	3.98	0.00	872.08	242.57	Gyro Surveys
266	6725.00	2.34	161.86	6649.64	-22.17	-402.90	-773.76	25.00	4.10	0.00	872.37	242.49	Gyro Surveys
267	6750.00	1.85	153.94	6674.62	-23.08	-403.75	-773.42	25.00	2.27	0.00	872.46	242.43	Gyro Surveys
268	6775.00	1.40	147.96	6699.61	-23.79	-404.37	-773.08	25.00	1.92	0.00	872.45	242.39	Gyro Surveys
269	6800.00	1.57	145.22	6724.60	-24.43	-404.91	-772.73	25.00	0.74	0.00	872.39	242.35	Gyro Surveys
270	6825.00	1.56	148.27	6749.59	-25.11	-405.48	-772.35	25.00	0.34	0.00	872.32	242.30	Gyro Surveys
271	6850.00	1.53	145.88	6774.58	-25.78	-406.05	-771.98	25.00	0.28	0.00	872.26	242.26	Gyro Surveys
272	6875.00	1.51	147.26	6799.57	-26.43	-406.60	-771.62	25.00	0.17	0.00	872.19	242.21	Gyro Surveys
273	6900.00	1.57	143.77	6824.56	-27.10	-407.15	-771.24	25.00	0.45	0.00	872.11	242.17	Gyro Surveys
274	6925.00	1.57	136.89	6849.56	-27.76	-407.68	-770.80	25.00	0.75	0.00	871.97	242.13	Gyro Surveys
275	6950.00	1.54	144.94	6874.55	-28.42	-408.20	-770.38	25.00	0.88	0.00	871.84	242.08	Gyro Surveys

276	6975.00	1.57	146.55	6899.54	-29.09	-408.77	-769.99	25.00	0.21	0.00	871.77	242.04	Gyro Surveys
277	7000.00	1.50	143.89	6924.53	-29.75	-409.32	-769.61	25.00	0.40	0.00	871.69	241.99	Gyro Surveys
278	7025.00	1.50	144.21	6949.52	-30.40	-409.85	-769.23	25.00	0.03	0.00	871.60	241.95	Gyro Surveys
279	7050.00	1.54	142.61	6974.51	-31.05	-410.38	-768.83	25.00	0.23	0.00	871.50	241.91	Gyro Surveys
280	7075.00	1.50	149.08	6999.50	-31.71	-410.93	-768.46	25.00	0.70	0.00	871.43	241.86	Gyro Surveys
281	7100.00	1.61	149.87	7024.49	-32.38	-411.51	-768.12	25.00	0.45	0.00	871.40	241.82	Gyro Surveys
282	7125.00	1.51	150.06	7049.48	-33.06	-412.10	-767.78	25.00	0.40	0.00	871.38	241.78	Gyro Surveys
283	7150.00	1.52	147.11	7074.47	-33.72	-412.66	-767.43	25.00	0.31	0.00	871.34	241.73	Gyro Surveys
284	7175.00	1.60	147.90	7099.47	-34.40	-413.24	-767.07	25.00	0.33	0.00	871.29	241.69	Gyro Surveys
285	7200.00	1.67	150.07	7124.46	-35.11	-413.85	-766.70	25.00	0.37	0.00	871.26	241.64	Gyro Surveys
286	7225.00	1.50	154.15	7149.45	-35.80	-414.46	-766.37	25.00	0.82	0.00	871.27	241.60	Gyro Surveys
287	7250.00	1.51	150.45	7174.44	-36.45	-415.04	-766.07	25.00	0.39	0.00	871.27	241.55	Gyro Surveys
288	7275.00	1.64	151.69	7199.43	-37.14	-415.64	-765.74	25.00	0.54	0.00	871.27	241.51	Gyro Surveys
289	7300.00	1.58	152.25	7224.42	-37.84	-416.26	-765.41	25.00	0.25	0.00	871.28	241.46	Gyro Surveys
290	7325.00	1.61	146.93	7249.41	-38.53	-416.86	-765.05	25.00	0.60	0.00	871.25	241.42	Gyro Surveys
291	7350.00	1.53	152.32	7274.40	-39.22	-417.45	-764.71	25.00	0.67	0.00	871.23	241.37	Gyro Surveys
292	7375.00	1.68	149.40	7299.39	-39.92	-418.06	-764.37	25.00	0.68	0.00	871.22	241.32	Gyro Surveys
293	7400.00	1.56	151.01	7324.38	-40.62	-418.67	-764.01	25.00	0.51	0.00	871.21	241.28	Gyro Surveys
294	7425.00	1.56	148.84	7349.37	-41.30	-419.26	-763.67	25.00	0.24	0.00	871.19	241.23	Gyro Surveys
295	7450.00	1.51	150.25	7374.36	-41.97	-419.84	-763.33	25.00	0.25	0.00	871.17	241.19	Gyro Surveys
296	7475.00	1.34	152.07	7399.35	-42.59	-420.38	-763.03	25.00	0.70	0.00	871.17	241.15	Gyro Surveys
297	7500.00	1.34	151.59	7424.35	-43.17	-420.90	-762.76	25.00	0.04	0.00	871.18	241.11	Gyro Surveys
298	7525.00	1.28	152.45	7449.34	-43.74	-421.40	-762.49	25.00	0.25	0.00	871.19	241.07	Gyro Surveys
299	7550.00	1.30	152.70	7474.33	-44.31	-421.90	-762.23	25.00	0.08	0.00	871.20	241.03	Gyro Surveys
300	7575.00	1.19	152.47	7499.33	-44.85	-422.39	-761.98	25.00	0.44	0.00	871.22	241.00	Gyro Surveys
301	7600.00	1.25	157.34	7524.32	-45.38	-422.87	-761.76	25.00	0.48	0.00	871.26	240.96	Gyro Surveys
302	7625.00	0.95	162.12	7549.32	-45.86	-423.32	-761.59	25.00	1.25	0.00	871.33	240.93	Gyro Surveys
303	7650.00	0.99	165.80	7574.31	-46.27	-423.72	-761.47	25.00	0.30	0.00	871.42	240.91	Gyro Surveys
304	7675.00	0.96	169.25	7599.31	-46.69	-424.14	-761.38	25.00	0.26	0.00	871.54	240.88	Gyro Surveys
305	7700.00	0.97	167.52	7624.31	-47.10	-424.55	-761.29	25.00	0.12	0.00	871.67	240.85	Gyro Surveys
306	7725.00	1.01	165.16	7649.30	-47.52	-424.97	-761.19	25.00	0.23	0.00	871.79	240.83	Gyro Surveys
307	7750.00	0.95	160.40	7674.30	-47.94	-425.38	-761.06	25.00	0.40	0.00	871.88	240.80	Gyro Surveys
308	7775.00	0.93	161.18	7699.30	-48.35	-425.77	-760.93	25.00	0.09	0.00	871.95	240.77	Gyro Surveys
309	7800.00	0.95	161.23	7724.29	-48.75	-426.15	-760.80	25.00	0.08	0.00	872.02	240.74	Gyro Surveys
310	7825.00	0.86	159.93	7749.29	-49.15	-426.53	-760.67	25.00	0.37	0.00	872.09	240.72	Gyro Surveys
311	7850.00	0.88	159.19	7774.29	-49.52	-426.88	-760.53	25.00	0.09	0.00	872.15	240.69	Gyro Surveys
312	7875.00	0.86	158.31	7799.28	-49.90	-427.24	-760.40	25.00	0.10	0.00	872.20	240.67	Gyro Surveys
313	7900.00	0.91	161.36	7824.28	-50.29	-427.60	-760.26	25.00	0.27	0.00	872.26	240.65	Gyro Surveys
314	7925.00	0.99	165.80	7849.28	-50.69	-428.00	-760.15	25.00	0.43	0.00	872.36	240.62	Gyro Surveys
315	7950.00	0.89	162.92	7874.27	-51.10	-428.39	-760.04	25.00	0.44	0.00	872.45	240.59	Gyro Surveys
316	7975.00	0.88	166.09	7899.27	-51.48	-428.76	-759.93	25.00	0.20	0.00	872.55	240.57	Gyro Surveys
317	8000.00	0.93	164.78	7924.27	-51.86	-429.15	-759.83	25.00	0.22	0.00	872.65	240.54	Gyro Surveys
318	8025.00	0.89	160.04	7949.26	-52.26	-429.52	-759.72	25.00	0.34	0.00	872.73	240.52	Gyro Surveys
319	8050.00	1.01	169.52	7974.26	-52.66	-429.92	-759.61	25.00	0.79	0.00	872.83	240.49	Gyro Surveys
320	8075.00	0.90	167.61	7999.26	-53.06	-430.33	-759.53	25.00	0.46	0.00	872.96	240.47	Gyro Surveys
321	8100.00	0.99	169.38	8024.25	-53.46	-430.74	-759.44	25.00	0.38	0.00	873.09	240.44	Gyro Surveys
322	8125.00	1.06	163.63	8049.25	-53.90	-431.17	-759.34	25.00	0.50	0.00	873.21	240.41	Gyro Surveys
323	8150.00	1.04	172.41	8074.25	-54.34	-431.62	-759.24	25.00	0.65	0.00	873.35	240.38	Gyro Surveys
324	8175.00	0.92	166.83	8099.24	-54.75	-432.04	-759.17	25.00	0.61	0.00	873.49	240.36	Gyro Surveys
325	8200.00	0.91	166.49	8124.24	-55.14	-432.43	-759.08	25.00	0.05	0.00	873.61	240.33	Gyro Surveys
326	8225.00	0.91	167.88	8149.24	-55.53	-432.81	-758.99	25.00	0.09	0.00	873.72	240.31	Gyro Surveys
327	8250.00	0.86	172.22	8174.23	-55.90	-433.19	-758.92	25.00	0.33	0.00	873.85	240.28	Gyro Surveys
328	8275.00	0.95	167.97	8199.23	-56.28	-433.58	-758.85	25.00	0.45	0.00	873.99	240.26	Gyro Surveys
329	8300.00	0.92	168.12	8224.23	-56.68	-433.98	-758.77	25.00	0.12	0.00	874.11	240.23	Gyro Surveys
330	8325.00	0.79	161.22	8249.22	-57.04	-434.34	-758.67	25.00	0.66	0.00	874.20	240.21	Gyro Surveys
331	8350.00	0.84	168.80	8274.22	-57.39	-434.68	-758.58	25.00	0.47	0.00	874.30	240.19	Gyro Surveys
332	8375.00	0.99	165.30	8299.22	-57.78	-435.07	-758.49	25.00	0.64	0.00	874.41	240.16	Gyro Surveys
333	8400.00	0.92	168.09	8324.21	-58.18	-435.48	-758.39	25.00	0.34	0.00	874.53	240.14	Gyro Surveys
334	8425.00	0.95	169.61	8349.21	-58.58	-435.88	-758.32	25.00	0.16	0.00	874.66	240.11	Gyro Surveys
335	8450.00	0.97	172.42	8374.21	-58.98	-436.29	-758.25	25.00	0.20	0.00	874.81	240.08	Gyro Surveys
336	8475.00	0.97	167.61	8399.20	-59.38	-436.71	-758.18	25.00	0.33	0.00	874.95	240.06	Gyro Surveys
337	8500.00	0.94	172.72	8424.20	-59.78	-437.12	-758.11	25.00	0.36	0.00	875.10	240.03	Gyro Surveys
338	8525.00	1.01	172.32	8449.20	-60.19	-437.54	-758.05	25.00	0.28	0.00	875.26	240.01	Gyro Surveys
339	8550.00	1.04	171.61	8474.19	-60.61	-437.98	-757.99	25.00	0.13	0.00	875.43	239.98	Gyro Surveys
340	8575.00	0.98	171.29	8499.19	-61.03	-438.42	-757.92	25.00	0.24	0.00	875.59	239.95	Gyro Surveys
341	8600.00	1.06	162.67	8524.19	-61.47	-438.85	-757.82	25.00	0.69	0.00	875.72	239.93	Gyro Surveys
342	8625.00	1.01	174.41	8549.18	-61.90	-439.29	-757.73	25.00	0.87	0.00	875.86	239.90	Gyro Surveys
343	8650.00	1.20	185.16	8574.18	-62.33	-439.77	-757.73	25.00	1.12	0.00	876.10	239.87	Gyro Surveys
344	8675.00	1.04	184.01	8599.17	-62.75	-440.26	-757.77	25.00	0.65	0.00	876.38	239.84	Gyro Surveys
345	8700.00	0.88	190.05	8624.17	-63.10	-440.67	-757.82	25.00	0.76	0.00	876.63	239.82	Gyro Surveys
346	8725.00	1.00	182.56	8649.16	-63.45	-441.08	-757.86	25.00	0.69	0.00	876.87	239.80	Gyro Surveys
347	8750.00	1.08	172.44	8674.16	-63.86	-441.53	-757.84	25.00	0.80	0.00	877.08	239.77	Gyro Surveys
348	8775.00	1.04	177.41	8699.16	-64.30	-441.99	-757.80	25.00	0.40	0.00	877.28	239.75	Gyro Surveys
349	8800.00	1.10	180.55	8724.15	-64.72	-442.46	-757.79	25.00	0.34	0.00	877.51	239.72	Gyro Surveys

350	8825.00	1.20	187.11	8749.15	-65.15	-442.96	-757.83	25.00	0.66	0.00	877.79	239.69	Gyro Surveys
351	8850.00	1.11	178.39	8774.14	-65.59	-443.46	-757.85	25.00	0.79	0.00	878.07	239.67	Gyro Surveys
352	8875.00	1.22	185.18	8799.14	-66.04	-443.97	-757.87	25.00	0.71	0.00	878.34	239.64	Gyro Surveys
353	8900.00	1.01	184.42	8824.13	-66.46	-444.45	-757.91	25.00	0.84	0.00	878.62	239.61	Gyro Surveys
354	8925.00	1.00	181.01	8849.13	-66.84	-444.89	-757.93	25.00	0.24	0.00	878.86	239.59	Gyro Surveys
355	8950.00	1.13	182.02	8874.12	-67.25	-445.35	-757.95	25.00	0.53	0.00	879.10	239.56	Gyro Surveys
356	8975.00	1.11	183.19	8899.12	-67.68	-445.84	-757.97	25.00	0.12	0.00	879.37	239.54	Gyro Surveys
357	9000.00	1.08	182.87	8924.11	-68.10	-446.32	-757.99	25.00	0.12	0.00	879.63	239.51	Gyro Surveys
358	9025.00	1.08	185.15	8949.11	-68.51	-446.79	-758.03	25.00	0.17	0.00	879.90	239.48	Gyro Surveys
359	9050.00	1.05	187.36	8974.11	-68.90	-447.25	-758.08	25.00	0.20	0.00	880.18	239.46	Gyro Surveys
360	9075.00	1.06	186.23	8999.10	-69.29	-447.71	-758.13	25.00	0.09	0.00	880.46	239.44	Gyro Surveys
361	9100.00	1.12	180.13	9024.10	-69.70	-448.18	-758.16	25.00	0.52	0.00	880.72	239.41	Gyro Surveys
362	9125.00	1.08	184.10	9049.09	-70.13	-448.66	-758.17	25.00	0.34	0.00	880.98	239.38	Gyro Surveys
363	9150.00	1.01	187.03	9074.09	-70.51	-449.11	-758.22	25.00	0.35	0.00	881.25	239.36	Gyro Surveys
364	9175.00	0.25	200.31	9099.09	-70.74	-449.38	-758.26	25.00	3.08	0.00	881.42	239.35	Gyro Surveys
365	9200.00	0.23	20.71	9124.09	-70.74	-449.39	-758.26	25.00	1.92	0.00	881.43	239.35	Gyro Surveys
366	9225.00	0.14	35.05	9149.09	-70.69	-449.32	-758.23	25.00	0.40	0.00	881.36	239.35	Gyro Surveys
367	9250.00	0.07	326.69	9174.09	-70.66	-449.28	-758.22	25.00	0.53	0.00	881.33	239.35	Gyro Surveys
368	9275.00	0.07	201.16	9199.09	-70.66	-449.28	-758.23	25.00	0.50	0.00	881.35	239.35	Gyro Surveys
369	9300.00	0.28	193.48	9224.09	-70.71	-449.35	-758.25	25.00	0.84	0.00	881.40	239.35	Gyro Surveys
370	9325.00	0.36	190.11	9249.09	-70.82	-449.49	-758.28	25.00	0.33	0.00	881.49	239.34	Gyro Surveys
371	9350.00	0.42	205.56	9274.09	-70.94	-449.65	-758.34	25.00	0.48	0.00	881.62	239.33	Gyro Surveys
372	9375.00	0.46	200.55	9299.08	-71.07	-449.83	-758.41	25.00	0.22	0.00	881.78	239.33	Gyro Surveys
373	9400.00	0.37	202.90	9324.08	-71.19	-450.00	-758.48	25.00	0.37	0.00	881.92	239.32	Gyro Surveys
374	9425.00	0.34	120.35	9349.08	-71.31	-450.11	-758.44	25.00	1.88	0.00	881.95	239.31	Gyro Surveys
375	9450.00	0.51	99.36	9374.08	-71.43	-450.16	-758.27	25.00	0.91	0.00	881.83	239.30	Gyro Surveys
376	9475.00	0.51	96.22	9399.08	-71.56	-450.19	-758.05	25.00	0.11	0.00	881.65	239.29	Gyro Surveys
377	9500.00	0.60	95.53	9424.08	-71.68	-450.22	-757.81	25.00	0.36	0.00	881.46	239.29	Gyro Surveys
378	9525.00	0.66	94.82	9449.08	-71.83	-450.24	-757.54	25.00	0.24	0.00	881.24	239.27	Gyro Surveys
379	9550.00	0.52	89.74	9474.08	-71.95	-450.25	-757.28	25.00	0.60	0.00	881.02	239.27	Gyro Surveys
380	9575.00	0.69	104.08	9499.08	-72.10	-450.29	-757.02	25.00	0.91	0.00	880.82	239.25	Gyro Surveys
381	9600.00	0.73	115.75	9524.07	-72.32	-450.40	-756.73	25.00	0.60	0.00	880.62	239.24	Gyro Surveys
382	9625.00	0.87	116.88	9549.07	-72.60	-450.55	-756.42	25.00	0.56	0.00	880.43	239.22	Gyro Surveys
383	9650.00	0.98	112.81	9574.07	-72.91	-450.72	-756.05	25.00	0.51	0.00	880.20	239.20	Gyro Surveys
384	9675.00	1.07	119.78	9599.06	-73.26	-450.92	-755.65	25.00	0.61	0.00	879.96	239.17	Gyro Surveys
385	9700.00	1.02	114.10	9624.06	-73.63	-451.12	-755.25	25.00	0.46	0.00	879.72	239.15	Gyro Surveys
386	9725.00	1.21	122.08	9649.06	-74.02	-451.36	-754.82	25.00	0.98	0.00	879.47	239.12	Gyro Surveys
387	9750.00	1.42	129.47	9674.05	-74.53	-451.69	-754.36	25.00	1.08	0.00	879.25	239.09	Gyro Surveys
388	9775.00	1.74	136.50	9699.04	-75.17	-452.17	-753.86	25.00	1.49	0.00	879.06	239.04	Gyro Surveys
389	9800.00	2.24	142.78	9724.02	-76.01	-452.83	-753.30	25.00	2.18	0.00	878.93	238.99	Gyro Surveys
390	9825.00	2.72	147.49	9749.00	-77.08	-453.72	-752.68	25.00	2.08	0.00	878.86	238.92	Gyro Surveys
391	9850.00	3.16	150.46	9773.97	-78.36	-454.82	-752.03	25.00	1.86	0.00	878.86	238.83	Gyro Surveys
392	9875.00	3.21	155.91	9798.93	-79.75	-456.06	-751.40	25.00	1.23	0.00	878.97	238.74	Gyro Surveys
393	9900.00	2.90	162.03	9823.89	-81.07	-457.30	-750.92	25.00	1.80	0.00	879.20	238.66	Gyro Surveys
394	9925.00	2.88	167.11	9848.86	-82.31	-458.51	-750.58	25.00	1.03	0.00	879.55	238.58	Gyro Surveys
395	9950.00	2.71	170.96	9873.83	-83.49	-459.71	-750.35	25.00	1.01	0.00	879.98	238.51	Gyro Surveys
396	9975.00	2.42	169.04	9898.81	-84.56	-460.81	-750.16	25.00	1.21	0.00	880.39	238.44	Gyro Surveys
397	10000.00	1.61	180.64	9923.79	-85.38	-461.68	-750.06	25.00	3.61	0.00	880.76	238.39	Gyro Surveys
398	10025.00	0.72	221.85	9948.79	-85.76	-462.15	-750.17	25.00	4.68	0.00	881.10	238.36	Gyro Surveys
399	10050.00	0.61	250.24	9973.79	-85.80	-462.31	-750.40	25.00	1.37	0.00	881.38	238.36	Gyro Surveys
400	10075.00	0.22	292.95	9998.78	-85.75	-462.34	-750.57	25.00	1.89	0.00	881.54	238.37	Gyro Surveys
401	10100.00	0.29	21.82	10023.78	-85.67	-462.26	-750.59	25.00	1.44	0.00	881.51	238.37	Gyro Surveys
402	10125.00	0.26	50.46	10048.78	-85.62	-462.16	-750.52	25.00	0.56	0.00	881.41	238.38	Gyro Surveys
403	10150.00	0.18	78.31	10073.78	-85.61	-462.12	-750.44	25.00	0.53	0.00	881.31	238.38	Gyro Surveys
404	10175.00	0.21	141.22	10098.78	-85.67	-462.15	-750.37	25.00	0.82	0.00	881.27	238.37	Gyro Surveys
405	10200.00	0.26	191.53	10123.78	-85.76	-462.24	-750.36	25.00	0.82	0.00	881.30	238.37	Gyro Surveys
406	10225.00	0.45	204.08	10148.78	-85.86	-462.38	-750.41	25.00	0.82	0.00	881.42	238.36	Gyro Surveys
407	10250.00	0.66	209.61	10173.78	-86.01	-462.60	-750.52	25.00	0.87	0.00	881.63	238.35	Gyro Surveys
408	10275.00	0.88	217.98	10198.78	-86.17	-462.87	-750.71	25.00	0.99	0.00	881.94	238.34	Gyro Surveys
409	10300.00	1.01	222.94	10223.78	-86.34	-463.19	-750.98	25.00	0.61	0.00	882.33	238.33	Gyro Surveys
410	10325.00	1.21	225.84	10248.77	-86.50	-463.53	-751.32	25.00	0.83	0.00	882.80	238.33	Gyro Surveys
411	10350.00	1.09	260.71	10273.77	-86.51	-463.75	-751.74	25.00	2.79	0.00	883.28	238.33	Gyro Surveys
412	10375.00	1.43	295.61	10298.76	-86.20	-463.66	-752.26	25.00	3.29	0.00	883.67	238.35	Gyro Surveys
413	10400.00	1.60	308.48	10323.75	-85.64	-463.31	-752.81	25.00	1.52	0.00	883.95	238.39	Gyro Surveys
414	10425.00	1.66	307.43	10348.74	-85.00	-462.87	-753.37	25.00	0.27	0.00	884.20	238.43	Gyro Surveys
415	10450.00	1.66	307.08	10373.73	-84.35	-462.43	-753.95	25.00	0.04	0.00	884.47	238.48	Gyro Surveys
416	10475.00	1.54	301.37	10398.72	-83.75	-462.04	-754.52	25.00	0.80	0.00	884.75	238.52	Gyro Surveys
417	10500.00	1.48	287.85	10423.71	-83.24	-461.76	-755.12	25.00	1.44	0.00	885.11	238.55	Gyro Surveys
418	10525.00	1.49	280.61	10448.71	-82.82	-461.60	-755.74	25.00	0.75	0.00	885.57	238.58	Gyro Surveys
419	10550.00	1.50	270.97	10473.70	-82.48	-461.54	-756.39	25.00	1.01	0.00	886.08	238.61	Gyro Surveys
420	10575.00	1.62	267.39	10498.69	-82.19	-461.55	-757.07	25.00	0.62	0.00	886.67	238.63	Gyro Surveys
421	10600.00	1.60	272.48	10523.68	-81.88	-461.55	-757.77	25.00	0.58	0.00	887.27	238.65	Gyro Surveys
422	10625.00	1.65	292.58	10548.67	-81.45	-461.40	-758.45	25.00	2.28	0.00	887.77	238.69	Gyro Surveys
423	10650.00	1.87	288.65	10573.66	-80.89	-461.13	-759.17	25.00	1.00	0.00	888.25	238.73	Gyro Surveys

424	10675.00	1.77	294.43	10598.64	-80.30	-460.84	-759.91	25.00	0.84	0.00	888.73	238.77	Gyro Surveys
425	10700.00	1.90	288.33	10623.63	-79.72	-460.55	-760.66	25.00	0.94	0.00	889.21	238.81	Gyro Surveys
426	10725.00	1.88	274.14	10648.62	-79.22	-460.39	-761.46	25.00	1.87	0.00	889.82	238.84	Gyro Surveys
427	10750.00	1.99	270.19	10673.60	-78.82	-460.36	-762.30	25.00	0.69	0.00	890.52	238.87	Gyro Surveys
428	10775.00	2.12	264.40	10698.59	-78.47	-460.40	-763.20	25.00	0.98	0.00	891.31	238.90	Gyro Surveys
429	10800.00	2.07	266.00	10723.57	-78.14	-460.48	-764.11	25.00	0.31	0.00	892.13	238.93	Gyro Surveys
430	10825.00	2.08	262.47	10748.55	-77.82	-460.57	-765.01	25.00	0.51	0.00	892.95	238.95	Gyro Surveys
431	10850.00	2.07	262.52	10773.54	-77.54	-460.69	-765.90	25.00	0.04	0.00	893.78	238.97	Gyro Surveys
432	10875.00	1.90	257.08	10798.52	-77.30	-460.84	-766.76	25.00	1.01	0.00	894.59	238.99	Gyro Surveys
433	10900.00	1.93	254.28	10823.51	-77.13	-461.05	-767.56	25.00	0.39	0.00	895.39	239.01	Gyro Surveys
434	10925.00	1.71	245.49	10848.50	-77.04	-461.31	-768.31	25.00	1.42	0.00	896.16	239.02	Gyro Surveys
435	10950.00	1.66	230.25	10873.49	-77.12	-461.70	-768.93	25.00	1.80	0.00	896.89	239.02	Gyro Surveys
436	10975.00	1.71	212.86	10898.47	-77.40	-462.25	-769.41	25.00	2.05	0.00	897.58	239.00	Gyro Surveys
437	11000.00	1.26	208.34	10923.47	-77.75	-462.80	-769.74	25.00	1.86	0.00	898.16	238.98	Gyro Surveys
438	11025.00	1.08	194.38	10948.46	-78.09	-463.27	-769.93	25.00	1.34	0.00	898.56	238.96	Gyro Surveys
439	11050.00	0.91	204.42	10973.46	-78.39	-463.68	-770.07	25.00	0.97	0.00	898.89	238.95	Gyro Surveys
440	11075.00	1.14	201.40	10998.45	-78.69	-464.09	-770.24	25.00	0.94	0.00	899.25	238.93	Gyro Surveys
441	11100.00	1.41	183.25	11023.45	-79.13	-464.63	-770.35	25.00	1.93	0.00	899.62	238.90	Gyro Surveys
442	11125.00	1.50	195.64	11048.44	-79.64	-465.25	-770.46	25.00	1.31	0.00	900.04	238.87	Gyro Surveys
443	11143.00	1.46	187.52	11066.43	-80.01	-465.71	-770.55	18.00	1.19	0.00	900.35	238.85	Gyro Surveys
444	11220.00	1.12	168.24	11143.41	-81.55	-467.42	-770.53	77.00	0.71	0.00	901.21	238.76	Gyro Surveys
445	11311.00	0.94	204.22	11234.40	-82.89	-468.97	-770.65	91.00	0.72	0.00	902.13	238.68	Gyro Surveys
446	11392.00	0.60	208.07	11315.39	-83.56	-469.95	-771.12	81.00	0.42	149.00	903.04	238.64	MWD Run 3
447	11437.00	0.36	297.08	11360.39	-83.59	-470.09	-771.36	45.00	1.54	149.00	903.32	238.64	MWD Run 3
448	11483.00	2.24	0.20	11406.38	-82.67	-469.13	-771.48	46.00	4.57	149.00	902.92	238.70	MWD Run 3
449	11528.00	4.84	348.24	11451.29	-80.04	-466.39	-771.87	45.00	5.98	150.80	901.83	238.86	MWD Run 3
450	11627.00	10.33	0.69	11549.39	-68.05	-453.41	-772.61	99.00	5.76	150.80	895.83	239.59	MWD Run 4
451	11673.00	13.59	356.61	11594.39	-59.38	-443.89	-772.88	46.00	7.32	150.80	891.28	240.13	MWD Run 4
452	11718.00	19.22	355.85	11637.54	-47.62	-431.22	-773.73	45.00	12.52	154.40	885.78	240.87	MWD Run 4
453	11764.00	24.44	0.13	11680.23	-32.04	-414.14	-774.26	46.00	11.86	152.60	878.06	241.86	MWD Run 4
454	11809.00	29.41	358.32	11720.34	-13.61	-393.77	-774.56	45.00	11.19	147.20	868.91	243.05	MWD Run 4
455	11854.00	33.28	358.46	11758.76	7.69	-370.37	-775.22	45.00	8.60	145.40	859.15	244.46	MWD Run 5
456	11868.00	35.46	357.55	11770.32	14.91	-362.48	-775.50	14.00	16.00	149.00	856.03	244.95	MWD Run 5
457	11900.00	38.93	355.66	11795.81	32.76	-343.17	-776.65	32.00	11.42	149.00	849.09	246.16	MWD Run 5
458	11945.00	44.94	355.13	11829.27	60.74	-313.21	-779.07	45.00	13.38	150.80	839.68	248.10	MWD Run 5
459	12000.00	54.47	356.48	11864.80	99.62	-271.42	-782.10	55.00	17.43	140.00	827.86	250.86	MWD Run 6
460	12037.00	64.79	357.45	11883.48	128.96	-239.58	-783.78	37.00	27.98	141.80	819.58	253.00	MWD Run 6
461	12090.00	80.75	354.69	11899.13	175.71	-189.25	-787.29	53.00	30.52	143.60	809.72	256.48	MWD Run 6
462	12165.00	93.94	345.28	11902.60	247.49	-115.73	-800.31	75.00	21.58	161.60	808.63	261.77	MWD Run 7
463	12255.00	92.65	343.80	11897.43	335.80	-29.13	-824.26	90.00	2.18	167.00	824.77	267.98	MWD Run 7
464	12346.00	92.51	340.94	11893.33	425.72	57.50	-851.79	91.00	3.14	172.40	853.73	273.86	MWD Run 7
465	12436.00	92.54	341.75	11889.37	514.89	142.68	-880.55	90.00	0.90	176.00	892.03	279.20	MWD Run 7
466	12527.00	92.26	342.66	11885.56	604.86	229.25	-908.33	91.00	1.05	172.40	936.82	284.17	MWD Run 7
467	12618.00	92.43	343.22	11881.83	694.67	316.18	-935.01	91.00	0.64	177.80	987.02	288.68	MWD Run 7
468	12709.00	91.70	342.97	11878.55	784.45	403.19	-961.45	91.00	0.85	179.60	1042.57	292.75	MWD Run 7
469	12800.00	92.20	344.21	11875.46	874.12	490.43	-987.15	91.00	1.47	181.40	1102.26	296.42	MWD Run 7
470	12890.00	89.57	342.93	11874.07	962.83	576.73	-1012.60	90.00	3.25	179.60	1165.32	299.66	MWD Run 7
471	12981.00	89.23	342.15	11875.02	1052.80	663.53	-1039.90	91.00	0.93	181.40	1233.56	302.54	MWD Run 7
472	13071.00	88.39	340.39	11876.89	1142.05	748.75	-1068.79	90.00	2.17	183.20	1304.96	305.01	MWD Run 7
473	13162.00	88.02	340.22	11879.74	1232.44	834.38	-1099.44	91.00	0.45	183.20	1380.21	307.20	MWD Run 7
474	13253.00	89.45	341.41	11881.75	1322.76	920.30	-1129.34	91.00	2.04	185.00	1456.83	309.18	MWD Run 7
475	13344.00	88.56	341.55	11883.33	1412.97	1006.58	-1158.24	91.00	0.99	185.00	1534.51	310.99	MWD Run 7
476	13435.00	91.11	346.05	11883.59	1502.59	1093.93	-1183.62	91.00	5.68	185.00	1611.72	312.74	MWD Run 7
477	13525.00	89.45	344.09	11883.15	1590.89	1180.89	-1206.80	90.00	2.85	185.00	1688.45	314.38	MWD Run 7
478	13616.00	91.11	340.38	11882.71	1680.93	1267.53	-1234.56	91.00	4.47	177.80	1769.40	315.75	MWD Run 7
479	13707.00	88.89	338.43	11882.71	1771.50	1352.70	-1266.57	91.00	3.25	185.00	1853.11	316.88	MWD Run 7
480	13798.00	88.61	342.62	11884.69	1861.86	1438.46	-1296.89	91.00	4.61	181.40	1936.77	317.96	MWD Run 7
481	13889.00	86.68	343.21	11888.43	1951.67	1525.36	-1323.61	91.00	2.22	183.20	2019.57	319.05	MWD Run 7
482	13980.00	92.14	345.33	11889.37	2041.15	1612.91	-1348.26	91.00	6.44	183.20	2102.21	320.11	MWD Run 7
483	14070.00	93.40	345.31	11885.02	2129.28	1699.87	-1371.04	90.00	1.40	186.80	2183.88	321.11	MWD Run 7
484	14161.00	92.68	343.49	11880.19	2218.64	1787.39	-1395.48	91.00	2.15	185.00	2267.63	322.02	MWD Run 7
485	14251.00	87.77	340.82	11879.84	2307.69	1873.03	-1423.05	90.00	6.21	185.00	2352.30	322.77	MWD Run 7
486	14342.00	85.69	340.45	11885.03	2397.92	1958.73	-1453.17	91.00	2.32	186.80	2438.92	323.43	MWD Run 7
487	14433.00	87.46	340.49	11890.47	2488.16	2044.34	-1483.54	91.00	1.95	185.00	2525.91	324.03	MWD Run 7
488	14523.00	90.18	342.68	11892.32	2577.33	2129.70	-1511.96	90.00	3.88	188.60	2611.83	324.63	MWD Run 7
489	14614.00	90.83	344.76	11891.52	2667.00	2217.04	-1537.47	91.00	2.39	190.40	2697.98	325.26	MWD Run 7
490	14705.00	90.13	343.41	11890.76	2756.58	2304.55	-1562.42	91.00	1.67	192.20	2784.26	325.86	MWD Run 7
491	14795.00	90.46	342.10	11890.29	2845.51	2390.50	-1589.10	90.00	1.50	192.20	2870.49	326.39	MWD Run 7
492	14886.00	90.24	337.24	11889.74	2936.03	2475.80	-1620.70	91.00	5.35	190.40	2959.10	326.79	MWD Run 7
493	14977.00	89.45	332.23	11889.98	3026.99	2558.07	-1659.53	91.00	5.57	188.60	3049.23	327.03	MWD Run 7
494	15067.00	88.70	339.93	11891.44	3116.85	2640.27	-1695.99	90.00	8.59	185.00	3138.06	327.29	MWD Run 7
495	15158.00	89.12	345.96	11893.17	3206.67	2727.21	-1722.66	91.00	6.64	190.40	3225.72	327.72	MWD Run 7
496	15249.00	90.41	348.65	11893.54	3295.20	2815.98	-1742.66	91.00	3.28	192.20	3311.58	328.25	MWD Run 7
497	15340.00	89.68	351.00	11893.47	3382.72	2905.54	-1758.73	91.00	2.70	192.20	3396.36	328.81	MWD Run 7

498	15431.00	88.75	350.37	11894.72	3469.86	2995.33	-1773.46	91.00	1.23	188.60	3480.97	329.37	MWD Run 7
499	15522.00	89.79	345.62	11895.88	3558.11	3084.30	-1792.38	91.00	5.34	188.60	3567.29	329.84	MWD Run 7
500	15612.00	89.26	340.44	11896.63	3646.94	3170.35	-1818.64	90.00	5.79	192.20	3654.94	330.16	MWD Run 7
501	15703.00	89.31	336.26	11897.76	3737.65	3254.91	-1852.20	91.00	4.59	194.00	3745.01	330.36	MWD Run 7
502	15794.00	90.18	339.23	11898.17	3828.44	3339.12	-1886.66	91.00	3.40	192.20	3835.26	330.53	MWD Run 7
503	15885.00	89.96	336.78	11898.06	3919.20	3423.49	-1920.74	91.00	2.70	195.80	3925.50	330.71	MWD Run 7
504	15975.00	90.35	340.05	11897.81	4008.92	3507.16	-1953.85	90.00	3.66	192.20	4014.69	330.88	MWD Run 7
505	16066.00	90.27	345.62	11897.32	4098.79	3594.08	-1980.69	91.00	6.12	194.00	4103.72	331.14	MWD Run 7
506	16157.00	89.62	343.08	11897.41	4188.29	3681.69	-2005.24	91.00	2.88	190.40	4192.36	331.43	MWD Run 7
507	16247.00	91.05	345.95	11896.88	4276.75	3768.41	-2029.26	90.00	3.56	192.20	4280.05	331.70	MWD Run 7
508	16337.00	91.02	348.50	11895.25	4364.32	3856.17	-2049.16	90.00	2.83	194.00	4366.81	332.01	MWD Run 7
509	16428.00	87.97	346.29	11896.06	4452.81	3944.95	-2069.01	91.00	4.14	194.00	4454.60	332.32	MWD Run 7
510	16519.00	85.56	345.61	11901.19	4541.67	4033.08	-2091.07	91.00	2.75	194.00	4542.94	332.59	MWD Run 7
511	16609.00	88.70	346.14	11905.70	4629.61	4120.24	-2113.00	90.00	3.54	195.80	4630.46	332.85	MWD Run 7
512	16699.00	90.80	347.58	11906.09	4717.32	4207.88	-2133.46	90.00	2.83	199.40	4717.82	333.11	MWD Run 7
513	16790.00	90.32	346.42	11905.20	4805.97	4296.54	-2153.93	91.00	1.38	201.20	4806.21	333.37	MWD Run 7
514	16933.00	89.71	344.58	11905.16	4946.06	4434.98	-2189.73	143.00	1.36	203.00	4946.10	333.72	MWD Run 7
515	16993.00	89.71	344.58	11905.47	5005.03	4492.82	-2205.68	60.00	0.00	0.00	5005.04	333.85	Projection to bit



MWD SURVEY CERTIFICATION
Gordon Technologies, LLC

State Of Texas

County Of Loving

I, Loren Fulton certify that; I am employed by Gordon Technologies, LLC.;
that I did on the day(s) of May 16, 2023 through May 30, 2023 conduct
or supervise the taking of a MWD survey from a depth of 11,220 feet to a depth of
16,933 feet; that the data is true, correct, complete and within the limitations of the
tool set forth by Gordon Technologies, LLC.; that I am authorized and qualified to make this report;
that this survey was conducted at the request of ConocoPhillips Company for the
UL 20 Gold Spoon #2904H Well, A.P.I. No. 42301360720000 in
Phantom (Wolfcamp) Field and that I have reviewed this report and find that
it conforms to the principles and procedures set forth by Gordon Technologies, LLC.

A handwritten signature in black ink, appearing to read "Loren Fulton", written over a horizontal line.

Signature

MWD Coordinator

Title