



Company: ConocoPhillips
Lease/Well: UL 20 Paddle Tail D/553H
API: 42-301-36081
Rig Name: Open Hole
State/County: Texas/Loving
VS-Azi: 0.00 Degrees
Latitude: 31.74243, Longitude: -103.35717
Grid North = True North +1.56 degs (NAD 27)
Grid Correction Applied = +1.56 degs



Depth Reference = : 32.5 Ft

DRILLOG HA GYRO SURVEY CALCULATIONS

Error Model: VESSI_GYROFLEX.IPM

Filename: UL 20 Paddle Tail D 553H.ut

Minimum Curvature Method

Report Date/Time: 12/19/2022 / 07:19

Vaughn Energy Services

PO Box 728 Cisco, TX 76437

254-442-2300

Gregg Wilson

API# 42-301-36081

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	****
100.00	0.53	295.88	100.00	0.20	-0.42	0.20	0.46	295.88	0.53
200.00	0.55	289.30	199.99	0.56	-1.29	0.56	1.41	293.64	0.07
300.00	0.38	272.04	299.99	0.74	-2.07	0.74	2.20	289.53	0.22
400.00	0.50	254.02	399.99	0.63	-2.82	0.63	2.89	282.54	0.18
500.00	0.59	248.64	499.98	0.32	-3.71	0.32	3.73	274.94	0.10
600.00	0.84	275.81	599.98	0.21	-4.92	0.21	4.92	272.43	0.42
700.00	1.60	283.50	699.95	0.61	-7.01	0.61	7.03	274.97	0.78
800.00	2.77	282.45	799.88	1.46	-10.73	1.46	10.82	277.73	1.17
900.00	2.19	281.76	899.78	2.37	-14.96	2.37	15.14	278.99	0.58
1000.00	1.50	223.75	999.74	1.82	-17.74	1.82	17.83	275.84	1.89
1100.00	1.15	193.94	1099.71	-0.10	-18.88	-0.10	18.88	269.70	0.76
1206.00	0.87	190.88	1205.70	-1.92	-19.29	-1.92	19.38	264.31	0.27

HORIZONTAL DISPLACEMENT IS
19.38 FEET AT 264.31 DEGREES



I Gregg Wilson certify that I am employed by Vaughn Energy Services Inc.
That I did on the day(s) of 12/17/2022 conduct or supervise the take of a
Rate Gyro survey from a depth of 0.00 feet to a depth of 1,206.00
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
ConocoPhillips for the UL 20 Paddle Tail D Well # 553H
API# 42-301-36081 in Loving County/ Parish Texas
; and I have reviewed this report and find that it conforms to the principles and procedures as set forth by Vaughn
Energy Services Inc.

Gregg Wilson
Service Technician
Vaughn Energy Services Inc.

OPERATOR: PDEH LLC

WELL LOCATION

LEASE NAME & WELL NO.:

UL 20 PADDLE TAIL D #553H

PSA ACRES:

1,922.10 ACRES (CALLED)

NEAREST TOWN IN COUNTY:

±14.2 MILES NORTHEAST OF MENTONE, TEXAS

DESCRIPTION:

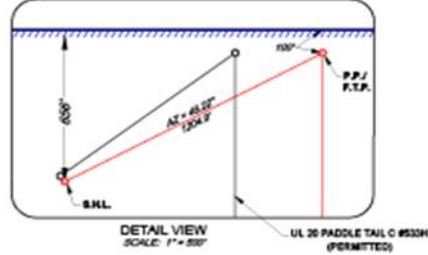
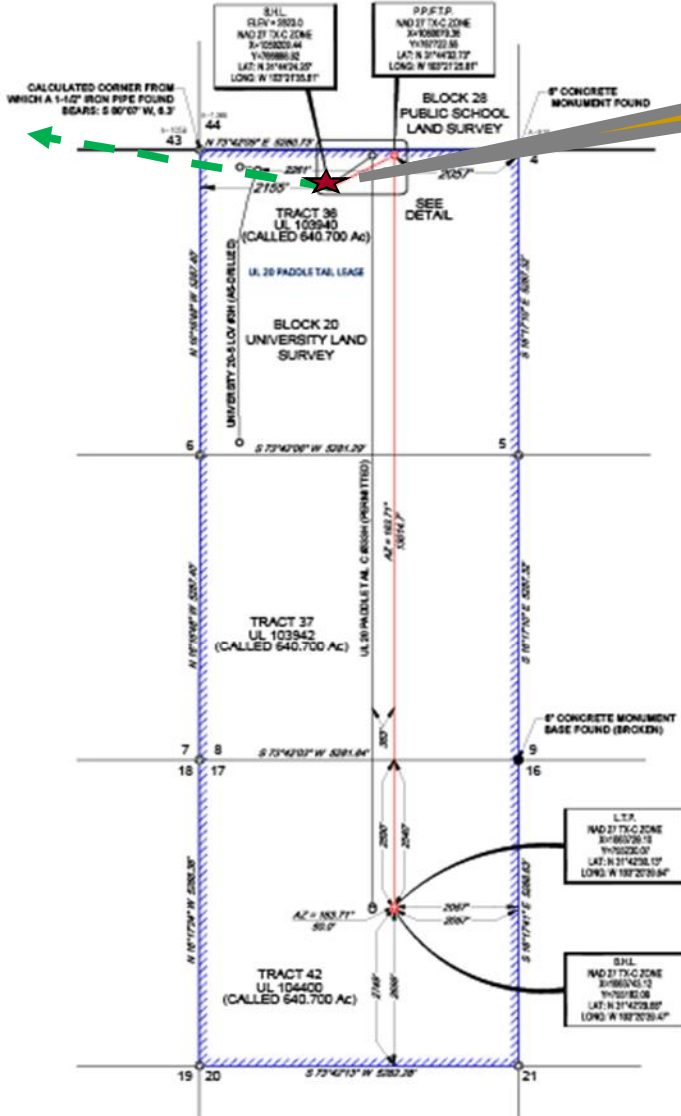
S.H.L./P.P./F.T.P.: SECTION 5, BLOCK 20, UNIVERSITY LAND SURVEY

L.T.P.B.H.L.: SECTION 17, BLOCK 20, UNIVERSITY LAND SURVEY

LOVING COUNTY, TEXAS



VES Bottom Hole Location is 19.38' @ 264.31° of Surface Location



PRODUCTIVE LATERAL

LENGTH (F.T.P. TO L.T.P.)	
1	5.187'
2	5.287'
3	2.549'
TOTAL	13.024'

TIES TABLE

POINT	PSA	SURVEY SECTION
S.H.L.	2115' FSWL	2115' FSWL
P.P./F.T.P.	190' FSWL	190' FSWL
L.T.P.	2257' FSWL	2257' FSWL
B.H.L.	2697' FSWL	2697' FSWL

LEGEND:	
PSA Boundary	PSA Boundary
Block/Township Line	Block/Township Line
Section Line	Section Line
Proposed Well Path	Proposed Well Path
Existing/Permitted Well Path	Existing/Permitted Well Path
Monument Found	Monument Found
Calculated Corner	Calculated Corner
Well Point	Well Point



1800 EVERMAN PARKWAY, SUITE 100, FT. WORTH, TEXAS 76104
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TELEFAX: (817) 714-1004
WWW.TOPOGRAPHIC.COM



John R. Anderson 7/26/2022
John R. Anderson, R.P.L.S. No. 6442

UL-20-S-P2 UL 20 PADDLE TAIL D #553H	REVISION:		NOTES:	NOTES CONT'D:
	INT	DATE		
DATE: 07/20/2022			1. ORIGINAL DOCUMENT SIZE: 11" x 17"	5. THE PRELIMINARY LOCATION HAS BEEN CAREFULLY SURVEYED ON THE GROUND DURING THE DATE OF JULY 2, 2022.
FILE: UL-20-S-P2_PADDLE_TAIL_D_#553H			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.	7. S.H.L. = SURFACE HOLE LOCATION
DRAWN BY: A.C.L.			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 PERMAN OIL/GAS/ENERGY SERVICES HOLDINGS, LLC. THIS PLAN 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 PRACTICES FOR BOUNDARY SURVEYS. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAN AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.	8. P.P. = POINT OF PENETRATION
SHEET: 1 OF 1			4. ALL ELEVATION VALUES CONTAINED HEREIN ARE ORTHOMETRIC ONLY, BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.	9. F.T.P. = FIRST TIE POINT
			5. ALL MINERAL OWNERSHIP DATA SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY PERMAN OIL/GAS/ENERGY SERVICES HOLDINGS, LLC OR ITS SUBSIDIARIES & AFFILIATES.	10. L.T.P. = LAST TIE POINT
				11. B.H.L. = BOTTOM HOLE LOCATION

VES Bottom Hole
Location is

19.38' @ 264.31°

of Surface
Location

MD / FT 1206'

1205.70' TVD / FT

North / FT South / FT

East / FT West / FT

1.92'

19.29'



Proposed Azimuth:	158.83
Target Inclination:	0.00

[illegible]



Survey Certification Letter

January 12, 2023

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 12/14/2022 through 12/17/2022 conducted and / or supervised the MWD survey(s) taken from the depth of 120 feet to depth of 1289 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 Paddle Tail D 553H** API No. **42-301-36081**. 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 PADDLE TAIL D #553H

PSA ACREAGE:

1,922.10 ACRES (CALLED)

NEAREST TOWN IN COUNTY:

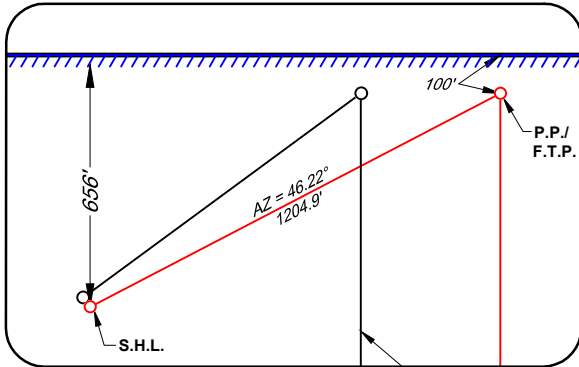
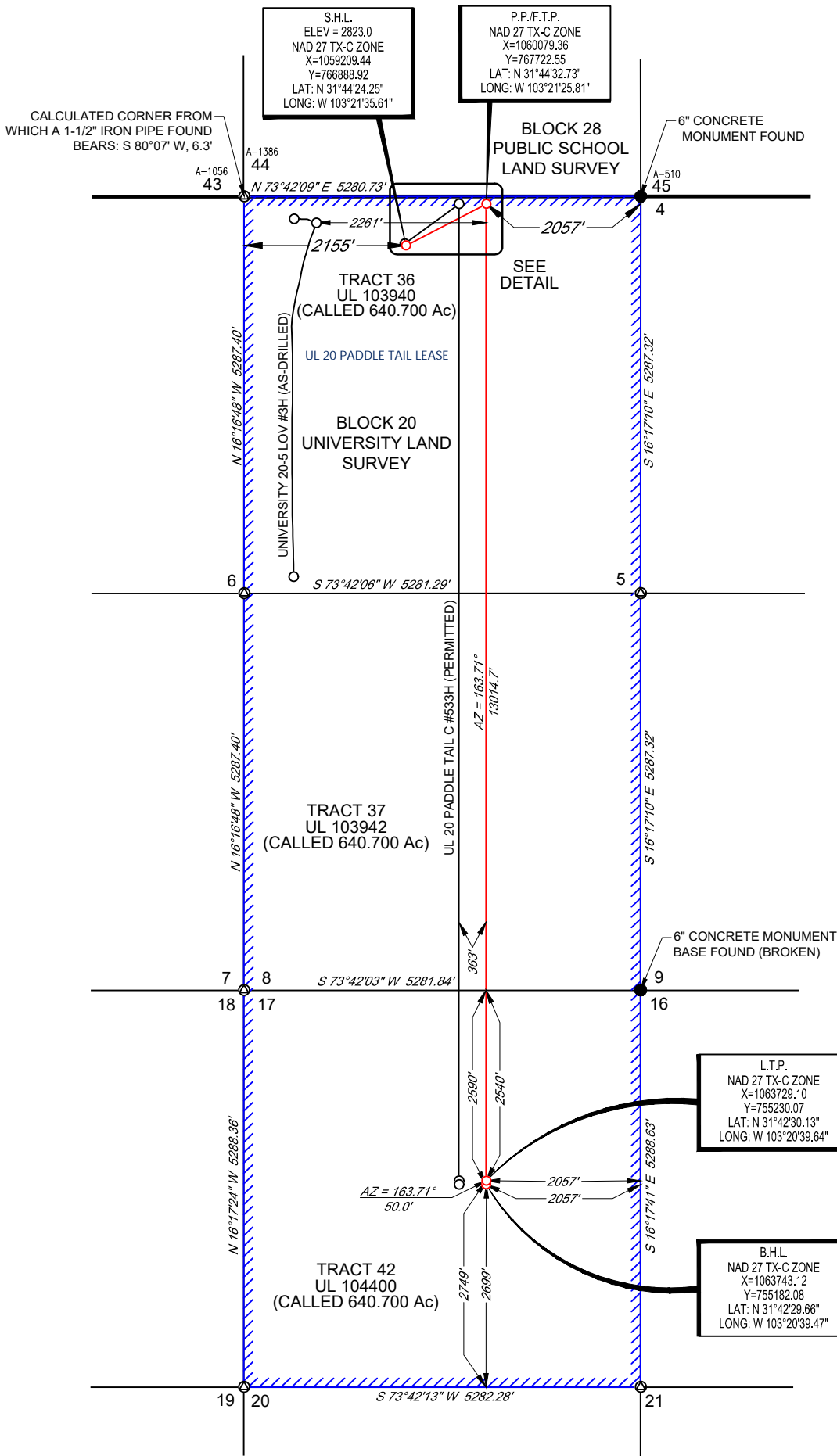
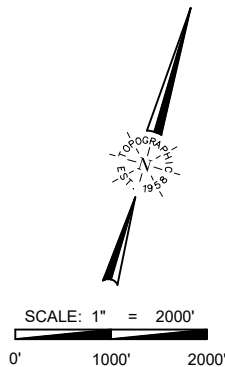
±14.2 MILES NORTHEAST OF MENTONE, TEXAS

DESCRIPTION:

S.H.L./P.P./F.T.P.: SECTION 5, BLOCK 20, UNIVERSITY LAND SURVEY

L.T.P/B.H.L.: SECTION 17, BLOCK 20, UNIVERSITY LAND SURVEY

LOVING COUNTY, TEXAS



DETAIL VIEW
SCALE: 1" = 500'

PRODUCTIVE LATERAL

LENGTH (F.T.P. TO L.T.P.)	
1	5,187'
2	5,287'
3	2,540'
TOTAL	13,014'

TIES TABLE

POINT	PSA	SURVEY/SECTION
S.H.L.	656' FNWL	656' FNWL & 2155' FSWL
	2155' FSWL	
P.P. / F.T.P.	100' FNWL	100' FNWL & 2057' FNEL
	2057' FNEL	
L.T.P.	2749' FSEL	2540' FNWL & 2057' FNEL
	2057' FNEL	
B.H.L.	2699' FSEL	2590' FNWL & 2057' FNEL
	2057' FNEL	

LEGEND:

- PSA Boundary
- Block/Township Line
- Section Line
- Proposed Well Path
- Existing/Permitted Well Path
- Monument Found
- Calculated Corner
- Well Point



John R. Anderson 7/26/2022
John R. Anderson, R.P.L.S. No. 6442



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TEXAS FIRM REGISTRATION NO. 10042504
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UL-20-5-P2 UL 20 PADDLE TAIL D #553H	REVISION:		NOTES:
	INT	DATE	
DATE: 07/20/2022			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.
FILE: LO_UL-20-5-P2_PADDLE_TAIL_D_#553H			
DRAWN BY: A.C.L.			
SHEET: 1 OF 1			

NOTES CONT'D:
6. THE PRELIMINARY LOCATION HAS BEEN CAREFULLY SURVEYED ON THE GROUND DURING THE DATE OF JULY 2, 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



Directional Survey Report

Company: **ConocoPhillips Company**
 Well: **UL 20 Paddle Tail D #553H**
 County: **Loving**
 State: **Texas**
 Field: **Phantom (Wolfcamp)**
 API: **42301360810000**
 Rig: **Nabors X04**
 Service Co: **Gordon Technologies LLC**
 Job #: **GT230049**
 Survey Calc: **Minimum Curvature**

Well Surface Location
 Latitude: **31.740070**
 Longitude: **-103.359893**
 Reference: **NAD 1927**
 Y (Northing): **766888.92**
 X (Easting): **1059209.44**
 Field Engr: **Michael Barrett**
Onyeka Nwachukwu

Report Date: **Feb 15 2023**
 Time: **12:02**
 Mag Reference: **Grid North**
 Mag Correction: **8.05**
 Vert Sect. Azi: **158.83**
 Perm Datum: **Mean Sea Level**
 Depth Ref: **Rotary Table**
 RKB Height: **32**
 GL Elev: **2823**

Survey	Rectangular Offsets								Course		Closure			Source
	MD	Inc	Azimuth	TVD	VS	NS	EW	Length	DLS	Temp	Distance	Azimuth		
Tie In	0	0	0	0	0	0	0	0	0	0	0	0		
1	100.00	0.73	305.15	100.00	-0.53	0.37	-0.52	100.00	0.73	0.00	0.64	305.15	3rd Party MSA Extra Survey	
2	125.00	0.83	303.21	124.99	-0.81	0.56	-0.80	25.00	0.41	0.00	0.98	304.79	3rd Party MSA Extra Survey	
3	150.00	0.76	305.67	149.99	-1.10	0.75	-1.09	25.00	0.31	0.00	1.32	304.68	3rd Party MSA Extra Survey	
4	175.00	0.66	300.57	174.99	-1.35	0.92	-1.35	25.00	0.47	0.00	1.63	304.42	3rd Party MSA Extra Survey	
5	200.00	0.62	310.38	199.99	-1.58	1.08	-1.57	25.00	0.47	0.00	1.91	304.55	3rd Party MSA Extra Survey	
6	225.00	0.66	315.07	224.99	-1.83	1.27	-1.78	25.00	0.26	0.00	2.19	305.60	3rd Party MSA Extra Survey	
7	250.00	0.86	311.06	249.99	-2.13	1.50	-2.02	25.00	0.83	0.00	2.52	306.55	3rd Party MSA Extra Survey	
8	275.00	0.85	305.28	274.98	-2.45	1.73	-2.32	25.00	0.35	0.00	2.89	306.76	3rd Party MSA Extra Survey	
9	300.00	0.84	306.71	299.98	-2.76	1.95	-2.61	25.00	0.09	0.00	3.26	306.67	3rd Party MSA Extra Survey	
10	325.00	0.82	297.08	324.98	-3.05	2.14	-2.92	25.00	0.56	0.00	3.62	306.20	3rd Party MSA Extra Survey	
11	350.00	0.89	292.32	349.97	-3.31	2.29	-3.26	25.00	0.40	0.00	3.98	305.12	3rd Party MSA Extra Survey	
12	375.00	0.82	294.52	374.97	-3.58	2.44	-3.60	25.00	0.31	0.00	4.35	304.12	3rd Party MSA Extra Survey	
13	400.00	0.76	284.94	399.97	-3.80	2.56	-3.92	25.00	0.58	0.00	4.68	303.09	3rd Party MSA Extra Survey	
14	425.00	0.72	279.02	424.97	-3.98	2.62	-4.24	25.00	0.34	0.00	4.99	301.76	3rd Party MSA Extra Survey	
15	450.00	0.78	277.49	449.97	-4.14	2.67	-4.56	25.00	0.25	0.00	5.29	300.35	3rd Party MSA Extra Survey	
16	475.00	0.86	279.62	474.96	-4.32	2.72	-4.92	25.00	0.34	0.00	5.62	298.99	3rd Party MSA Extra Survey	
17	500.00	0.86	275.56	499.96	-4.50	2.77	-5.29	25.00	0.24	0.00	5.97	297.68	3rd Party MSA Extra Survey	
18	525.00	0.81	272.66	524.96	-4.65	2.80	-5.65	25.00	0.26	0.00	6.31	296.36	3rd Party MSA Extra Survey	
19	550.00	0.86	276.42	549.95	-4.81	2.83	-6.01	25.00	0.30	0.00	6.65	295.20	3rd Party MSA Extra Survey	
20	575.00	0.90	279.10	574.95	-5.00	2.88	-6.39	25.00	0.23	0.00	7.01	294.26	3rd Party MSA Extra Survey	
21	600.00	1.15	277.17	599.95	-5.21	2.94	-6.84	25.00	1.01	0.00	7.44	293.30	3rd Party MSA Extra Survey	
22	625.00	1.18	277.63	624.94	-5.46	3.01	-7.34	25.00	0.13	0.00	7.93	292.29	3rd Party MSA Extra Survey	
23	650.00	1.55	275.58	649.94	-5.73	3.08	-7.93	25.00	1.49	0.00	8.51	291.20	3rd Party MSA Extra Survey	
24	675.00	1.76	280.53	674.92	-6.09	3.18	-8.65	25.00	1.02	0.00	9.21	290.19	3rd Party MSA Extra Survey	
25	700.00	2.02	278.13	699.91	-6.51	3.31	-9.46	25.00	1.09	0.00	10.02	289.30	3rd Party MSA Extra Survey	
26	725.00	2.28	280.74	724.89	-6.98	3.47	-10.39	25.00	1.11	0.00	10.95	288.46	3rd Party MSA Extra Survey	
27	750.00	2.48	287.38	749.87	-7.58	3.72	-11.39	25.00	1.36	0.00	11.98	288.09	3rd Party MSA Extra Survey	
28	775.00	2.85	297.83	774.84	-8.39	4.17	-12.46	25.00	2.44	0.00	13.14	288.52	3rd Party MSA Extra Survey	
29	800.00	3.17	303.51	799.81	-9.42	4.85	-13.58	25.00	1.75	0.00	14.42	289.63	3rd Party MSA Extra Survey	
30	825.00	3.19	304.56	824.77	-10.56	5.62	-14.73	25.00	0.25	0.00	15.77	290.89	3rd Party MSA Extra Survey	
31	850.00	3.19	303.97	849.73	-11.71	6.40	-15.88	25.00	0.13	0.00	17.12	291.96	3rd Party MSA Extra Survey	
32	875.00	2.82	298.63	874.70	-12.75	7.09	-17.00	25.00	1.85	0.00	18.42	292.64	3rd Party MSA Extra Survey	
33	900.00	2.44	289.74	899.67	-13.57	7.56	-18.04	25.00	2.23	0.00	19.56	292.74	3rd Party MSA Extra Survey	
34	925.00	1.87	268.33	924.66	-14.05	7.73	-18.95	25.00	3.91	0.00	20.46	292.19	3rd Party MSA Extra Survey	
35	950.00	1.84	257.26	949.64	-14.25	7.63	-19.75	25.00	1.44	0.00	21.17	291.13	3rd Party MSA Extra Survey	
36	975.00	1.56	234.67	974.63	-14.22	7.34	-20.42	25.00	2.88	0.00	21.70	289.79	3rd Party MSA Extra Survey	
37	1000.00	1.39	218.84	999.62	-13.99	6.91	-20.88	25.00	1.76	0.00	22.00	288.31	3rd Party MSA Extra Survey	
38	1025.00	1.28	203.73	1024.62	-13.64	6.42	-21.19	25.00	1.47	0.00	22.14	286.86	3rd Party MSA Extra Survey	
39	1050.00	1.21	200.73	1049.61	-13.24	5.92	-21.39	25.00	0.38	0.00	22.20	285.46	3rd Party MSA Extra Survey	
40	1075.00	1.14	202.13	1074.61	-12.87	5.44	-21.58	25.00	0.30	0.00	22.25	284.15	3rd Party MSA Extra Survey	
41	1100.00	1.21	201.97	1099.60	-12.49	4.96	-21.77	25.00	0.28	0.00	22.33	282.85	3rd Party MSA Extra Survey	
42	1125.00	1.22	198.46	1124.59	-12.09	4.47	-21.95	25.00	0.30	0.00	22.40	281.50	3rd Party MSA Extra Survey	
43	1150.00	1.08	200.50	1149.59	-11.71	3.99	-22.12	25.00	0.58	0.00	22.48	280.24	3rd Party MSA Extra Survey	
44	1175.00	1.13	208.63	1174.58	-11.38	3.56	-22.32	25.00	0.66	0.00	22.60	279.05	3rd Party MSA Extra Survey	
45	1200.00	1.21	206.78	1199.58	-11.04	3.11	-22.56	25.00	0.35	0.00	22.77	277.84	3rd Party MSA Extra Survey	
46	1225.00	1.18	201.36	1224.57	-10.68	2.63	-22.77	25.00	0.47	0.00	22.92	276.59	3rd Party MSA Extra Survey	
47	1250.00	1.14	201.26	1249.57	-10.30	2.16	-22.96	25.00	0.16	0.00	23.06	275.37	3rd Party MSA Extra Survey	
48	1275.00	1.22	205.69	1274.56	-9.94	1.69	-23.16	25.00	0.49	0.00	23.22	274.17	3rd Party MSA Extra Survey	

49	1300.00	1.31	207.63	1299.56	-9.57	1.19	-23.41	25.00	0.40	0.00	23.44	272.92	3rd Party MSA Extra Survey
50	1325.00	1.19	211.02	1324.55	-9.22	0.72	-23.68	25.00	0.56	0.00	23.69	271.74	3rd Party MSA Extra Survey
51	1350.00	1.23	208.72	1349.55	-8.89	0.26	-23.94	25.00	0.25	0.00	23.94	270.62	3rd Party MSA Extra Survey
52	1375.00	1.25	210.76	1374.54	-8.55	-0.21	-24.21	25.00	0.19	0.00	24.21	269.50	3rd Party MSA Extra Survey
53	1400.00	1.28	210.41	1399.53	-8.20	-0.68	-24.49	25.00	0.12	0.00	24.50	268.40	3rd Party MSA Extra Survey
54	1425.00	1.20	212.61	1424.53	-7.88	-1.15	-24.77	25.00	0.37	0.00	24.80	267.35	3rd Party MSA Extra Survey
55	1450.00	1.30	205.13	1449.52	-7.53	-1.62	-25.03	25.00	0.76	0.00	25.08	266.29	3rd Party MSA Extra Survey
56	1475.00	1.24	206.75	1474.52	-7.15	-2.12	-25.27	25.00	0.28	0.00	25.36	265.20	3rd Party MSA Extra Survey
57	1500.00	1.26	208.58	1499.51	-6.79	-2.60	-25.53	25.00	0.18	0.00	25.66	264.17	3rd Party MSA Extra Survey
58	1525.00	1.26	209.23	1524.50	-6.44	-3.09	-25.79	25.00	0.06	0.00	25.98	263.18	3rd Party MSA Extra Survey
59	1550.00	1.29	211.04	1549.50	-6.09	-3.57	-26.07	25.00	0.20	0.00	26.31	262.21	3rd Party MSA Extra Survey
60	1575.00	1.31	209.67	1574.49	-5.74	-4.06	-26.36	25.00	0.15	0.00	26.67	261.25	3rd Party MSA Extra Survey
61	1600.00	1.26	211.65	1599.49	-5.39	-4.54	-26.64	25.00	0.27	0.00	27.03	260.33	3rd Party MSA Extra Survey
62	1625.00	1.31	207.54	1624.48	-5.04	-5.03	-26.92	25.00	0.42	0.00	27.39	259.43	3rd Party MSA Extra Survey
63	1650.00	1.21	210.00	1649.47	-4.68	-5.51	-27.18	25.00	0.45	0.00	27.74	258.55	3rd Party MSA Extra Survey
64	1675.00	1.29	208.03	1674.47	-4.33	-5.98	-27.45	25.00	0.36	0.00	28.09	257.70	3rd Party MSA Extra Survey
65	1700.00	1.21	204.79	1699.46	-3.96	-6.47	-27.69	25.00	0.43	0.00	28.44	256.84	3rd Party MSA Extra Survey
66	1725.00	1.29	202.18	1724.46	-3.58	-6.97	-27.91	25.00	0.39	0.00	28.77	255.97	3rd Party MSA Extra Survey
67	1750.00	1.19	209.95	1749.45	-3.21	-7.46	-28.14	25.00	0.78	0.00	29.12	255.16	3rd Party MSA Extra Survey
68	1775.00	1.25	202.42	1774.44	-2.85	-7.94	-28.38	25.00	0.68	0.00	29.47	254.38	3rd Party MSA Extra Survey
69	1800.00	1.22	200.16	1799.44	-2.45	-8.44	-28.57	25.00	0.23	0.00	29.79	253.55	3rd Party MSA Extra Survey
70	1825.00	1.21	200.23	1824.43	-2.05	-8.93	-28.76	25.00	0.04	0.00	30.11	252.74	3rd Party MSA Extra Survey
71	1850.00	1.16	201.88	1849.43	-1.67	-9.42	-28.94	25.00	0.24	0.00	30.44	251.98	3rd Party MSA Extra Survey
72	1875.00	1.15	197.61	1874.42	-1.29	-9.89	-29.11	25.00	0.35	0.00	30.75	251.23	3rd Party MSA Extra Survey
73	1900.00	1.18	195.97	1899.42	-0.89	-10.38	-29.26	25.00	0.18	0.00	31.04	250.47	3rd Party MSA Extra Survey
74	1925.00	1.11	195.86	1924.41	-0.49	-10.86	-29.40	25.00	0.28	0.00	31.34	249.73	3rd Party MSA Extra Survey
75	1950.00	1.07	200.86	1949.41	-0.12	-11.31	-29.55	25.00	0.41	0.00	31.64	249.05	3rd Party MSA Extra Survey
76	1975.00	1.24	189.23	1974.40	0.28	-11.79	-29.67	25.00	1.15	0.00	31.93	248.32	3rd Party MSA Extra Survey
77	2000.00	1.19	192.86	1999.40	0.73	-12.31	-29.77	25.00	0.37	0.00	32.22	247.53	3rd Party MSA Extra Survey
78	2025.00	1.11	189.34	2024.39	1.16	-12.81	-29.87	25.00	0.43	0.00	32.50	246.79	3rd Party MSA Extra Survey
79	2050.00	0.65	172.38	2049.39	1.50	-13.19	-29.89	25.00	2.10	0.00	32.67	246.20	3rd Party MSA Extra Survey
80	2075.00	1.09	65.12	2074.39	1.62	-13.23	-29.66	25.00	5.70	0.00	32.47	245.96	3rd Party MSA Extra Survey
81	2100.00	1.75	48.34	2099.38	1.48	-12.87	-29.16	25.00	3.09	0.00	31.87	246.18	3rd Party MSA Extra Survey
82	2125.00	2.29	46.21	2124.36	1.15	-12.27	-28.51	25.00	2.18	0.00	31.04	246.71	3rd Party MSA Extra Survey
83	2150.00	4.03	39.59	2149.32	0.53	-11.25	-27.59	25.00	7.10	0.00	29.79	247.81	3rd Party MSA Extra Survey
84	2175.00	6.33	38.82	2174.22	-0.59	-9.50	-26.16	25.00	9.20	0.00	27.84	250.05	3rd Party MSA Extra Survey
85	2200.00	8.60	38.01	2199.01	-2.24	-6.95	-24.15	25.00	9.09	0.00	25.13	253.94	3rd Party MSA Extra Survey
86	2225.00	9.34	38.38	2223.70	-4.22	-3.89	-21.74	25.00	2.97	0.00	22.08	259.86	3rd Party MSA Extra Survey
87	2250.00	9.87	39.18	2248.35	-6.31	-0.64	-19.13	25.00	2.19	0.00	19.14	268.09	3rd Party MSA Extra Survey
88	2275.00	9.98	39.21	2272.98	-8.44	2.70	-16.40	25.00	0.44	0.00	16.62	279.35	3rd Party MSA Extra Survey
89	2300.00	10.03	39.54	2297.60	-10.58	6.06	-13.65	25.00	0.30	0.00	14.93	293.94	3rd Party MSA Extra Survey
90	2325.00	10.47	39.10	2322.20	-12.77	9.50	-10.83	25.00	1.79	0.00	14.41	311.26	3rd Party MSA Extra Survey
91	2350.00	11.93	41.17	2346.72	-15.10	13.21	-7.69	25.00	6.06	0.00	15.29	329.78	3rd Party MSA Extra Survey
92	2375.00	14.09	44.69	2371.08	-17.54	17.32	-3.85	25.00	9.20	0.00	17.74	347.46	3rd Party MSA Extra Survey
93	2400.00	15.12	45.95	2395.27	-20.05	21.75	0.63	25.00	4.31	0.00	21.76	1.66	3rd Party MSA Extra Survey
94	2425.00	15.70	47.45	2419.37	-22.55	26.30	5.47	25.00	2.81	0.00	26.86	11.74	3rd Party MSA Extra Survey
95	2450.00	15.89	47.80	2443.43	-25.01	30.89	10.49	25.00	0.85	0.00	32.62	18.76	3rd Party MSA Extra Survey
96	2475.00	15.94	48.28	2467.47	-27.45	35.47	15.59	25.00	0.56	0.00	38.75	23.73	3rd Party MSA Extra Survey
97	2500.00	16.06	48.21	2491.50	-29.87	40.06	20.73	25.00	0.49	0.00	45.11	27.36	3rd Party MSA Extra Survey
98	2525.00	16.15	48.36	2515.52	-32.30	44.68	25.91	25.00	0.40	0.00	51.64	30.11	3rd Party MSA Extra Survey
99	2550.00	16.16	49.04	2539.53	-34.70	49.27	31.13	25.00	0.76	0.00	58.28	32.29	3rd Party MSA Extra Survey
100	2575.00	16.38	49.47	2563.53	-37.04	53.84	36.44	25.00	1.00	0.00	65.01	34.09	3rd Party MSA Extra Survey
101	2600.00	16.46	49.88	2587.51	-39.36	58.41	41.83	25.00	0.56	0.00	71.84	35.61	3rd Party MSA Extra Survey
102	2625.00	16.58	50.85	2611.48	-41.61	62.95	47.30	25.00	1.20	0.00	78.74	36.92	3rd Party MSA Extra Survey
103	2650.00	16.54	50.32	2635.44	-43.85	67.47	52.81	25.00	0.63	0.00	85.68	38.05	3rd Party MSA Extra Survey
104	2675.00	16.54	50.34	2659.41	-46.10	72.01	58.29	25.00	0.02	0.00	92.64	38.99	3rd Party MSA Extra Survey
105	2700.00	16.64	50.47	2683.37	-48.36	76.56	63.79	25.00	0.43	0.00	99.65	39.80	3rd Party MSA Extra Survey
106	2725.00	16.70	50.62	2707.32	-50.61	81.12	69.32	25.00	0.30	0.00	106.71	40.52	3rd Party MSA Extra Survey
107	2750.00	16.83	50.86	2731.25	-52.85	85.68	74.91	25.00	0.59	0.00	113.81	41.16	3rd Party MSA Extra Survey
108	2775.00	16.93	51.19	2755.18	-55.07	90.25	80.55	25.00	0.55	0.00	120.97	41.75	3rd Party MSA Extra Survey
109	2800.00	17.07	51.90	2779.08	-57.24	94.79	86.27	25.00	1.00	0.00	128.18	42.31	3rd Party MSA Extra Survey
110	2825.00	17.12	51.63	2802.98	-59.40	99.34	92.05	25.00	0.38	0.00	135.43	42.82	3rd Party MSA Extra Survey
111	2850.00	17.03	51.39	2826.88	-61.58	103.91	97.79	25.00	0.46	0.00	142.69	43.26	3rd Party MSA Extra Survey
112	2875.00	17.23	52.30	2850.77	-63.73	108.46	103.58	25.00	1.34	0.00	149.98	43.68	3rd Party MSA Extra Survey
113	2900.00	17.37	52.04	2874.64	-65.86	113.02	109.45	25.00	0.64	0.00	157.33	44.08	3rd Party MSA Extra Survey
114	2925.00	17.38	52.14	2898.50	-68.01	117.61	115.34	25.00	0.13	0.00	164.73	44.44	3rd Party MSA Extra Survey
115	2950.00	17.43	52.10	2922.35	-70.16	122.20	121.25	25.00	0.21	0.00	172.14	44.78	3rd Party MSA Extra Survey
116	2975.00	17.37	52.60	2946.21	-72.29	126.76	127.17	25.00	0.64	0.00	179.56	45.09	3rd Party MSA Extra Survey

117	3000.00	17.34	52.79	2970.07	-74.36	131.28	133.10	25.00	0.26	0.00	186.95	45.39	3rd Party MSA Extra Survey
118	3025.00	17.32	53.30	2993.94	-76.38	135.76	139.05	25.00	0.61	0.00	194.33	45.69	3rd Party MSA Extra Survey
119	3050.00	17.45	53.11	3017.79	-78.40	140.23	145.03	25.00	0.57	0.00	201.74	45.96	3rd Party MSA Extra Survey
120	3075.00	17.44	53.40	3041.64	-80.41	144.72	151.04	25.00	0.35	0.00	209.18	46.22	3rd Party MSA Extra Survey
121	3100.00	17.31	53.58	3065.50	-82.38	149.16	157.04	25.00	0.56	0.00	216.59	46.47	3rd Party MSA Extra Survey
122	3125.00	17.30	53.94	3089.37	-84.32	153.56	163.03	25.00	0.43	0.00	223.96	46.71	3rd Party MSA Extra Survey
123	3150.00	17.39	53.96	3113.23	-86.23	157.94	169.06	25.00	0.36	0.00	231.36	46.95	3rd Party MSA Extra Survey
124	3175.00	17.35	54.54	3137.09	-88.11	162.30	175.12	25.00	0.71	0.00	238.76	47.17	3rd Party MSA Extra Survey
125	3200.00	17.34	54.37	3160.96	-89.96	166.64	181.18	25.00	0.21	0.00	246.16	47.39	3rd Party MSA Extra Survey
126	3225.00	17.41	54.24	3184.82	-91.83	170.99	187.24	25.00	0.32	0.00	253.57	47.60	3rd Party MSA Extra Survey
127	3250.00	17.48	54.58	3208.67	-93.70	175.35	193.34	25.00	0.49	0.00	261.02	47.79	3rd Party MSA Extra Survey
128	3275.00	17.41	54.23	3232.52	-95.57	179.72	199.43	25.00	0.50	0.00	268.46	47.98	3rd Party MSA Extra Survey
129	3300.00	17.36	55.05	3256.38	-97.40	184.04	205.53	25.00	1.00	0.00	275.88	48.16	3rd Party MSA Extra Survey
130	3325.00	17.40	55.42	3280.23	-99.15	188.30	211.66	25.00	0.47	0.00	283.29	48.34	3rd Party MSA Extra Survey
131	3350.00	17.16	55.70	3304.11	-100.86	192.50	217.78	25.00	1.02	0.00	290.66	48.53	3rd Party MSA Extra Survey
132	3375.00	17.00	55.75	3328.00	-102.52	196.63	223.85	25.00	0.64	0.00	297.95	48.70	3rd Party MSA Extra Survey
133	3400.00	16.82	56.18	3351.92	-104.14	200.70	229.88	25.00	0.88	0.00	305.16	48.88	3rd Party MSA Extra Survey
134	3425.00	16.62	56.46	3375.86	-105.70	204.69	235.86	25.00	0.86	0.00	312.30	49.05	3rd Party MSA Extra Survey
135	3450.00	16.45	56.34	3399.83	-107.23	208.63	241.79	25.00	0.69	0.00	319.35	49.21	3rd Party MSA Extra Survey
136	3475.00	16.21	56.65	3423.82	-108.73	212.51	247.65	25.00	1.02	0.00	326.33	49.37	3rd Party MSA Extra Survey
137	3500.00	16.20	56.47	3447.83	-110.21	216.35	253.47	25.00	0.20	0.00	333.25	49.52	3rd Party MSA Extra Survey
138	3525.00	15.93	56.68	3471.85	-111.68	220.16	259.25	25.00	1.10	0.00	340.12	49.66	3rd Party MSA Extra Survey
139	3550.00	15.81	56.25	3495.90	-113.15	223.94	264.94	25.00	0.67	0.00	346.91	49.79	3rd Party MSA Extra Survey
140	3575.00	15.57	56.53	3519.97	-114.60	227.68	270.57	25.00	1.01	0.00	353.62	49.92	3rd Party MSA Extra Survey
141	3600.00	15.57	55.96	3544.05	-116.07	231.41	276.15	25.00	0.61	0.00	360.29	50.04	3rd Party MSA Extra Survey
142	3625.00	15.28	55.71	3568.15	-117.56	235.15	281.66	25.00	1.19	0.00	366.91	50.14	3rd Party MSA Extra Survey
143	3650.00	15.28	56.24	3592.27	-119.03	238.83	287.12	25.00	0.56	0.00	373.47	50.25	3rd Party MSA Extra Survey
144	3675.00	15.19	56.37	3616.39	-120.45	242.48	292.58	25.00	0.39	0.00	380.00	50.35	3rd Party MSA Extra Survey
145	3700.00	15.03	56.44	3640.52	-121.85	246.08	298.01	25.00	0.64	0.00	386.48	50.45	3rd Party MSA Extra Survey
146	3725.00	14.93	56.35	3664.67	-123.24	249.66	303.39	25.00	0.41	0.00	392.91	50.55	3rd Party MSA Extra Survey
147	3750.00	14.51	56.48	3688.85	-124.61	253.17	308.68	25.00	1.69	0.00	399.23	50.64	3rd Party MSA Extra Survey
148	3775.00	14.44	56.10	3713.06	-125.97	256.64	313.88	25.00	0.47	0.00	405.45	50.73	3rd Party MSA Extra Survey
149	3800.00	14.00	56.26	3737.29	-127.31	260.06	318.98	25.00	1.77	0.00	411.56	50.81	3rd Party MSA Extra Survey
150	3825.00	13.76	56.45	3761.56	-128.61	263.38	323.98	25.00	0.98	0.00	417.53	50.89	3rd Party MSA Extra Survey
151	3850.00	13.37	56.04	3785.87	-129.88	266.64	328.85	25.00	1.61	0.00	423.37	50.96	3rd Party MSA Extra Survey
152	3875.00	13.12	55.91	3810.20	-131.16	269.85	333.60	25.00	1.01	0.00	429.07	51.03	3rd Party MSA Extra Survey
153	3900.00	12.71	56.26	3834.57	-132.39	272.96	338.24	25.00	1.67	0.00	434.64	51.10	3rd Party MSA Extra Survey
154	3925.00	12.53	56.30	3858.97	-133.58	276.00	342.78	25.00	0.72	0.00	440.08	51.16	3rd Party MSA Extra Survey
155	3950.00	12.28	56.33	3883.38	-134.74	278.97	347.25	25.00	1.00	0.00	445.43	51.22	3rd Party MSA Extra Survey
156	3975.00	12.19	56.83	3907.81	-135.87	281.89	351.67	25.00	0.56	0.00	450.70	51.29	3rd Party MSA Extra Survey
157	4000.00	12.15	57.31	3932.25	-136.94	284.76	356.09	25.00	0.44	0.00	455.95	51.35	3rd Party MSA Extra Survey
158	4025.00	12.04	57.84	3956.70	-137.96	287.57	360.52	25.00	0.63	0.00	461.16	51.42	3rd Party MSA Extra Survey
159	4050.00	12.05	58.10	3981.15	-138.95	290.33	364.94	25.00	0.22	0.00	466.34	51.50	3rd Party MSA Extra Survey
160	4075.00	11.96	59.09	4005.60	-139.87	293.04	369.38	25.00	0.90	0.00	471.50	51.57	3rd Party MSA Extra Survey
161	4100.00	11.94	59.47	4030.06	-140.73	295.69	373.83	25.00	0.32	0.00	476.63	51.66	3rd Party MSA Extra Survey
162	4125.00	11.85	59.70	4054.52	-141.56	298.30	378.27	25.00	0.41	0.00	481.73	51.74	3rd Party MSA Extra Survey
163	4150.00	11.87	59.88	4078.99	-142.36	300.88	382.71	25.00	0.17	0.00	486.82	51.83	3rd Party MSA Extra Survey
164	4175.00	11.75	60.15	4103.46	-143.15	303.44	387.14	25.00	0.53	0.00	491.89	51.91	3rd Party MSA Extra Survey
165	4200.00	11.56	59.93	4127.94	-143.92	305.96	391.52	25.00	0.78	0.00	496.89	51.99	3rd Party MSA Extra Survey
166	4225.00	11.30	58.93	4152.45	-144.73	308.48	395.78	25.00	1.31	0.00	501.80	52.07	3rd Party MSA Extra Survey
167	4250.00	10.98	52.90	4176.98	-145.80	311.18	399.78	25.00	4.83	0.00	506.61	52.10	3rd Party MSA Extra Survey
168	4275.00	11.03	47.42	4201.52	-147.33	314.23	403.44	25.00	4.19	0.00	511.38	52.09	3rd Party MSA Extra Survey
169	4300.00	11.12	44.80	4226.05	-149.19	317.56	406.90	25.00	2.04	0.00	516.15	52.03	3rd Party MSA Extra Survey
170	4325.00	11.18	44.53	4250.58	-151.16	321.00	410.30	25.00	0.32	0.00	520.95	51.96	3rd Party MSA Extra Survey
171	4350.00	10.93	44.00	4275.12	-153.16	324.43	413.64	25.00	1.08	0.00	525.70	51.89	3rd Party MSA Extra Survey
172	4375.00	10.92	43.89	4299.66	-155.15	327.85	416.93	25.00	0.09	0.00	530.39	51.82	3rd Party MSA Extra Survey
173	4400.00	10.49	43.26	4324.23	-157.13	331.21	420.13	25.00	1.78	0.00	534.99	51.75	3rd Party MSA Extra Survey
174	4425.00	10.43	43.28	4348.81	-159.09	334.51	423.24	25.00	0.24	0.00	539.48	51.68	3rd Party MSA Extra Survey
175	4450.00	10.21	42.90	4373.41	-161.03	337.78	426.30	25.00	0.92	0.00	543.91	51.61	3rd Party MSA Extra Survey
176	4475.00	10.22	42.85	4398.01	-162.97	341.03	429.32	25.00	0.05	0.00	548.29	51.54	3rd Party MSA Extra Survey
177	4500.00	10.23	42.84	4422.61	-164.92	344.29	432.34	25.00	0.04	0.00	552.68	51.47	3rd Party MSA Extra Survey
178	4525.00	10.79	41.42	4447.20	-166.97	347.67	435.40	25.00	2.47	0.00	557.18	51.39	3rd Party MSA Extra Survey
179	4550.00	11.32	40.16	4471.73	-169.22	351.30	438.53	25.00	2.33	0.00	561.89	51.30	3rd Party MSA Extra Survey
180	4575.00	11.32	39.95	4496.25	-171.59	355.06	441.69	25.00	0.16	0.00	566.70	51.21	3rd Party MSA Extra Survey
181	4600.00	11.42	40.19	4520.75	-173.96	358.83	444.86	25.00	0.44	0.00	571.54	51.11	3rd Party MSA Extra Survey
182	4625.00	11.40	40.01	4545.26	-176.33	362.61	448.04	25.00	0.16	0.00	576.39	51.02	3rd Party MSA Extra Survey
183	4650.00	11.57	40.03	4569.76	-178.73	366.42	451.24	25.00	0.68	0.00	581.28	50.92	3rd Party MSA Extra Survey
184	4675.00	11.47	39.96	4594.26	-181.14	370.25	454.45	25.00	0.40	0.00	586.18	50.83	3rd Party MSA Extra Survey

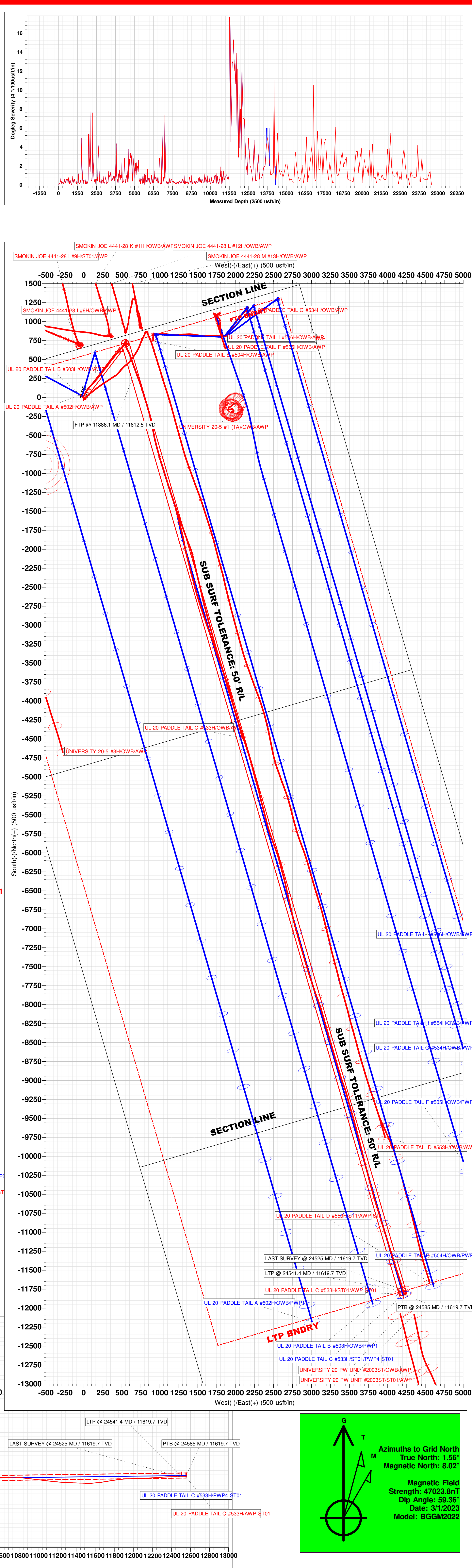
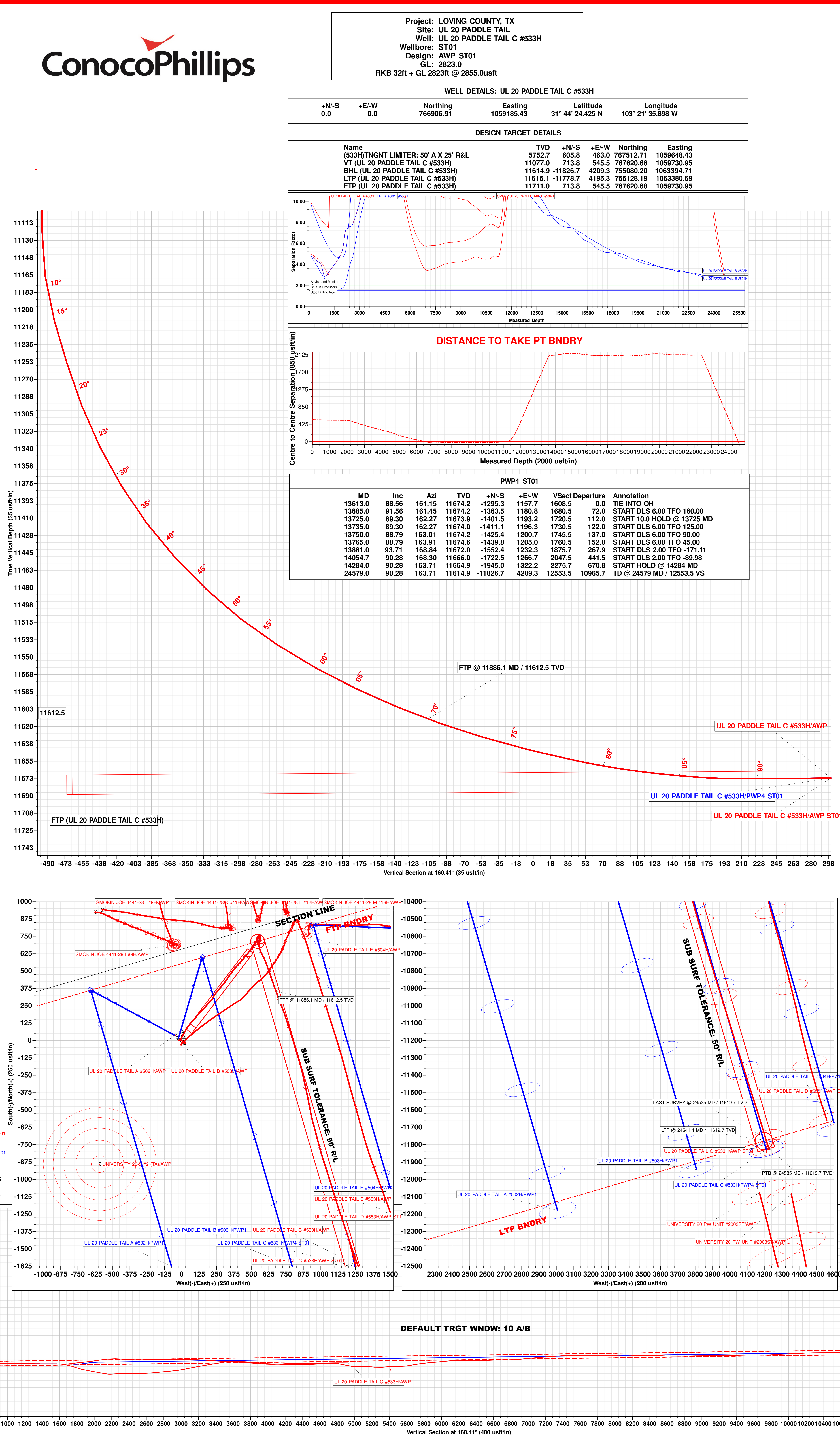
185	4700.00	11.70	39.83	4618.75	-183.57	374.10	457.67	25.00	0.93	0.00	591.11	50.74	3rd Party MSA Extra Survey
186	4725.00	12.83	39.97	4643.18	-186.14	378.17	461.08	25.00	4.52	0.00	596.33	50.64	3rd Party MSA Extra Survey
187	4750.00	13.66	40.62	4667.51	-188.87	382.54	464.79	25.00	3.37	0.00	601.97	50.54	3rd Party MSA Extra Survey
188	4775.00	14.41	41.45	4691.76	-191.70	387.11	468.77	25.00	3.11	0.00	607.95	50.45	3rd Party MSA Extra Survey
189	4800.00	15.23	41.96	4715.93	-194.62	391.89	473.02	25.00	3.32	0.00	614.27	50.36	3rd Party MSA Extra Survey
190	4825.00	15.77	42.38	4740.02	-197.61	396.84	477.51	25.00	2.21	0.00	620.88	50.27	3rd Party MSA Extra Survey
191	4850.00	16.32	43.72	4764.05	-200.62	401.89	482.22	25.00	2.65	0.00	627.74	50.19	3rd Party MSA Extra Survey
192	4875.00	16.59	44.59	4788.03	-203.57	406.97	487.16	25.00	1.46	0.00	634.78	50.12	3rd Party MSA Extra Survey
193	4900.00	17.18	46.53	4811.95	-206.44	412.05	492.34	25.00	3.26	0.00	642.02	50.07	3rd Party MSA Extra Survey
194	4925.00	17.34	46.91	4835.82	-209.23	417.13	497.74	25.00	0.78	0.00	649.42	50.04	3rd Party MSA Extra Survey
195	4950.00	17.36	47.65	4859.68	-211.97	422.19	503.22	25.00	0.89	0.00	656.87	50.00	3rd Party MSA Extra Survey
196	4975.00	17.46	47.62	4883.54	-214.67	427.23	508.75	25.00	0.40	0.00	664.34	49.98	3rd Party MSA Extra Survey
197	5000.00	17.42	48.52	4907.39	-217.33	432.24	514.32	25.00	1.09	0.00	671.83	49.96	3rd Party MSA Extra Survey
198	5025.00	17.26	48.81	4931.25	-219.90	437.16	519.92	25.00	0.73	0.00	679.28	49.94	3rd Party MSA Extra Survey
199	5050.00	17.28	49.29	4955.13	-222.41	442.02	525.52	25.00	0.58	0.00	686.70	49.93	3rd Party MSA Extra Survey
200	5075.00	16.77	49.55	4979.03	-224.84	446.79	531.08	25.00	2.06	0.00	694.02	49.93	3rd Party MSA Extra Survey
201	5100.00	16.60	49.52	5002.98	-227.21	451.44	536.54	25.00	0.68	0.00	701.20	49.92	3rd Party MSA Extra Survey
202	5125.00	16.23	49.55	5026.96	-229.55	456.03	541.92	25.00	1.48	0.00	708.26	49.92	3rd Party MSA Extra Survey
203	5150.00	15.99	49.38	5050.98	-231.85	460.54	547.19	25.00	0.98	0.00	715.20	49.91	3rd Party MSA Extra Survey
204	5175.00	15.51	49.98	5075.04	-234.07	464.93	552.36	25.00	2.03	0.00	721.99	49.91	3rd Party MSA Extra Survey
205	5200.00	15.68	49.61	5099.12	-236.27	469.27	557.49	25.00	0.79	0.00	728.71	49.91	3rd Party MSA Extra Survey
206	5225.00	14.91	50.09	5123.23	-238.41	473.52	562.53	25.00	3.12	0.00	735.30	49.91	3rd Party MSA Extra Survey
207	5250.00	14.33	48.34	5147.42	-240.53	477.64	567.31	25.00	2.92	0.00	741.61	49.90	3rd Party MSA Extra Survey
208	5275.00	13.29	43.23	5171.70	-242.85	481.79	571.59	25.00	6.41	0.00	747.56	49.87	3rd Party MSA Extra Survey
209	5300.00	12.58	40.13	5196.07	-245.40	485.97	575.32	25.00	3.97	0.00	753.09	49.81	3rd Party MSA Extra Survey
210	5325.00	12.25	38.25	5220.48	-248.06	490.13	578.71	25.00	2.09	0.00	758.38	49.74	3rd Party MSA Extra Survey
211	5350.00	12.31	37.72	5244.91	-250.79	494.32	581.99	25.00	0.51	0.00	763.58	49.66	3rd Party MSA Extra Survey
212	5375.00	12.35	37.38	5269.33	-253.56	498.55	585.24	25.00	0.33	0.00	768.80	49.57	3rd Party MSA Extra Survey
213	5400.00	12.19	37.42	5293.76	-256.33	502.78	588.47	25.00	0.64	0.00	774.00	49.49	3rd Party MSA Extra Survey
214	5425.00	12.25	37.17	5318.20	-259.10	506.98	591.67	25.00	0.32	0.00	779.17	49.41	3rd Party MSA Extra Survey
215	5450.00	12.16	36.85	5342.63	-261.88	511.21	594.85	25.00	0.45	0.00	784.33	49.32	3rd Party MSA Extra Survey
216	5475.00	12.13	36.79	5367.07	-264.67	515.42	598.01	25.00	0.13	0.00	789.47	49.24	3rd Party MSA Extra Survey
217	5500.00	12.08	36.31	5391.52	-267.47	519.63	601.13	25.00	0.45	0.00	794.59	49.16	3rd Party MSA Extra Survey
218	5525.00	12.16	36.14	5415.96	-270.30	523.86	604.23	25.00	0.35	0.00	799.70	49.08	3rd Party MSA Extra Survey
219	5550.00	12.10	36.27	5440.40	-273.13	528.10	607.33	25.00	0.26	0.00	804.82	48.99	3rd Party MSA Extra Survey
220	5575.00	12.11	36.36	5464.84	-275.95	532.32	610.44	25.00	0.09	0.00	809.94	48.91	3rd Party MSA Extra Survey
221	5600.00	12.18	36.11	5489.29	-278.78	536.57	613.55	25.00	0.35	0.00	815.07	48.83	3rd Party MSA Extra Survey
222	5625.00	12.13	36.09	5513.72	-281.63	540.82	616.65	25.00	0.20	0.00	820.21	48.75	3rd Party MSA Extra Survey
223	5650.00	12.24	35.56	5538.16	-284.50	545.10	619.74	25.00	0.63	0.00	825.35	48.67	3rd Party MSA Extra Survey
224	5675.00	12.15	35.73	5562.60	-287.39	549.39	622.81	25.00	0.39	0.00	830.50	48.58	3rd Party MSA Extra Survey
225	5700.00	12.07	35.77	5587.04	-290.26	553.65	625.88	25.00	0.32	0.00	835.61	48.50	3rd Party MSA Extra Survey
226	5725.00	11.86	35.42	5611.50	-293.10	557.86	628.89	25.00	0.89	0.00	840.66	48.43	3rd Party MSA Extra Survey
227	5750.00	11.85	34.96	5635.96	-295.94	562.06	631.85	25.00	0.38	0.00	845.67	48.35	3rd Party MSA Extra Survey
228	5775.00	11.81	34.71	5660.43	-298.81	566.27	634.78	25.00	0.26	0.00	850.65	48.27	3rd Party MSA Extra Survey
229	5800.00	11.82	35.02	5684.90	-301.67	570.47	637.71	25.00	0.26	0.00	855.63	48.19	3rd Party MSA Extra Survey
230	5825.00	11.83	34.74	5709.37	-304.53	574.67	640.64	25.00	0.23	0.00	860.62	48.11	3rd Party MSA Extra Survey
231	5850.00	11.78	34.36	5733.84	-307.41	578.88	643.54	25.00	0.37	0.00	865.59	48.03	3rd Party MSA Extra Survey
232	5875.00	11.69	34.10	5758.32	-310.30	583.08	646.40	25.00	0.42	0.00	870.53	47.95	3rd Party MSA Extra Survey
233	5900.00	11.43	33.73	5782.81	-313.16	587.24	649.19	25.00	1.08	0.00	875.39	47.87	3rd Party MSA Extra Survey
234	5925.00	11.42	33.46	5807.32	-316.02	591.37	651.93	25.00	0.22	0.00	880.19	47.79	3rd Party MSA Extra Survey
235	5950.00	11.32	33.22	5831.83	-318.88	595.48	654.64	25.00	0.44	0.00	884.96	47.71	3rd Party MSA Extra Survey
236	5975.00	11.38	32.74	5856.34	-321.76	599.61	657.32	25.00	0.45	0.00	889.72	47.63	3rd Party MSA Extra Survey
237	6000.00	11.30	32.79	5880.85	-324.66	603.74	659.98	25.00	0.32	0.00	894.47	47.55	3rd Party MSA Extra Survey
238	6025.00	11.28	33.00	5905.37	-327.53	607.85	662.64	25.00	0.18	0.00	899.21	47.47	3rd Party MSA Extra Survey
239	6050.00	11.32	32.28	5929.88	-330.42	611.98	665.28	25.00	0.59	0.00	903.95	47.39	3rd Party MSA Extra Survey
240	6075.00	11.36	31.87	5954.40	-333.36	616.14	667.89	25.00	0.36	0.00	908.69	47.31	3rd Party MSA Extra Survey
241	6100.00	11.34	31.00	5978.91	-336.35	620.34	670.46	25.00	0.69	0.00	913.42	47.22	3rd Party MSA Extra Survey
242	6125.00	11.29	30.79	6003.42	-339.37	624.55	672.98	25.00	0.26	0.00	918.13	47.14	3rd Party MSA Extra Survey
243	6150.00	11.25	30.77	6027.94	-342.38	628.75	675.48	25.00	0.16	0.00	922.82	47.05	3rd Party MSA Extra Survey
244	6175.00	11.00	30.16	6052.47	-345.37	632.91	677.92	25.00	1.11	0.00	927.44	46.97	3rd Party MSA Extra Survey
245	6200.00	10.94	29.24	6077.01	-348.37	637.04	680.28	25.00	0.74	0.00	931.99	46.88	3rd Party MSA Extra Survey
246	6225.00	10.92	28.91	6101.56	-351.40	641.18	682.58	25.00	0.26	0.00	936.50	46.79	3rd Party MSA Extra Survey
247	6250.00	10.94	28.62	6126.10	-354.46	645.34	684.86	25.00	0.23	0.00	941.01	46.70	3rd Party MSA Extra Survey
248	6275.00	10.84	28.34	6150.65	-357.51	649.49	687.12	25.00	0.45	0.00	945.50	46.61	3rd Party MSA Extra Survey
249	6300.00	10.82	28.19	6175.21	-360.57	653.63	689.34	25.00	0.14	0.00	949.96	46.52	3rd Party MSA Extra Survey
250	6325.00	10.47	27.44	6199.78	-363.60	657.71	691.50	25.00	1.51	0.00	954.33	46.43	3rd Party MSA Extra Survey
251	6350.00	10.39	26.91	6224.37	-366.61	661.74	693.56	25.00	0.50	0.00	958.61	46.35	3rd Party MSA Extra Survey
252	6375.00	10.30	25.60	6248.96	-369.64	665.76	695.55	25.00	1.01	0.00	962.82	46.25	3rd Party MSA Extra Survey

253	6400.00	10.30	24.81	6273.56	-372.73	669.81	697.45	25.00	0.57	0.00	967.00	46.16	3rd Party MSA Extra Survey
254	6425.00	10.16	24.59	6298.16	-375.82	673.84	699.31	25.00	0.58	0.00	971.13	46.06	3rd Party MSA Extra Survey
255	6450.00	10.12	24.09	6322.77	-378.90	677.85	701.12	25.00	0.39	0.00	975.22	45.97	3rd Party MSA Extra Survey
256	6475.00	10.18	23.43	6347.38	-382.02	681.88	702.90	25.00	0.52	0.00	979.30	45.87	3rd Party MSA Extra Survey
257	6500.00	10.17	22.77	6371.98	-385.18	685.94	704.63	25.00	0.47	0.00	983.37	45.77	3rd Party MSA Extra Survey
258	6525.00	10.20	22.80	6396.59	-388.37	690.02	706.34	25.00	0.12	0.00	987.45	45.67	3rd Party MSA Extra Survey
259	6550.00	9.96	22.05	6421.20	-391.54	694.07	708.01	25.00	1.09	0.00	991.47	45.57	3rd Party MSA Extra Survey
260	6575.00	9.99	21.64	6445.83	-394.70	698.08	709.62	25.00	0.31	0.00	995.43	45.47	3rd Party MSA Extra Survey
261	6600.00	9.79	21.06	6470.46	-397.87	702.08	711.19	25.00	0.89	0.00	999.35	45.37	3rd Party MSA Extra Survey
262	6625.00	9.70	20.59	6495.09	-401.01	706.04	712.69	25.00	0.48	0.00	1003.20	45.27	3rd Party MSA Extra Survey
263	6650.00	9.60	20.35	6519.74	-404.14	709.96	714.16	25.00	0.43	0.00	1007.01	45.17	3rd Party MSA Extra Survey
264	6675.00	9.45	20.09	6544.40	-407.25	713.85	715.59	25.00	0.62	0.00	1010.76	45.07	3rd Party MSA Extra Survey
265	6700.00	9.50	19.60	6569.06	-410.35	717.72	716.98	25.00	0.38	0.00	1014.49	44.97	3rd Party MSA Extra Survey
266	6725.00	9.39	19.27	6593.72	-413.47	721.59	718.35	25.00	0.49	0.00	1018.19	44.87	3rd Party MSA Extra Survey
267	6750.00	9.36	19.36	6618.38	-416.56	725.43	719.70	25.00	0.13	0.00	1021.87	44.77	3rd Party MSA Extra Survey
268	6775.00	9.48	19.59	6643.05	-419.67	729.29	721.06	25.00	0.50	0.00	1025.57	44.67	3rd Party MSA Extra Survey
269	6800.00	9.45	19.27	6667.70	-422.79	733.16	722.43	25.00	0.24	0.00	1029.29	44.58	3rd Party MSA Extra Survey
270	6825.00	9.46	19.22	6692.37	-425.92	737.04	723.78	25.00	0.05	0.00	1033.00	44.48	3rd Party MSA Extra Survey
271	6850.00	9.53	20.16	6717.02	-429.04	740.92	725.17	25.00	0.68	0.00	1036.75	44.38	3rd Party MSA Extra Survey
272	6875.00	9.77	23.25	6741.67	-432.11	744.82	726.72	25.00	2.28	0.00	1040.61	44.30	3rd Party MSA Extra Survey
273	6900.00	9.87	24.08	6766.30	-435.13	748.72	728.43	25.00	0.69	0.00	1044.60	44.21	3rd Party MSA Extra Survey
274	6925.00	9.91	24.22	6790.93	-438.15	752.64	730.19	25.00	0.19	0.00	1048.64	44.13	3rd Party MSA Extra Survey
275	6950.00	9.95	24.24	6815.56	-441.18	756.57	731.96	25.00	0.16	0.00	1052.69	44.05	3rd Party MSA Extra Survey
276	6975.00	10.01	24.35	6840.18	-444.21	760.52	733.74	25.00	0.25	0.00	1056.77	43.97	3rd Party MSA Extra Survey
277	7000.00	9.91	23.70	6864.80	-447.26	764.47	735.50	25.00	0.60	0.00	1060.84	43.89	3rd Party MSA Extra Survey
278	7025.00	9.96	23.63	6889.43	-450.32	768.42	737.23	25.00	0.21	0.00	1064.89	43.81	3rd Party MSA Extra Survey
279	7050.00	9.76	23.35	6914.06	-453.36	772.35	738.94	25.00	0.82	0.00	1068.90	43.73	3rd Party MSA Extra Survey
280	7075.00	9.75	23.10	6938.70	-456.39	776.24	740.61	25.00	0.17	0.00	1072.87	43.65	3rd Party MSA Extra Survey
281	7100.00	9.29	22.73	6963.35	-459.36	780.05	742.22	25.00	1.86	0.00	1076.74	43.58	3rd Party MSA Extra Survey
282	7125.00	9.15	22.91	6988.03	-462.24	783.74	743.77	25.00	0.57	0.00	1080.48	43.50	3rd Party MSA Extra Survey
283	7150.00	9.07	22.11	7012.71	-465.11	787.40	745.29	25.00	0.60	0.00	1084.18	43.43	3rd Party MSA Extra Survey
284	7175.00	8.86	21.74	7037.41	-467.95	791.01	746.74	25.00	0.87	0.00	1087.81	43.35	3rd Party MSA Extra Survey
285	7200.00	8.66	21.47	7062.12	-470.74	794.55	748.15	25.00	0.82	0.00	1091.34	43.28	3rd Party MSA Extra Survey
286	7225.00	8.47	21.81	7086.84	-473.48	798.01	749.52	25.00	0.79	0.00	1094.81	43.21	3rd Party MSA Extra Survey
287	7250.00	8.38	22.02	7111.57	-476.15	801.41	750.89	25.00	0.38	0.00	1098.22	43.14	3rd Party MSA Extra Survey
288	7275.00	8.31	25.82	7136.30	-478.71	804.72	752.36	25.00	2.22	0.00	1101.64	43.07	3rd Party MSA Extra Survey
289	7300.00	8.37	28.07	7161.04	-481.13	807.96	754.00	25.00	1.33	0.00	1105.13	43.02	3rd Party MSA Extra Survey
290	7325.00	8.37	28.85	7185.77	-483.49	811.15	755.73	25.00	0.45	0.00	1108.65	42.97	3rd Party MSA Extra Survey
291	7350.00	8.35	29.16	7210.51	-485.82	814.33	757.50	25.00	0.20	0.00	1112.18	42.93	3rd Party MSA Extra Survey
292	7375.00	8.10	29.22	7235.25	-488.10	817.46	759.24	25.00	1.00	0.00	1115.65	42.89	3rd Party MSA Extra Survey
293	7400.00	7.82	29.23	7260.01	-490.31	820.48	760.93	25.00	1.12	0.00	1119.02	42.84	3rd Party MSA Extra Survey
294	7425.00	7.48	28.40	7284.79	-492.45	823.39	762.53	25.00	1.43	0.00	1122.25	42.80	3rd Party MSA Extra Survey
295	7450.00	7.40	28.10	7309.58	-494.55	826.24	764.07	25.00	0.36	0.00	1125.38	42.76	3rd Party MSA Extra Survey
296	7475.00	7.14	28.06	7334.37	-496.62	829.04	765.56	25.00	1.04	0.00	1128.44	42.72	3rd Party MSA Extra Survey
297	7500.00	7.04	27.68	7359.18	-498.64	831.76	767.00	25.00	0.44	0.00	1131.42	42.68	3rd Party MSA Extra Survey
298	7525.00	6.96	27.31	7384.00	-500.65	834.47	768.41	25.00	0.37	0.00	1134.36	42.64	3rd Party MSA Extra Survey
299	7550.00	6.57	26.38	7408.82	-502.62	837.09	769.74	25.00	1.62	0.00	1137.20	42.60	3rd Party MSA Extra Survey
300	7575.00	6.55	25.93	7433.66	-504.56	839.66	770.99	25.00	0.22	0.00	1139.94	42.56	3rd Party MSA Extra Survey
301	7600.00	6.32	24.86	7458.50	-506.48	842.19	772.20	25.00	1.04	0.00	1142.61	42.52	3rd Party MSA Extra Survey
302	7625.00	6.20	25.66	7483.35	-508.36	844.65	773.36	25.00	0.59	0.00	1145.22	42.48	3rd Party MSA Extra Survey
303	7650.00	6.09	24.25	7508.21	-510.22	847.08	774.49	25.00	0.75	0.00	1147.77	42.44	3rd Party MSA Extra Survey
304	7675.00	6.16	23.46	7533.07	-512.10	849.52	775.57	25.00	0.44	0.00	1150.30	42.39	3rd Party MSA Extra Survey
305	7700.00	5.80	23.51	7557.93	-513.95	851.91	776.61	25.00	1.44	0.00	1152.76	42.35	3rd Party MSA Extra Survey
306	7725.00	5.56	22.43	7582.81	-515.73	854.18	777.57	25.00	1.05	0.00	1155.10	42.31	3rd Party MSA Extra Survey
307	7750.00	5.31	21.21	7607.70	-517.46	856.38	778.45	25.00	1.10	0.00	1157.32	42.27	3rd Party MSA Extra Survey
308	7775.00	4.92	21.28	7632.60	-519.11	858.46	779.26	25.00	1.56	0.00	1159.40	42.23	3rd Party MSA Extra Survey
309	7800.00	4.90	22.15	7657.50	-520.67	860.45	780.05	25.00	0.31	0.00	1161.40	42.19	3rd Party MSA Extra Survey
310	7825.00	4.44	20.01	7682.42	-522.18	862.35	780.79	25.00	1.97	0.00	1163.30	42.16	3rd Party MSA Extra Survey
311	7850.00	4.31	19.85	7707.35	-523.62	864.14	781.44	25.00	0.52	0.00	1165.07	42.12	3rd Party MSA Extra Survey
312	7875.00	4.23	17.72	7732.28	-525.04	865.90	782.03	25.00	0.71	0.00	1166.77	42.09	3rd Party MSA Extra Survey
313	7900.00	4.21	18.20	7757.21	-526.47	867.65	782.60	25.00	0.16	0.00	1168.45	42.05	3rd Party MSA Extra Survey
314	7925.00	3.74	18.59	7782.15	-527.81	869.30	783.15	25.00	1.88	0.00	1170.04	42.02	3rd Party MSA Extra Survey
315	7950.00	3.72	18.40	7807.10	-529.06	870.84	783.66	25.00	0.09	0.00	1171.53	41.98	3rd Party MSA Extra Survey
316	7975.00	3.48	18.06	7832.05	-530.27	872.33	784.16	25.00	0.96	0.00	1172.97	41.95	3rd Party MSA Extra Survey
317	8000.00	3.28	19.45	7857.01	-531.40	873.72	784.63	25.00	0.86	0.00	1174.32	41.92	3rd Party MSA Extra Survey
318	8025.00	3.15	19.02	7881.97	-532.47	875.05	785.09	25.00	0.53	0.00	1175.62	41.90	3rd Party MSA Extra Survey
319	8050.00	3.00	16.77	7906.93	-533.51	876.32	785.50	25.00	0.77	0.00	1176.84	41.87	3rd Party MSA Extra Survey
320	8075.00	2.89	23.18	7931.90	-534.48	877.53	785.94	25.00	1.39	0.00	1178.03	41.85	3rd Party MSA Extra Survey

321	8100.00	2.53	40.28	7956.87	-535.19	878.53	786.55	25.00	3.52	0.00	1179.18	41.84	3rd Party MSA Extra Survey
322	8125.00	2.51	55.68	7981.85	-535.58	879.26	787.35	25.00	2.70	0.00	1180.26	41.84	3rd Party MSA Extra Survey
323	8150.00	2.37	61.43	8006.82	-535.77	879.82	788.26	25.00	1.13	0.00	1181.28	41.86	3rd Party MSA Extra Survey
324	8175.00	2.32	62.33	8031.80	-535.89	880.30	789.16	25.00	0.25	0.00	1182.24	41.88	3rd Party MSA Extra Survey
325	8200.00	2.26	64.24	8056.78	-535.99	880.75	790.05	25.00	0.39	0.00	1183.17	41.89	3rd Party MSA Extra Survey
326	8225.00	2.23	65.45	8081.76	-536.06	881.16	790.94	25.00	0.22	0.00	1184.08	41.91	3rd Party MSA Extra Survey
327	8250.00	2.01	63.74	8106.75	-536.13	881.56	791.78	25.00	0.92	0.00	1184.93	41.93	3rd Party MSA Extra Survey
328	8275.00	1.99	66.62	8131.73	-536.18	881.93	792.57	25.00	0.41	0.00	1185.73	41.95	3rd Party MSA Extra Survey
329	8300.00	1.95	63.76	8156.72	-536.24	882.29	793.35	25.00	0.42	0.00	1186.52	41.96	3rd Party MSA Extra Survey
330	8325.00	1.84	65.41	8181.70	-536.30	882.64	794.09	25.00	0.49	0.00	1187.28	41.98	3rd Party MSA Extra Survey
331	8350.00	1.88	67.45	8206.69	-536.33	882.97	794.84	25.00	0.31	0.00	1188.02	41.99	3rd Party MSA Extra Survey
332	8375.00	1.88	72.19	8231.68	-536.32	883.25	795.61	25.00	0.62	0.00	1188.75	42.01	3rd Party MSA Extra Survey
333	8400.00	1.98	91.28	8256.66	-536.13	883.36	796.43	25.00	2.59	0.00	1189.38	42.04	3rd Party MSA Extra Survey
334	8425.00	2.15	106.61	8281.65	-535.68	883.22	797.31	25.00	2.30	0.00	1189.87	42.07	3rd Party MSA Extra Survey
335	8450.00	2.22	110.59	8306.63	-535.07	882.92	798.21	25.00	0.67	0.00	1190.25	42.12	3rd Party MSA Extra Survey
336	8475.00	2.23	110.43	8331.61	-534.42	882.58	799.12	25.00	0.05	0.00	1190.60	42.16	3rd Party MSA Extra Survey
337	8500.00	2.20	112.97	8356.59	-533.76	882.22	800.02	25.00	0.41	0.00	1190.94	42.20	3rd Party MSA Extra Survey
338	8525.00	1.93	112.25	8381.57	-533.14	881.87	800.85	25.00	1.08	0.00	1191.24	42.24	3rd Party MSA Extra Survey
339	8550.00	1.87	112.68	8406.56	-532.57	881.56	801.62	25.00	0.25	0.00	1191.52	42.28	3rd Party MSA Extra Survey
340	8575.00	1.79	112.58	8431.55	-532.02	881.25	802.35	25.00	0.32	0.00	1191.79	42.32	3rd Party MSA Extra Survey
341	8600.00	1.69	114.73	8456.54	-531.48	880.94	803.05	25.00	0.48	0.00	1192.04	42.35	3rd Party MSA Extra Survey
342	8625.00	1.67	116.27	8481.52	-530.95	880.63	803.71	25.00	0.20	0.00	1192.25	42.39	3rd Party MSA Extra Survey
343	8650.00	1.54	114.49	8506.51	-530.44	880.33	804.34	25.00	0.56	0.00	1192.45	42.42	3rd Party MSA Extra Survey
344	8675.00	1.51	116.74	8531.51	-529.95	880.04	804.94	25.00	0.27	0.00	1192.65	42.45	3rd Party MSA Extra Survey
345	8700.00	1.32	117.59	8556.50	-529.49	879.76	805.49	25.00	0.76	0.00	1192.81	42.48	3rd Party MSA Extra Survey
346	8725.00	1.33	118.63	8581.49	-529.06	879.49	806.00	25.00	0.10	0.00	1192.95	42.50	3rd Party MSA Extra Survey
347	8750.00	1.21	118.90	8606.49	-528.63	879.22	806.49	25.00	0.48	0.00	1193.08	42.53	3rd Party MSA Extra Survey
348	8775.00	1.07	126.24	8631.48	-528.23	878.95	806.91	25.00	0.81	0.00	1193.17	42.55	3rd Party MSA Extra Survey
349	8800.00	0.98	124.10	8656.48	-527.86	878.70	807.27	25.00	0.39	0.00	1193.23	42.57	3rd Party MSA Extra Survey
350	8825.00	0.88	120.24	8681.47	-527.53	878.48	807.62	25.00	0.47	0.00	1193.30	42.59	3rd Party MSA Extra Survey
351	8850.00	0.86	127.28	8706.47	-527.22	878.27	807.93	25.00	0.43	0.00	1193.36	42.61	3rd Party MSA Extra Survey
352	8875.00	0.71	138.39	8731.47	-526.92	878.04	808.18	25.00	0.85	0.00	1193.36	42.63	3rd Party MSA Extra Survey
353	8900.00	0.68	138.54	8756.47	-526.64	877.81	808.38	25.00	0.12	0.00	1193.33	42.64	3rd Party MSA Extra Survey
354	8925.00	0.73	139.46	8781.46	-526.35	877.58	808.59	25.00	0.21	0.00	1193.30	42.66	3rd Party MSA Extra Survey
355	8950.00	0.63	142.37	8806.46	-526.06	877.35	808.77	25.00	0.42	0.00	1193.26	42.67	3rd Party MSA Extra Survey
356	8975.00	0.62	142.43	8831.46	-525.80	877.14	808.94	25.00	0.04	0.00	1193.21	42.68	3rd Party MSA Extra Survey
357	9000.00	0.53	151.01	8856.46	-525.56	876.93	809.08	25.00	0.50	0.00	1193.15	42.70	3rd Party MSA Extra Survey
358	9025.00	0.50	150.99	8881.46	-525.34	876.73	809.19	25.00	0.12	0.00	1193.08	42.71	3rd Party MSA Extra Survey
359	9050.00	0.46	158.71	8906.46	-525.13	876.54	809.28	25.00	0.30	0.00	1193.00	42.72	3rd Party MSA Extra Survey
360	9075.00	0.30	164.20	8931.46	-524.96	876.38	809.33	25.00	0.66	0.00	1192.92	42.72	3rd Party MSA Extra Survey
361	9100.00	0.20	142.49	8956.46	-524.85	876.29	809.38	25.00	0.54	0.00	1192.88	42.73	3rd Party MSA Extra Survey
362	9125.00	0.19	105.97	8981.46	-524.79	876.24	809.44	25.00	0.49	0.00	1192.89	42.73	3rd Party MSA Extra Survey
363	9150.00	0.18	104.74	9006.46	-524.74	876.22	809.52	25.00	0.04	0.00	1192.93	42.73	3rd Party MSA Extra Survey
364	9175.00	0.15	110.79	9031.46	-524.69	876.20	809.59	25.00	0.14	0.00	1192.96	42.74	3rd Party MSA Extra Survey
365	9200.00	0.21	103.63	9056.46	-524.65	876.18	809.66	25.00	0.26	0.00	1193.00	42.74	3rd Party MSA Extra Survey
366	9225.00	0.33	111.82	9081.46	-524.57	876.14	809.77	25.00	0.50	0.00	1193.04	42.75	3rd Party MSA Extra Survey
367	9250.00	0.30	138.86	9106.46	-524.46	876.06	809.88	25.00	0.60	0.00	1193.06	42.75	3rd Party MSA Extra Survey
368	9275.00	0.37	143.80	9131.46	-524.32	875.95	809.98	25.00	0.30	0.00	1193.04	42.76	3rd Party MSA Extra Survey
369	9300.00	0.35	147.94	9156.45	-524.17	875.82	810.06	25.00	0.13	0.00	1193.00	42.77	3rd Party MSA Extra Survey
370	9325.00	0.46	161.61	9181.45	-523.99	875.66	810.14	25.00	0.58	0.00	1192.94	42.77	3rd Party MSA Extra Survey
371	9350.00	0.47	161.09	9206.45	-523.79	875.47	810.20	25.00	0.04	0.00	1192.84	42.78	3rd Party MSA Extra Survey
372	9375.00	0.46	151.10	9231.45	-523.59	875.28	810.28	25.00	0.33	0.00	1192.76	42.79	3rd Party MSA Extra Survey
373	9400.00	0.52	152.95	9256.45	-523.38	875.09	810.38	25.00	0.25	0.00	1192.69	42.80	3rd Party MSA Extra Survey
374	9425.00	0.51	148.36	9281.45	-523.15	874.90	810.49	25.00	0.17	0.00	1192.62	42.81	3rd Party MSA Extra Survey
375	9450.00	0.58	126.48	9306.45	-522.94	874.73	810.65	25.00	0.87	0.00	1192.60	42.82	3rd Party MSA Extra Survey
376	9475.00	0.53	131.53	9331.45	-522.73	874.57	810.84	25.00	0.28	0.00	1192.62	42.83	3rd Party MSA Extra Survey
377	9500.00	0.35	151.59	9356.45	-522.55	874.43	810.96	25.00	0.94	0.00	1192.60	42.84	3rd Party MSA Extra Survey
378	9525.00	0.20	140.53	9381.45	-522.43	874.33	811.03	25.00	0.63	0.00	1192.57	42.85	3rd Party MSA Extra Survey
379	9550.00	0.44	82.27	9406.45	-522.37	874.31	811.15	25.00	1.50	0.00	1192.64	42.85	3rd Party MSA Extra Survey
380	9558.00	0.56	76.78	9414.45	-522.36	874.32	811.22	8.00	1.61	0.00	1192.69	42.86	3rd Party MSA Extra Survey
381	9585.00	0.69	116.64	9441.45	-522.22	874.28	811.49	27.00	1.64	0.00	1192.85	42.87	MWD Run 3
382	9676.00	1.22	140.10	9532.43	-520.89	873.29	812.60	91.00	0.71	0.00	1192.88	42.94	MWD Run 3
383	9717.00	1.72	148.87	9573.42	-519.87	872.43	813.20	41.00	1.33	0.00	1192.66	42.99	MWD Run 3
384	9811.00	2.86	169.20	9667.34	-516.18	868.92	814.37	94.00	1.47	123.80	1190.89	43.14	MWD Run 3
385	9856.00	3.41	174.39	9712.28	-513.79	866.49	814.71	45.00	1.37	120.20	1189.35	43.24	MWD Run 3
386	9902.00	8.88	160.27	9758.00	-508.92	861.78	816.04	46.00	12.25	123.80	1186.84	43.44	MWD Run 3
387	9947.00	17.13	159.39	9801.81	-498.80	852.29	819.55	45.00	18.33	123.80	1182.40	43.88	MWD Run 3
388	9993.00	26.70	157.10	9844.43	-481.66	836.40	825.98	46.00	20.89	131.00	1175.50	44.64	MWD Run 3

389	10038.00	34.12	156.33	9883.22	-458.91	815.50	834.99	45.00	16.52	131.00	1167.15	45.68	MWD Run 3
390	10083.00	37.64	155.77	9919.67	-432.57	791.40	845.70	45.00	7.86	134.60	1158.24	46.90	MWD Run 3
391	10128.00	40.03	158.76	9954.72	-404.37	765.37	856.59	45.00	6.74	134.60	1148.71	48.22	MWD Run 3
392	10174.00	40.67	160.15	9989.78	-374.59	737.48	867.04	46.00	2.40	136.40	1138.26	49.62	MWD Run 3
393	10219.00	44.89	162.64	10022.80	-344.07	708.52	876.76	45.00	10.10	136.40	1127.25	51.06	MWD Run 3
394	10264.00	46.40	163.93	10054.26	-312.00	677.70	886.00	45.00	3.93	136.40	1115.47	52.59	MWD Run 3
395	10310.00	51.55	162.81	10084.44	-277.41	644.47	895.95	46.00	11.34	138.20	1103.65	54.27	MWD Run 3
396	10355.00	52.96	162.45	10111.99	-241.91	610.51	906.57	45.00	3.20	138.20	1092.97	56.04	MWD Run 3
397	10401.00	57.61	161.69	10138.18	-204.17	574.54	918.21	46.00	10.20	140.00	1083.15	57.97	MWD Run 3
398	10446.00	58.31	161.67	10162.05	-166.07	538.33	930.20	45.00	1.54	140.00	1074.74	59.94	MWD Run 3
399	10492.00	61.45	162.85	10185.14	-126.36	500.44	942.31	46.00	7.18	140.00	1066.95	62.03	MWD Run 3
400	10538.00	62.85	163.12	10206.63	-85.80	461.55	954.21	46.00	3.09	140.00	1059.97	64.19	MWD Run 3
401	10583.00	64.97	162.99	10226.42	-45.50	422.89	965.99	45.00	4.72	140.00	1054.50	66.36	MWD Run 3
402	10628.00	68.03	162.71	10244.36	-4.33	383.46	978.16	45.00	6.82	141.80	1050.63	68.59	MWD Run 3
403	10674.00	70.34	163.61	10260.70	38.54	342.31	990.61	46.00	5.33	140.00	1048.08	70.94	MWD Run 3
404	10719.00	72.91	163.82	10274.89	81.08	301.32	1002.58	45.00	5.74	143.60	1046.89	73.27	MWD Run 3
405	10765.00	75.54	162.86	10287.39	125.21	258.92	1015.28	46.00	6.05	141.80	1047.77	75.69	MWD Run 3
406	10810.00	78.98	162.18	10297.32	169.00	217.06	1028.46	45.00	7.80	143.60	1051.12	78.08	MWD Run 3
407	10855.00	82.64	162.03	10304.50	213.35	174.79	1042.11	45.00	8.14	141.80	1056.67	80.48	MWD Run 3
408	10946.00	90.27	162.02	10310.12	303.97	88.47	1070.13	91.00	8.38	143.60	1073.78	85.27	MWD Run 3
409	10983.00	92.99	162.42	10309.07	340.88	53.25	1081.42	37.00	7.43	136.40	1082.73	87.18	MWD Run 4
410	11074.00	93.80	163.09	10303.69	431.51	-33.51	1108.35	91.00	1.16	141.80	1108.85	91.73	MWD Run 4
411	11164.00	90.80	164.66	10300.07	521.07	-119.88	1133.32	90.00	3.76	145.40	1139.64	96.04	MWD Run 4
412	11255.00	89.29	164.96	10300.01	611.58	-207.70	1157.17	91.00	1.70	149.00	1175.66	100.18	MWD Run 4
413	11346.00	89.37	164.77	10301.08	702.07	-295.54	1180.93	91.00	0.22	150.80	1217.34	104.05	MWD Run 4
414	11436.00	88.64	164.25	10302.64	791.61	-382.25	1204.96	90.00	0.99	150.80	1264.14	107.60	MWD Run 4
415	11527.00	87.24	164.37	10305.91	882.13	-469.80	1229.55	91.00	1.55	154.40	1316.25	110.91	MWD Run 4
416	11617.00	87.52	164.29	10310.03	971.63	-556.37	1253.84	90.00	0.32	156.20	1371.73	113.93	MWD Run 4
417	11708.00	88.47	164.46	10313.21	1062.14	-643.95	1278.33	91.00	1.06	158.00	1431.36	116.74	MWD Run 4
418	11798.00	87.10	163.13	10316.69	1151.73	-730.31	1303.42	90.00	2.13	152.60	1494.08	119.26	MWD Run 4
419	11889.00	89.09	160.64	10319.71	1242.54	-816.73	1331.71	91.00	3.50	158.00	1562.21	121.52	MWD Run 4
420	11980.00	88.61	160.51	10321.54	1333.48	-902.53	1361.97	91.00	0.54	163.40	1633.87	123.53	MWD Run 4
421	12071.00	88.11	160.16	10324.14	1424.41	-988.19	1392.58	91.00	0.67	161.60	1707.57	125.36	MWD Run 4
422	12161.00	88.25	159.74	10327.00	1514.35	-1072.70	1423.41	90.00	0.49	163.40	1782.35	127.00	MWD Run 4
423	12252.00	88.14	159.80	10329.87	1605.29	-1158.04	1454.87	91.00	0.14	165.20	1859.49	128.52	MWD Run 4
424	12343.00	87.60	159.36	10333.26	1696.22	-1243.26	1486.59	91.00	0.75	165.20	1937.95	129.91	MWD Run 4
425	12434.00	90.01	160.49	10335.15	1787.18	-1328.71	1517.82	91.00	2.92	163.40	2017.24	131.20	MWD Run 4
426	12525.00	90.88	162.29	10334.44	1878.08	-1414.94	1546.86	91.00	2.20	167.00	2096.39	132.45	MWD Run 4
427	12615.00	91.56	162.28	10332.52	1967.90	-1500.65	1574.24	90.00	0.75	168.80	2174.90	133.63	MWD Run 4
428	12706.00	93.66	162.87	10328.38	2058.60	-1587.38	1601.47	91.00	2.40	168.80	2254.88	134.75	MWD Run 4
429	12797.00	91.81	162.05	10324.05	2149.31	-1674.05	1628.86	91.00	2.23	165.20	2335.73	135.78	MWD Run 4
430	12888.00	88.56	162.77	10323.76	2240.12	-1760.78	1656.36	91.00	3.66	168.80	2417.41	136.75	MWD Run 4
431	12979.00	89.37	164.56	10325.40	2330.78	-1848.09	1681.95	91.00	2.17	167.00	2498.87	137.69	MWD Run 4
432	13069.00	88.02	165.72	10327.45	2420.20	-1935.05	1705.02	90.00	1.97	170.60	2579.05	138.62	MWD Run 4
433	13160.00	88.30	165.54	10330.37	2510.52	-2023.16	1727.60	91.00	0.37	172.40	2660.41	139.51	MWD Run 4
434	13251.00	87.69	164.90	10333.55	2600.90	-2111.09	1750.81	91.00	0.97	170.60	2742.63	140.33	MWD Run 4
435	13341.00	88.05	164.67	10336.89	2690.35	-2197.88	1774.41	90.00	0.47	170.60	2824.74	141.09	MWD Run 4
436	13432.00	85.83	164.68	10341.74	2780.74	-2285.51	1798.42	91.00	2.44	168.80	2908.24	141.80	MWD Run 4
437	13522.00	90.94	167.34	10344.28	2869.96	-2372.77	1820.16	90.00	6.40	170.60	2990.49	142.51	MWD Run 4
438	13613.00	90.41	166.96	10343.21	2960.00	-2461.48	1840.40	91.00	0.72	172.40	3073.43	143.22	MWD Run 4
439	13703.00	88.67	165.73	10343.94	3049.22	-2548.93	1861.65	90.00	2.36	168.80	3156.39	143.86	MWD Run 4
440	13794.00	90.38	165.90	10344.69	3139.54	-2637.15	1883.96	91.00	1.89	170.60	3240.96	144.46	MWD Run 4
441	13885.00	92.42	166.21	10342.47	3229.79	-2725.43	1905.89	91.00	2.27	174.20	3325.71	145.04	MWD Run 4
442	13975.00	91.19	165.17	10339.63	3319.09	-2812.59	1928.12	90.00	1.79	176.00	3410.03	145.57	MWD Run 4
443	14066.00	91.58	165.15	10337.43	3409.51	-2900.53	1951.42	91.00	0.43	172.40	3495.87	146.07	MWD Run 4
444	14156.00	92.23	164.76	10334.43	3498.95	-2987.40	1974.77	90.00	0.83	176.00	3581.10	146.53	MWD Run 4
445	14247.00	92.51	164.47	10330.67	3589.41	-3075.06	1998.89	91.00	0.44	177.80	3667.64	146.97	MWD Run 4
446	14338.00	94.81	165.11	10324.87	3679.72	-3162.69	2022.72	91.00	2.62	177.80	3754.20	147.40	MWD Run 4
447	14429.00	94.14	164.60	10317.77	3769.95	-3250.26	2046.43	91.00	0.93	176.00	3840.84	147.80	MWD Run 4
448	14520.00	93.16	163.06	10311.99	3860.41	-3337.48	2071.72	91.00	2.00	177.80	3928.20	148.17	MWD Run 4
449	14610.00	90.07	161.66	10309.45	3950.19	-3423.20	2098.98	90.00	3.76	174.20	4015.47	148.48	MWD Run 4
450	14701.00	88.61	161.05	10310.50	4041.10	-3509.41	2128.07	91.00	1.74	177.80	4104.23	148.77	MWD Run 4
451	14792.00	88.22	160.72	10313.01	4132.00	-3595.36	2157.87	91.00	0.56	177.80	4193.21	149.03	MWD Run 4
452	14882.00	88.75	160.39	10315.39	4221.93	-3680.20	2187.82	90.00	0.69	176.00	4281.40	149.27	MWD Run 4
453	14973.00	89.93	160.08	10316.44	4312.90	-3765.83	2218.58	91.00	1.34	179.60	4370.76	149.50	MWD Run 4
454	15064.00	89.37	159.22	10316.99	4403.88	-3851.15	2250.22	91.00	1.13	179.60	4460.36	149.70	MWD Run 4
455	15155.00	89.01	158.97	10318.28	4494.87	-3936.15	2282.69	91.00	0.49	174.20	4550.16	149.89	MWD Run 4
456	15246.00	88.39	162.89	10320.35	4585.77	-4022.11	2312.42	91.00	4.36	176.00	4639.47	150.10	MWD Run 4

457	15337.00	87.43	162.44	10323.67	4676.51	-4108.92	2339.51	91.00	1.16	177.80	4728.27	150.34	MWD Run 4
458	15428.00	86.71	165.11	10328.32	4767.04	-4196.17	2364.90	91.00	3.04	174.20	4816.70	150.60	MWD Run 4
459	15519.00	86.31	166.54	10333.86	4857.19	-4284.24	2387.15	91.00	1.62	177.80	4904.40	150.87	MWD Run 4
460	15610.00	86.54	167.41	10339.53	4947.10	-4372.72	2407.62	91.00	0.98	176.00	4991.72	151.16	MWD Run 4
461	15701.00	89.54	168.88	10342.65	5036.83	-4461.72	2426.30	91.00	3.67	179.60	5078.76	151.46	MWD Run 4
462	15791.00	93.10	168.35	10340.58	5125.48	-4549.91	2444.05	90.00	4.00	177.80	5164.79	151.76	MWD Run 4
463	15882.00	95.66	169.06	10333.63	5214.87	-4638.88	2461.82	91.00	2.91	181.40	5251.64	152.05	MWD Run 4
464	15973.00	94.76	165.98	10325.37	5304.44	-4727.35	2481.40	91.00	3.51	181.40	5339.02	152.30	MWD Run 4
465	16064.00	96.25	162.28	10316.64	5394.61	-4814.46	2506.17	91.00	4.37	179.60	5427.70	152.50	MWD Run 4
466	16154.00	91.13	160.61	10310.85	5484.30	-4899.57	2534.74	90.00	5.97	185.00	5516.40	152.65	MWD Run 4
467	16245.00	91.53	160.55	10308.74	5575.23	-4985.37	2565.00	91.00	0.44	181.40	5606.52	152.77	MWD Run 4
468	16336.00	86.73	159.34	10310.12	5666.18	-5070.81	2596.19	91.00	5.43	185.00	5696.78	152.89	MWD Run 4
469	16427.00	86.45	160.07	10315.53	5757.01	-5156.02	2627.69	91.00	0.86	185.00	5786.99	152.99	MWD Run 4
470	16518.00	87.69	161.98	10320.17	5847.81	-5241.95	2657.23	91.00	2.50	179.60	5876.99	153.12	MWD Run 4
471	16608.00	88.42	164.21	10323.23	5937.51	-5328.01	2683.38	90.00	2.60	188.60	5965.59	153.27	MWD Run 4
472	16700.00	91.84	165.94	10323.03	6028.94	-5416.89	2707.07	92.00	4.17	185.00	6055.65	153.45	MWD Run 4
473	16790.00	91.69	165.81	10320.26	6118.22	-5504.13	2729.03	90.00	0.21	186.80	6143.53	153.63	MWD Run 4
474	16882.00	92.14	164.91	10317.18	6209.57	-5593.09	2752.26	92.00	1.10	188.60	6233.59	153.80	MWD Run 4
475	16972.00	90.91	164.00	10314.78	6299.10	-5679.76	2776.38	90.00	1.70	188.60	6322.02	153.95	MWD Run 4
476	17063.00	89.59	160.85	10314.38	6389.91	-5766.50	2803.86	91.00	3.75	186.80	6412.03	154.07	MWD Run 4
477	17153.00	88.87	159.90	10315.59	6479.87	-5851.26	2834.09	90.00	1.33	188.60	6501.49	154.16	MWD Run 4
478	17243.00	87.97	159.59	10318.07	6569.82	-5935.66	2865.24	90.00	1.05	190.40	6591.03	154.23	MWD Run 4
479	17334.00	90.49	161.35	10319.30	6660.77	-6021.41	2895.65	91.00	3.38	188.60	6681.48	154.32	MWD Run 4
480	17425.00	91.81	163.73	10317.47	6751.55	-6108.19	2922.94	91.00	2.99	188.60	6771.53	154.43	MWD Run 4
481	17515.00	92.06	163.78	10314.44	6841.16	-6194.55	2948.10	90.00	0.28	190.40	6860.30	154.55	MWD Run 4
482	17605.00	92.20	164.00	10311.09	6930.75	-6280.96	2973.05	90.00	0.28	192.20	6949.06	154.67	MWD Run 4
483	17696.00	93.04	164.07	10306.93	7021.28	-6368.36	2998.06	91.00	0.93	186.80	7038.77	154.79	MWD Run 4
484	17786.00	92.23	163.67	10302.80	7110.84	-6454.72	3023.03	90.00	1.01	185.00	7127.56	154.90	MWD Run 4
485	17876.00	90.94	162.78	10300.31	7200.54	-6540.85	3049.00	90.00	1.74	186.80	7216.59	155.01	MWD Run 4
486	17967.00	88.61	162.72	10300.67	7291.32	-6627.75	3075.98	91.00	2.56	165.20	7306.76	155.10	MWD Run 5
487	18058.00	88.08	163.60	10303.30	7382.02	-6714.82	3102.33	91.00	1.12	168.80	7396.84	155.20	MWD Run 5
488	18148.00	87.80	166.27	10306.53	7471.44	-6801.66	3125.71	90.00	2.98	174.20	7485.49	155.32	MWD Run 5
489	18239.00	87.94	165.71	10309.91	7561.67	-6889.89	3147.73	91.00	0.63	176.00	7574.88	155.45	MWD Run 5
490	18329.00	87.88	166.07	10313.19	7650.93	-6977.11	3169.66	90.00	0.40	177.80	7663.34	155.57	MWD Run 5
491	18420.00	87.89	166.29	10316.55	7741.12	-7065.42	3191.38	91.00	0.25	172.40	7752.75	155.69	MWD Run 5
492	18511.00	87.44	166.71	10320.27	7831.23	-7153.83	3212.61	91.00	0.68	174.20	7842.07	155.82	MWD Run 5
493	18601.00	87.24	166.75	10324.45	7920.28	-7241.33	3233.24	90.00	0.22	176.00	7930.37	155.94	MWD Run 5
494	18692.00	88.19	165.18	10328.07	8010.50	-7329.54	3255.30	91.00	2.01	172.40	8019.92	156.05	MWD Run 5
495	18782.00	90.29	164.93	10329.26	8099.96	-7416.48	3278.51	90.00	2.35	179.60	8108.81	156.15	MWD Run 5
496	18873.00	90.21	165.23	10328.86	8190.41	-7504.41	3301.94	91.00	0.34	181.40	8198.72	156.25	MWD Run 5
497	18963.00	91.84	165.92	10327.25	8279.77	-7591.56	3324.36	90.00	1.96	183.20	8287.53	156.35	MWD Run 5
498	19054.00	92.51	165.52	10323.80	8370.05	-7679.68	3346.79	91.00	0.86	179.60	8377.26	156.45	MWD Run 5
499	19144.00	90.88	163.95	10321.14	8459.53	-7766.46	3370.48	90.00	2.51	183.20	8466.29	156.54	MWD Run 5
500	19235.00	91.64	164.04	10319.14	8550.14	-7853.91	3395.57	91.00	0.84	186.80	8556.51	156.62	MWD Run 5
501	19325.00	92.82	164.73	10315.64	8639.64	-7940.52	3419.77	90.00	1.52	0.00	8645.62	156.70	MWD Run 5
502	19416.00	92.62	164.73	10311.33	8730.06	-8028.21	3443.70	91.00	0.21	188.60	8735.63	156.78	MWD Run 5
503	19507.00	93.07	166.09	10306.81	8820.35	-8116.17	3466.59	91.00	1.56	0.00	8825.50	156.87	MWD Run 5
504	19597.00	93.15	164.72	10301.93	8909.62	-8203.13	3489.24	90.00	1.52	186.80	8914.38	156.96	MWD Run 5
505	19688.00	94.53	164.20	10295.83	8999.98	-8290.61	3513.56	91.00	1.61	185.00	9004.41	157.03	MWD Run 5
506	19779.00	92.85	164.36	10289.98	9090.37	-8378.02	3538.16	91.00	1.86	185.00	9094.49	157.10	MWD Run 5
507	19869.00	91.58	164.77	10286.51	9179.85	-8464.71	3562.09	90.00	1.47	181.40	9183.67	157.18	MWD Run 5
508	19960.00	94.22	165.51	10281.90	9270.18	-8552.55	3585.39	91.00	3.01	186.80	9273.68	157.26	MWD Run 5
509	20050.00	92.03	163.73	10277.00	9359.58	-8639.19	3609.23	90.00	3.13	188.60	9362.80	157.33	MWD Run 5
510	20141.00	90.77	163.77	10274.77	9450.21	-8726.52	3634.68	91.00	1.39	186.80	9453.21	157.39	MWD Run 5
511	20231.00	89.48	163.34	10274.57	9539.90	-8812.84	3660.16	90.00	1.51	188.60	9542.69	157.45	MWD Run 5
512	20322.00	89.62	163.15	10275.28	9630.63	-8899.97	3686.39	91.00	0.26	0.00	9633.22	157.50	MWD Run 5
513	20412.00	91.44	162.50	10274.45	9720.40	-8985.95	3712.97	90.00	2.15	190.40	9722.83	157.55	MWD Run 5
514	20503.00	89.31	161.73	10273.85	9811.25	-9072.55	3740.91	91.00	2.49	192.20	9813.54	157.59	MWD Run 5
515	20593.00	86.73	161.51	10276.95	9901.08	-9157.90	3769.28	90.00	2.88	192.20	9903.26	157.63	MWD Run 5
516	20684.00	86.23	161.90	10282.53	9991.79	-9244.13	3797.79	91.00	0.70	195.80	9993.86	157.67	MWD Run 5
517	20775.00	85.53	162.04	10289.07	10082.42	-9330.44	3825.89	91.00	0.79	197.60	10084.37	157.70	MWD Run 5
518	20866.00	85.05	161.69	10296.55	10172.99	-9416.62	3854.13	91.00	0.65	194.00	10174.82	157.74	MWD Run 5
519	20956.00	89.48	163.43	10300.84	10262.67	-9502.36	3881.07	90.00	5.29	195.80	10264.38	157.78	MWD Run 5
520	21047.00	88.92	163.96	10302.11	10353.33	-9589.69	3906.61	91.00	0.85	197.60	10354.89	157.84	MWD Run 5
521	21137.00	92.42	164.71	10301.05	10442.90	-9676.33	3930.91	90.00	3.98	197.60	10444.30	157.89	MWD Run 5
522	21294.00	92.42	164.71	10294.42	10598.93	-9827.63	3972.28	157.00	0.00	0.00	10600.07	157.99	MWD Run 5





Directional Survey Report

Company: **ConocoPhillips Company**
 Well: **UL 20 Paddle Tail D #553H ST01**
 County: **Loving**
 State: **Texas**
 Field: **Phantom (Wolfcamp)**
 API: **42301360810100**
 Rig: **Nabors X04**
 Service Co: **Gordon Technologies LLC**
 Job #: **GT230049**
 Survey Calc: **Minimum Curvature**

Well Surface Location
 Latitude: **31.740070**
 Longitude: **-103.359893**
 Reference: **NAD 1927**
 Y (Northing): **766888.92**
 X (Easting): **1059209.44**
 Field Engr: **Michael Barrett**
Onyeka Nwachukwu

Report Date: **Feb 16 2023**
 Time: **13:02**
 Mag Reference: **Grid North**
 Mag Correction: **8.05**
 Vert Sect. Azi: **158.83**
 Perm Datum: **Mean Sea Level**
 Depth Ref: **Rotary Table**
 RKB Height: **32**
 GL Elev: **2823**

Survey Tie In	MD	Inc	Azimuth	TVD	VS	Rectangular Offsets		Course		Temp	Closure		Source
						NS	EW	Length	DLS		Distance	Azimuth	
1	100.00	0.73	305.15	100.00	-0.53	0.37	-0.52	100.00	0.73	0.00	0.64	305.15	
2	125.00	0.83	303.21	124.99	-0.81	0.56	-0.80	25.00	0.41	0.00	0.98	304.79	
3	150.00	0.76	305.67	149.99	-1.10	0.75	-1.09	25.00	0.31	0.00	1.32	304.68	
4	175.00	0.66	300.57	174.99	-1.35	0.92	-1.35	25.00	0.47	0.00	1.63	304.42	
5	200.00	0.62	310.38	199.99	-1.58	1.08	-1.57	25.00	0.47	0.00	1.91	304.55	
6	225.00	0.66	315.07	224.99	-1.83	1.27	-1.78	25.00	0.26	0.00	2.19	305.60	
7	250.00	0.86	311.06	249.99	-2.13	1.50	-2.02	25.00	0.83	0.00	2.52	306.55	
8	275.00	0.85	305.28	274.98	-2.45	1.73	-2.32	25.00	0.35	0.00	2.89	306.76	
9	300.00	0.84	306.71	299.98	-2.76	1.95	-2.61	25.00	0.09	0.00	3.26	306.67	
10	325.00	0.82	297.08	324.98	-3.05	2.14	-2.92	25.00	0.56	0.00	3.62	306.20	
11	350.00	0.89	292.32	349.97	-3.31	2.29	-3.26	25.00	0.40	0.00	3.98	305.12	
12	375.00	0.82	294.52	374.97	-3.58	2.44	-3.60	25.00	0.31	0.00	4.35	304.12	
13	400.00	0.76	284.94	399.97	-3.80	2.56	-3.92	25.00	0.58	0.00	4.68	303.09	
14	425.00	0.72	279.02	424.97	-3.98	2.62	-4.24	25.00	0.34	0.00	4.99	301.76	
15	450.00	0.78	277.49	449.97	-4.14	2.67	-4.56	25.00	0.25	0.00	5.29	300.35	
16	475.00	0.86	279.62	474.96	-4.32	2.72	-4.92	25.00	0.34	0.00	5.62	298.99	
17	500.00	0.86	275.56	499.96	-4.50	2.77	-5.29	25.00	0.24	0.00	5.97	297.68	
18	525.00	0.81	272.66	524.96	-4.65	2.80	-5.65	25.00	0.26	0.00	6.31	296.36	
19	550.00	0.86	276.42	549.95	-4.81	2.83	-6.01	25.00	0.30	0.00	6.65	295.20	
20	575.00	0.90	279.10	574.95	-5.00	2.88	-6.39	25.00	0.23	0.00	7.01	294.26	
21	600.00	1.15	277.17	599.95	-5.21	2.94	-6.84	25.00	1.01	0.00	7.44	293.30	
22	625.00	1.18	277.63	624.94	-5.46	3.01	-7.34	25.00	0.13	0.00	7.93	292.29	
23	650.00	1.55	275.58	649.94	-5.73	3.08	-7.93	25.00	1.49	0.00	8.51	291.20	
24	675.00	1.76	280.53	674.92	-6.09	3.18	-8.65	25.00	1.02	0.00	9.21	290.19	
25	700.00	2.02	278.13	699.91	-6.51	3.31	-9.46	25.00	1.09	0.00	10.02	289.30	
26	725.00	2.28	280.74	724.89	-6.98	3.47	-10.39	25.00	1.11	0.00	10.95	288.46	
27	750.00	2.48	287.38	749.87	-7.58	3.72	-11.39	25.00	1.36	0.00	11.98	288.09	
28	775.00	2.85	297.83	774.84	-8.39	4.17	-12.46	25.00	2.44	0.00	13.14	288.52	
29	800.00	3.17	303.51	799.81	-9.42	4.85	-13.58	25.00	1.75	0.00	14.42	289.63	
30	825.00	3.19	304.56	824.77	-10.56	5.62	-14.73	25.00	0.25	0.00	15.77	290.89	
31	850.00	3.19	303.97	849.73	-11.71	6.40	-15.88	25.00	0.13	0.00	17.12	291.96	
32	875.00	2.82	298.63	874.70	-12.75	7.09	-17.00	25.00	1.85	0.00	18.42	292.64	
33	900.00	2.44	289.74	899.67	-13.57	7.56	-18.04	25.00	2.23	0.00	19.56	292.74	
34	925.00	1.87	268.33	924.66	-14.05	7.73	-18.95	25.00	3.91	0.00	20.46	292.19	
35	950.00	1.84	257.26	949.64	-14.25	7.63	-19.75	25.00	1.44	0.00	21.17	291.13	
36	975.00	1.56	234.67	974.63	-14.22	7.34	-20.42	25.00	2.88	0.00	21.70	289.79	
37	1000.00	1.39	218.84	999.62	-13.99	6.91	-20.88	25.00	1.76	0.00	22.00	288.31	
38	1025.00	1.28	203.73	1024.62	-13.64	6.42	-21.19	25.00	1.47	0.00	22.14	286.86	
39	1050.00	1.21	200.73	1049.61	-13.24	5.92	-21.39	25.00	0.38	0.00	22.20	285.46	
40	1075.00	1.14	202.13	1074.61	-12.87	5.44	-21.58	25.00	0.30	0.00	22.25	284.15	
41	1100.00	1.21	201.97	1099.60	-12.49	4.96	-21.77	25.00	0.28	0.00	22.33	282.85	
42	1125.00	1.22	198.46	1124.59	-12.09	4.47	-21.95	25.00	0.30	0.00	22.40	281.50	
43	1150.00	1.08	200.50	1149.59	-11.71	3.99	-22.12	25.00	0.58	0.00	22.48	280.24	
44	1175.00	1.13	208.63	1174.58	-11.38	3.56	-22.32	25.00	0.66	0.00	22.60	279.05	
45	1200.00	1.21	206.78	1199.58	-11.04	3.11	-22.56	25.00	0.35	0.00	22.77	277.84	
46	1225.00	1.18	201.36	1224.57	-10.68	2.63	-22.77	25.00	0.47	0.00	22.92	276.59	
47	1250.00	1.14	201.26	1249.57	-10.30	2.16	-22.96	25.00	0.16	0.00	23.06	275.37	
48	1275.00	1.22	205.69	1274.56	-9.94	1.69	-23.16	25.00	0.49	0.00	23.22	274.17	
49	1300.00	1.31	207.63	1299.56	-9.57	1.19	-23.41	25.00	0.40	0.00	23.44	272.92	
50	1325.00	1.19	211.02	1324.55	-9.22	0.72	-23.68	25.00	0.56	0.00	23.69	271.74	
51	1350.00	1.23	208.72	1349.55	-8.89	0.26	-23.94	25.00	0.25	0.00	23.94	270.62	
52	1375.00	1.25	210.76	1374.54	-8.55	-0.21	-24.21	25.00	0.19	0.00	24.21	269.50	

53	1400.00	1.28	210.41	1399.53	-8.20	-0.68	-24.49	25.00	0.12	0.00	24.50	268.40
54	1425.00	1.20	212.61	1424.53	-7.88	-1.15	-24.77	25.00	0.37	0.00	24.80	267.35
55	1450.00	1.30	205.13	1449.52	-7.53	-1.62	-25.03	25.00	0.76	0.00	25.08	266.29
56	1475.00	1.24	206.75	1474.52	-7.15	-2.12	-25.27	25.00	0.28	0.00	25.36	265.20
57	1500.00	1.26	208.58	1499.51	-6.79	-2.60	-25.53	25.00	0.18	0.00	25.66	264.17
58	1525.00	1.26	209.23	1524.50	-6.44	-3.09	-25.79	25.00	0.06	0.00	25.98	263.18
59	1550.00	1.29	211.04	1549.50	-6.09	-3.57	-26.07	25.00	0.20	0.00	26.31	262.21
60	1575.00	1.31	209.67	1574.49	-5.74	-4.06	-26.36	25.00	0.15	0.00	26.67	261.25
61	1600.00	1.26	211.65	1599.49	-5.39	-4.54	-26.64	25.00	0.27	0.00	27.03	260.33
62	1625.00	1.31	207.54	1624.48	-5.04	-5.03	-26.92	25.00	0.42	0.00	27.39	259.43
63	1650.00	1.21	210.00	1649.47	-4.68	-5.51	-27.18	25.00	0.45	0.00	27.74	258.55
64	1675.00	1.29	208.03	1674.47	-4.33	-5.98	-27.45	25.00	0.36	0.00	28.09	257.70
65	1700.00	1.21	204.79	1699.46	-3.96	-6.47	-27.69	25.00	0.43	0.00	28.44	256.84
66	1725.00	1.29	202.18	1724.46	-3.58	-6.97	-27.91	25.00	0.39	0.00	28.77	255.97
67	1750.00	1.19	209.95	1749.45	-3.21	-7.46	-28.14	25.00	0.78	0.00	29.12	255.16
68	1775.00	1.25	202.42	1774.44	-2.85	-7.94	-28.38	25.00	0.68	0.00	29.47	254.38
69	1800.00	1.22	200.16	1799.44	-2.45	-8.44	-28.57	25.00	0.23	0.00	29.79	253.55
70	1825.00	1.21	200.23	1824.43	-2.05	-8.93	-28.76	25.00	0.04	0.00	30.11	252.74
71	1850.00	1.16	201.88	1849.43	-1.67	-9.42	-28.94	25.00	0.24	0.00	30.44	251.98
72	1875.00	1.15	197.61	1874.42	-1.29	-9.89	-29.11	25.00	0.35	0.00	30.75	251.23
73	1900.00	1.18	195.97	1899.42	-0.89	-10.38	-29.26	25.00	0.18	0.00	31.04	250.47
74	1925.00	1.11	195.86	1924.41	-0.49	-10.86	-29.40	25.00	0.28	0.00	31.34	249.73
75	1950.00	1.07	200.86	1949.41	-0.12	-11.31	-29.55	25.00	0.41	0.00	31.64	249.05
76	1975.00	1.24	189.23	1974.40	0.28	-11.79	-29.67	25.00	1.15	0.00	31.93	248.32
77	2000.00	1.19	192.86	1999.40	0.73	-12.31	-29.77	25.00	0.37	0.00	32.22	247.53
78	2025.00	1.11	189.34	2024.39	1.16	-12.81	-29.87	25.00	0.43	0.00	32.50	246.79
79	2050.00	0.65	172.38	2049.39	1.50	-13.19	-29.89	25.00	2.10	0.00	32.67	246.20
80	2075.00	1.09	65.12	2074.39	1.62	-13.23	-29.66	25.00	5.70	0.00	32.47	245.96
81	2100.00	1.75	48.34	2099.38	1.48	-12.87	-29.16	25.00	3.09	0.00	31.87	246.18
82	2125.00	2.29	46.21	2124.36	1.15	-12.27	-28.51	25.00	2.18	0.00	31.04	246.71
83	2150.00	4.03	39.59	2149.32	0.53	-11.25	-27.59	25.00	7.10	0.00	29.79	247.81
84	2175.00	6.33	38.82	2174.22	-0.59	-9.50	-26.16	25.00	9.20	0.00	27.84	250.05
85	2200.00	8.60	38.01	2199.01	-2.24	-6.95	-24.15	25.00	9.09	0.00	25.13	253.94
86	2225.00	9.34	38.38	2223.70	-4.22	-3.89	-21.74	25.00	2.97	0.00	22.08	259.86
87	2250.00	9.87	39.18	2248.35	-6.31	-0.64	-19.13	25.00	2.19	0.00	19.14	268.09
88	2275.00	9.98	39.21	2272.98	-8.44	2.70	-16.40	25.00	0.44	0.00	16.62	279.35
89	2300.00	10.03	39.54	2297.60	-10.58	6.06	-13.65	25.00	0.30	0.00	14.93	293.94
90	2325.00	10.47	39.10	2322.20	-12.77	9.50	-10.83	25.00	1.79	0.00	14.41	311.26
91	2350.00	11.93	41.17	2346.72	-15.10	13.21	-7.69	25.00	6.06	0.00	15.29	329.78
92	2375.00	14.09	44.69	2371.08	-17.54	17.32	-3.85	25.00	9.20	0.00	17.74	347.46
93	2400.00	15.12	45.95	2395.27	-20.05	21.75	0.63	25.00	4.31	0.00	21.76	1.66
94	2425.00	15.70	47.45	2419.37	-22.55	26.30	5.47	25.00	2.81	0.00	26.86	11.74
95	2450.00	15.89	47.80	2443.43	-25.01	30.89	10.49	25.00	0.85	0.00	32.62	18.76
96	2475.00	15.94	48.28	2467.47	-27.45	35.47	15.59	25.00	0.56	0.00	38.75	23.73
97	2500.00	16.06	48.21	2491.50	-29.87	40.06	20.73	25.00	0.49	0.00	45.11	27.36
98	2525.00	16.15	48.36	2515.52	-32.30	44.68	25.91	25.00	0.40	0.00	51.64	30.11
99	2550.00	16.16	49.04	2539.53	-34.70	49.27	31.13	25.00	0.76	0.00	58.28	32.29
100	2575.00	16.38	49.47	2563.53	-37.04	53.84	36.44	25.00	1.00	0.00	65.01	34.09
101	2600.00	16.46	49.88	2587.51	-39.36	58.41	41.83	25.00	0.56	0.00	71.84	35.61
102	2625.00	16.58	50.85	2611.48	-41.61	62.95	47.30	25.00	1.20	0.00	78.74	36.92
103	2650.00	16.54	50.32	2635.44	-43.85	67.47	52.81	25.00	0.63	0.00	85.68	38.05
104	2675.00	16.54	50.34	2659.41	-46.10	72.01	58.29	25.00	0.02	0.00	92.64	38.99
105	2700.00	16.64	50.47	2683.37	-48.36	76.56	63.79	25.00	0.43	0.00	99.65	39.80
106	2725.00	16.70	50.62	2707.32	-50.61	81.12	69.32	25.00	0.30	0.00	106.71	40.52
107	2750.00	16.83	50.86	2731.25	-52.85	85.68	74.91	25.00	0.59	0.00	113.81	41.16
108	2775.00	16.93	51.19	2755.18	-55.07	90.25	80.55	25.00	0.55	0.00	120.97	41.75
109	2800.00	17.07	51.90	2779.08	-57.24	94.79	86.27	25.00	1.00	0.00	128.18	42.31
110	2825.00	17.12	51.63	2802.98	-59.40	99.34	92.05	25.00	0.38	0.00	135.43	42.82
111	2850.00	17.03	51.39	2826.88	-61.58	103.91	97.79	25.00	0.46	0.00	142.69	43.26
112	2875.00	17.23	52.30	2850.77	-63.73	108.46	103.58	25.00	1.34	0.00	149.98	43.68
113	2900.00	17.37	52.04	2874.64	-65.86	113.02	109.45	25.00	0.64	0.00	157.33	44.08
114	2925.00	17.38	52.14	2898.50	-68.01	117.61	115.34	25.00	0.13	0.00	164.73	44.44
115	2950.00	17.43	52.10	2922.35	-70.16	122.20	121.25	25.00	0.21	0.00	172.14	44.78
116	2975.00	17.37	52.60	2946.21	-72.29	126.76	127.17	25.00	0.64	0.00	179.56	45.09
117	3000.00	17.34	52.79	2970.07	-74.36	131.28	133.10	25.00	0.26	0.00	186.95	45.39
118	3025.00	17.32	53.30	2993.94	-76.38	135.76	139.05	25.00	0.61	0.00	194.33	45.69
119	3050.00	17.45	53.11	3017.79	-78.40	140.23	145.03	25.00	0.57	0.00	201.74	45.96
120	3075.00	17.44	53.40	3041.64	-80.41	144.72	151.04	25.00	0.35	0.00	209.18	46.22
121	3100.00	17.31	53.58	3065.50	-82.38	149.16	157.04	25.00	0.56	0.00	216.59	46.47
122	3125.00	17.30	53.94	3089.37	-84.32	153.56	163.03	25.00	0.43	0.00	223.96	46.71
123	3150.00	17.39	53.96	3113.23	-86.23	157.94	169.06	25.00	0.36	0.00	231.36	46.95
124	3175.00	17.35	54.54	3137.09	-88.11	162.30	175.12	25.00	0.71	0.00	238.76	47.17
125	3200.00	17.34	54.37	3160.96	-89.96	166.64	181.18	25.00	0.21	0.00	246.16	47.39

126	3225.00	17.41	54.24	3184.82	-91.83	170.99	187.24	25.00	0.32	0.00	253.57	47.60
127	3250.00	17.48	54.58	3208.67	-93.70	175.35	193.34	25.00	0.49	0.00	261.02	47.79
128	3275.00	17.41	54.23	3232.52	-95.57	179.72	199.43	25.00	0.50	0.00	268.46	47.98
129	3300.00	17.36	55.05	3256.38	-97.40	184.04	205.53	25.00	1.00	0.00	275.88	48.16
130	3325.00	17.40	55.42	3280.23	-99.15	188.30	211.66	25.00	0.47	0.00	283.29	48.34
131	3350.00	17.16	55.70	3304.11	-100.86	192.50	217.78	25.00	1.02	0.00	290.66	48.53
132	3375.00	17.00	55.75	3328.00	-102.52	196.63	223.85	25.00	0.64	0.00	297.95	48.70
133	3400.00	16.82	56.18	3351.92	-104.14	200.70	229.88	25.00	0.88	0.00	305.16	48.88
134	3425.00	16.62	56.46	3375.86	-105.70	204.69	235.86	25.00	0.86	0.00	312.30	49.05
135	3450.00	16.45	56.34	3399.83	-107.23	208.63	241.79	25.00	0.69	0.00	319.35	49.21
136	3475.00	16.21	56.65	3423.82	-108.73	212.51	247.65	25.00	1.02	0.00	326.33	49.37
137	3500.00	16.20	56.47	3447.83	-110.21	216.35	253.47	25.00	0.20	0.00	333.25	49.52
138	3525.00	15.93	56.68	3471.85	-111.68	220.16	259.25	25.00	1.10	0.00	340.12	49.66
139	3550.00	15.81	56.25	3495.90	-113.15	223.94	264.94	25.00	0.67	0.00	346.91	49.79
140	3575.00	15.57	56.53	3519.97	-114.60	227.68	270.57	25.00	1.01	0.00	353.62	49.92
141	3600.00	15.57	55.96	3544.05	-116.07	231.41	276.15	25.00	0.61	0.00	360.29	50.04
142	3625.00	15.28	55.71	3568.15	-117.56	235.15	281.66	25.00	1.19	0.00	366.91	50.14
143	3650.00	15.28	56.24	3592.27	-119.03	238.83	287.12	25.00	0.56	0.00	373.47	50.25
144	3675.00	15.19	56.37	3616.39	-120.45	242.48	292.58	25.00	0.39	0.00	380.00	50.35
145	3700.00	15.03	56.44	3640.52	-121.85	246.08	298.01	25.00	0.64	0.00	386.48	50.45
146	3725.00	14.93	56.35	3664.67	-123.24	249.66	303.39	25.00	0.41	0.00	392.91	50.55
147	3750.00	14.51	56.48	3688.85	-124.61	253.17	308.68	25.00	1.69	0.00	399.23	50.64
148	3775.00	14.44	56.10	3713.06	-125.97	256.64	313.88	25.00	0.47	0.00	405.45	50.73
149	3800.00	14.00	56.26	3737.29	-127.31	260.06	318.98	25.00	1.77	0.00	411.56	50.81
150	3825.00	13.76	56.45	3761.56	-128.61	263.38	323.98	25.00	0.98	0.00	417.53	50.89
151	3850.00	13.37	56.04	3785.87	-129.88	266.64	328.85	25.00	1.61	0.00	423.37	50.96
152	3875.00	13.12	55.91	3810.20	-131.16	269.85	333.60	25.00	1.01	0.00	429.07	51.03
153	3900.00	12.71	56.26	3834.57	-132.39	272.96	338.24	25.00	1.67	0.00	434.64	51.10
154	3925.00	12.53	56.30	3858.97	-133.58	276.00	342.78	25.00	0.72	0.00	440.08	51.16
155	3950.00	12.28	56.33	3883.38	-134.74	278.97	347.25	25.00	1.00	0.00	445.43	51.22
156	3975.00	12.19	56.83	3907.81	-135.87	281.89	351.67	25.00	0.56	0.00	450.70	51.29
157	4000.00	12.15	57.31	3932.25	-136.94	284.76	356.09	25.00	0.44	0.00	455.95	51.35
158	4025.00	12.04	57.84	3956.70	-137.96	287.57	360.52	25.00	0.63	0.00	461.16	51.42
159	4050.00	12.05	58.10	3981.15	-138.95	290.33	364.94	25.00	0.22	0.00	466.34	51.50
160	4075.00	11.96	59.09	4005.60	-139.87	293.04	369.38	25.00	0.90	0.00	471.50	51.57
161	4100.00	11.94	59.47	4030.06	-140.73	295.69	373.83	25.00	0.32	0.00	476.63	51.66
162	4125.00	11.85	59.70	4054.52	-141.56	298.30	378.27	25.00	0.41	0.00	481.73	51.74
163	4150.00	11.87	59.88	4078.99	-142.36	300.88	382.71	25.00	0.17	0.00	486.82	51.83
164	4175.00	11.75	60.15	4103.46	-143.15	303.44	387.14	25.00	0.53	0.00	491.89	51.91
165	4200.00	11.56	59.93	4127.94	-143.92	305.96	391.52	25.00	0.78	0.00	496.89	51.99
166	4225.00	11.30	58.93	4152.45	-144.73	308.48	395.78	25.00	1.31	0.00	501.80	52.07
167	4250.00	10.98	52.90	4176.98	-145.80	311.18	399.78	25.00	4.83	0.00	506.61	52.10
168	4275.00	11.03	47.42	4201.52	-147.33	314.23	403.44	25.00	4.19	0.00	511.38	52.09
169	4300.00	11.12	44.80	4226.05	-149.19	317.56	406.90	25.00	2.04	0.00	516.15	52.03
170	4325.00	11.18	44.53	4250.58	-151.16	321.00	410.30	25.00	0.32	0.00	520.95	51.96
171	4350.00	10.93	44.00	4275.12	-153.16	324.43	413.64	25.00	1.08	0.00	525.70	51.89
172	4375.00	10.92	43.89	4299.66	-155.15	327.85	416.93	25.00	0.09	0.00	530.39	51.82
173	4400.00	10.49	43.26	4324.23	-157.13	331.21	420.13	25.00	1.78	0.00	534.99	51.75
174	4425.00	10.43	43.28	4348.81	-159.09	334.51	423.24	25.00	0.24	0.00	539.48	51.68
175	4450.00	10.21	42.90	4373.41	-161.03	337.78	426.30	25.00	0.92	0.00	543.91	51.61
176	4475.00	10.22	42.85	4398.01	-162.97	341.03	429.32	25.00	0.05	0.00	548.29	51.54
177	4500.00	10.23	42.84	4422.61	-164.92	344.29	432.34	25.00	0.04	0.00	552.68	51.47
178	4525.00	10.79	41.42	4447.20	-166.97	347.67	435.40	25.00	2.47	0.00	557.18	51.39
179	4550.00	11.32	40.16	4471.73	-169.22	351.30	438.53	25.00	2.33	0.00	561.89	51.30
180	4575.00	11.32	39.95	4496.25	-171.59	355.06	441.69	25.00	0.16	0.00	566.70	51.21
181	4600.00	11.42	40.19	4520.75	-173.96	358.83	444.86	25.00	0.44	0.00	571.54	51.11
182	4625.00	11.40	40.01	4545.26	-176.33	362.61	448.04	25.00	0.16	0.00	576.39	51.02
183	4650.00	11.57	40.03	4569.76	-178.73	366.42	451.24	25.00	0.68	0.00	581.28	50.92
184	4675.00	11.47	39.96	4594.26	-181.14	370.25	454.45	25.00	0.40	0.00	586.18	50.83
185	4700.00	11.70	39.83	4618.75	-183.57	374.10	457.67	25.00	0.93	0.00	591.11	50.74
186	4725.00	12.83	39.97	4643.18	-186.14	378.17	461.08	25.00	4.52	0.00	596.33	50.64
187	4750.00	13.66	40.62	4667.51	-188.87	382.54	464.79	25.00	3.37	0.00	601.97	50.54
188	4775.00	14.41	41.45	4691.76	-191.70	387.11	468.77	25.00	3.11	0.00	607.95	50.45
189	4800.00	15.23	41.96	4715.93	-194.62	391.89	473.02	25.00	3.32	0.00	614.27	50.36
190	4825.00	15.77	42.38	4740.02	-197.61	396.84	477.51	25.00	2.21	0.00	620.88	50.27
191	4850.00	16.32	43.72	4764.05	-200.62	401.89	482.22	25.00	2.65	0.00	627.74	50.19
192	4875.00	16.59	44.59	4788.03	-203.57	406.97	487.16	25.00	1.46	0.00	634.78	50.12
193	4900.00	17.18	46.53	4811.95	-206.44	412.05	492.34	25.00	3.26	0.00	642.02	50.07
194	4925.00	17.34	46.91	4835.82	-209.23	417.13	497.74	25.00	0.78	0.00	649.42	50.04
195	4950.00	17.36	47.65	4859.68	-211.97	422.19	503.22	25.00	0.89	0.00	656.87	50.00
196	4975.00	17.46	47.62	4883.54	-214.67	427.23	508.75	25.00	0.40	0.00	664.34	49.98
197	5000.00	17.42	48.52	4907.39	-217.33	432.24	514.32	25.00	1.09	0.00	671.83	49.96
198	5025.00	17.26	48.81	4931.25	-219.90	437.16	519.92	25.00	0.73	0.00	679.28	49.94

199	5050.00	17.28	49.29	4955.13	-222.41	442.02	525.52	25.00	0.58	0.00	686.70	49.93
200	5075.00	16.77	49.55	4979.03	-224.84	446.79	531.08	25.00	2.06	0.00	694.02	49.93
201	5100.00	16.60	49.52	5002.98	-227.21	451.44	536.54	25.00	0.68	0.00	701.20	49.92
202	5125.00	16.23	49.55	5026.96	-229.55	456.03	541.92	25.00	1.48	0.00	708.26	49.92
203	5150.00	15.99	49.38	5050.98	-231.85	460.54	547.19	25.00	0.98	0.00	715.20	49.91
204	5175.00	15.51	49.98	5075.04	-234.07	464.93	552.36	25.00	2.03	0.00	721.99	49.91
205	5200.00	15.68	49.61	5099.12	-236.27	469.27	557.49	25.00	0.79	0.00	728.71	49.91
206	5225.00	14.91	50.09	5123.23	-238.41	473.52	562.53	25.00	3.12	0.00	735.30	49.91
207	5250.00	14.33	48.34	5147.42	-240.53	477.64	567.31	25.00	2.92	0.00	741.61	49.90
208	5275.00	13.29	43.23	5171.70	-242.85	481.79	571.59	25.00	6.41	0.00	747.56	49.87
209	5300.00	12.58	40.13	5196.07	-245.40	485.97	575.32	25.00	3.97	0.00	753.09	49.81
210	5325.00	12.25	38.25	5220.48	-248.06	490.13	578.71	25.00	2.09	0.00	758.38	49.74
211	5350.00	12.31	37.72	5244.91	-250.79	494.32	581.99	25.00	0.51	0.00	763.58	49.66
212	5375.00	12.35	37.38	5269.33	-253.56	498.55	585.24	25.00	0.33	0.00	768.80	49.57
213	5400.00	12.19	37.42	5293.76	-256.33	502.78	588.47	25.00	0.64	0.00	774.00	49.49
214	5425.00	12.25	37.17	5318.20	-259.10	506.98	591.67	25.00	0.32	0.00	779.17	49.41
215	5450.00	12.16	36.85	5342.63	-261.88	511.21	594.85	25.00	0.45	0.00	784.33	49.32
216	5475.00	12.13	36.79	5367.07	-264.67	515.42	598.01	25.00	0.13	0.00	789.47	49.24
217	5500.00	12.08	36.31	5391.52	-267.47	519.63	601.13	25.00	0.45	0.00	794.59	49.16
218	5525.00	12.16	36.14	5415.96	-270.30	523.86	604.23	25.00	0.35	0.00	799.70	49.08
219	5550.00	12.10	36.27	5440.40	-273.13	528.10	607.33	25.00	0.26	0.00	804.82	48.99
220	5575.00	12.11	36.36	5464.84	-275.95	532.32	610.44	25.00	0.09	0.00	809.94	48.91
221	5600.00	12.18	36.11	5489.29	-278.78	536.57	613.55	25.00	0.35	0.00	815.07	48.83
222	5625.00	12.13	36.09	5513.72	-281.63	540.82	616.65	25.00	0.20	0.00	820.21	48.75
223	5650.00	12.24	35.56	5538.16	-284.50	545.10	619.74	25.00	0.63	0.00	825.35	48.67
224	5675.00	12.15	35.73	5562.60	-287.39	549.39	622.81	25.00	0.39	0.00	830.50	48.58
225	5700.00	12.07	35.77	5587.04	-290.26	553.65	625.88	25.00	0.32	0.00	835.61	48.50
226	5725.00	11.86	35.42	5611.50	-293.10	557.86	628.89	25.00	0.89	0.00	840.66	48.43
227	5750.00	11.85	34.96	5635.96	-295.94	562.06	631.85	25.00	0.38	0.00	845.67	48.35
228	5775.00	11.81	34.71	5660.43	-298.81	566.27	634.78	25.00	0.26	0.00	850.65	48.27
229	5800.00	11.82	35.02	5684.90	-301.67	570.47	637.71	25.00	0.26	0.00	855.63	48.19
230	5825.00	11.83	34.74	5709.37	-304.53	574.67	640.64	25.00	0.23	0.00	860.62	48.11
231	5850.00	11.78	34.36	5733.84	-307.41	578.88	643.54	25.00	0.37	0.00	865.59	48.03
232	5875.00	11.69	34.10	5758.32	-310.30	583.08	646.40	25.00	0.42	0.00	870.53	47.95
233	5900.00	11.43	33.73	5782.81	-313.16	587.24	649.19	25.00	1.08	0.00	875.39	47.87
234	5925.00	11.42	33.46	5807.32	-316.02	591.37	651.93	25.00	0.22	0.00	880.19	47.79
235	5950.00	11.32	33.22	5831.83	-318.88	595.48	654.64	25.00	0.44	0.00	884.96	47.71
236	5975.00	11.38	32.74	5856.34	-321.76	599.61	657.32	25.00	0.45	0.00	889.72	47.63
237	6000.00	11.30	32.79	5880.85	-324.66	603.74	659.98	25.00	0.32	0.00	894.47	47.55
238	6025.00	11.28	33.00	5905.37	-327.53	607.85	662.64	25.00	0.18	0.00	899.21	47.47
239	6050.00	11.32	32.28	5929.88	-330.42	611.98	665.28	25.00	0.59	0.00	903.95	47.39
240	6075.00	11.36	31.87	5954.40	-333.36	616.14	667.89	25.00	0.36	0.00	908.69	47.31
241	6100.00	11.34	31.00	5978.91	-336.35	620.34	670.46	25.00	0.69	0.00	913.42	47.22
242	6125.00	11.29	30.79	6003.42	-339.37	624.55	672.98	25.00	0.26	0.00	918.13	47.14
243	6150.00	11.25	30.77	6027.94	-342.38	628.75	675.48	25.00	0.16	0.00	922.82	47.05
244	6175.00	11.00	30.16	6052.47	-345.37	632.91	677.92	25.00	1.11	0.00	927.44	46.97
245	6200.00	10.94	29.24	6077.01	-348.37	637.04	680.28	25.00	0.74	0.00	931.99	46.88
246	6225.00	10.92	28.91	6101.56	-351.40	641.18	682.58	25.00	0.26	0.00	936.50	46.79
247	6250.00	10.94	28.62	6126.10	-354.46	645.34	684.86	25.00	0.23	0.00	941.01	46.70
248	6275.00	10.84	28.34	6150.65	-357.51	649.49	687.12	25.00	0.45	0.00	945.50	46.61
249	6300.00	10.82	28.19	6175.21	-360.57	653.63	689.34	25.00	0.14	0.00	949.96	46.52
250	6325.00	10.47	27.44	6199.78	-363.60	657.71	691.50	25.00	1.51	0.00	954.33	46.43
251	6350.00	10.39	26.91	6224.37	-366.61	661.74	693.56	25.00	0.50	0.00	958.61	46.35
252	6375.00	10.30	25.60	6248.96	-369.64	665.76	695.55	25.00	1.01	0.00	962.82	46.25
253	6400.00	10.30	24.81	6273.56	-372.73	669.81	697.45	25.00	0.57	0.00	967.00	46.16
254	6425.00	10.16	24.59	6298.16	-375.82	673.84	699.31	25.00	0.58	0.00	971.13	46.06
255	6450.00	10.12	24.09	6322.77	-378.90	677.85	701.12	25.00	0.39	0.00	975.22	45.97
256	6475.00	10.18	23.43	6347.38	-382.02	681.88	702.90	25.00	0.52	0.00	979.30	45.87
257	6500.00	10.17	22.77	6371.98	-385.18	685.94	704.63	25.00	0.47	0.00	983.37	45.77
258	6525.00	10.20	22.80	6396.59	-388.37	690.02	706.34	25.00	0.12	0.00	987.45	45.67
259	6550.00	9.96	22.05	6421.20	-391.54	694.07	708.01	25.00	1.09	0.00	991.47	45.57
260	6575.00	9.99	21.64	6445.83	-394.70	698.08	709.62	25.00	0.31	0.00	995.43	45.47
261	6600.00	9.79	21.06	6470.46	-397.87	702.08	711.19	25.00	0.89	0.00	999.35	45.37
262	6625.00	9.70	20.59	6495.09	-401.01	706.04	712.69	25.00	0.48	0.00	1003.20	45.27
263	6650.00	9.60	20.35	6519.74	-404.14	709.96	714.16	25.00	0.43	0.00	1007.01	45.17
264	6675.00	9.45	20.09	6544.40	-407.25	713.85	715.59	25.00	0.62	0.00	1010.76	45.07
265	6700.00	9.50	19.60	6569.06	-410.35	717.72	716.98	25.00	0.38	0.00	1014.49	44.97
266	6725.00	9.39	19.27	6593.72	-413.47	721.59	718.35	25.00	0.49	0.00	1018.19	44.87
267	6750.00	9.36	19.36	6618.38	-416.56	725.43	719.70	25.00	0.13	0.00	1021.87	44.77
268	6775.00	9.48	19.59	6643.05	-419.67	729.29	721.06	25.00	0.50	0.00	1025.57	44.67
269	6800.00	9.45	19.27	6667.70	-422.79	733.16	722.43	25.00	0.24	0.00	1029.29	44.58
270	6825.00	9.46	19.22	6692.37	-425.92	737.04	723.78	25.00	0.05	0.00	1033.00	44.48
271	6850.00	9.53	20.16	6717.02	-429.04	740.92	725.17	25.00	0.68	0.00	1036.75	44.38

272	6875.00	9.77	23.25	6741.67	-432.11	744.82	726.72	25.00	2.28	0.00	1040.61	44.30
273	6900.00	9.87	24.08	6766.30	-435.13	748.72	728.43	25.00	0.69	0.00	1044.60	44.21
274	6925.00	9.91	24.22	6790.93	-438.15	752.64	730.19	25.00	0.19	0.00	1048.64	44.13
275	6950.00	9.95	24.24	6815.56	-441.18	756.57	731.96	25.00	0.16	0.00	1052.69	44.05
276	6975.00	10.01	24.35	6840.18	-444.21	760.52	733.74	25.00	0.25	0.00	1056.77	43.97
277	7000.00	9.91	23.70	6864.80	-447.26	764.47	735.50	25.00	0.60	0.00	1060.84	43.89
278	7025.00	9.96	23.63	6889.43	-450.32	768.42	737.23	25.00	0.21	0.00	1064.89	43.81
279	7050.00	9.76	23.35	6914.06	-453.36	772.35	738.94	25.00	0.82	0.00	1068.90	43.73
280	7075.00	9.75	23.10	6938.70	-456.39	776.24	740.61	25.00	0.17	0.00	1072.87	43.65
281	7100.00	9.29	22.73	6963.35	-459.36	780.05	742.22	25.00	1.86	0.00	1076.74	43.58
282	7125.00	9.15	22.91	6988.03	-462.24	783.74	743.77	25.00	0.57	0.00	1080.48	43.50
283	7150.00	9.07	22.11	7012.71	-465.11	787.40	745.29	25.00	0.60	0.00	1084.18	43.43
284	7175.00	8.86	21.74	7037.41	-467.95	791.01	746.74	25.00	0.87	0.00	1087.81	43.35
285	7200.00	8.66	21.47	7062.12	-470.74	794.55	748.15	25.00	0.82	0.00	1091.34	43.28
286	7225.00	8.47	21.81	7086.84	-473.48	798.01	749.52	25.00	0.79	0.00	1094.81	43.21
287	7250.00	8.38	22.02	7111.57	-476.15	801.41	750.89	25.00	0.38	0.00	1098.22	43.14
288	7275.00	8.31	25.82	7136.30	-478.71	804.72	752.36	25.00	2.22	0.00	1101.64	43.07
289	7300.00	8.37	28.07	7161.04	-481.13	807.96	754.00	25.00	1.33	0.00	1105.13	43.02
290	7325.00	8.37	28.85	7185.77	-483.49	811.15	755.73	25.00	0.45	0.00	1108.65	42.97
291	7350.00	8.35	29.16	7210.51	-485.82	814.33	757.50	25.00	0.20	0.00	1112.18	42.93
292	7375.00	8.10	29.22	7235.25	-488.10	817.46	759.24	25.00	1.00	0.00	1115.65	42.89
293	7400.00	7.82	29.23	7260.01	-490.31	820.48	760.93	25.00	1.12	0.00	1119.02	42.84
294	7425.00	7.48	28.40	7284.79	-492.45	823.39	762.53	25.00	1.43	0.00	1122.25	42.80
295	7450.00	7.40	28.10	7309.58	-494.55	826.24	764.07	25.00	0.36	0.00	1125.38	42.76
296	7475.00	7.14	28.06	7334.37	-496.62	829.04	765.56	25.00	1.04	0.00	1128.44	42.72
297	7500.00	7.04	27.68	7359.18	-498.64	831.76	767.00	25.00	0.44	0.00	1131.42	42.68
298	7525.00	6.96	27.31	7384.00	-500.65	834.47	768.41	25.00	0.37	0.00	1134.36	42.64
299	7550.00	6.57	26.38	7408.82	-502.62	837.09	769.74	25.00	1.62	0.00	1137.20	42.60
300	7575.00	6.55	25.93	7433.66	-504.56	839.66	770.99	25.00	0.22	0.00	1139.94	42.56
301	7600.00	6.32	24.86	7458.50	-506.48	842.19	772.20	25.00	1.04	0.00	1142.61	42.52
302	7625.00	6.20	25.66	7483.35	-508.36	844.65	773.36	25.00	0.59	0.00	1145.22	42.48
303	7650.00	6.09	24.25	7508.21	-510.22	847.08	774.49	25.00	0.75	0.00	1147.77	42.44
304	7675.00	6.16	23.46	7533.07	-512.10	849.52	775.57	25.00	0.44	0.00	1150.30	42.39
305	7700.00	5.80	23.51	7557.93	-513.95	851.91	776.61	25.00	1.44	0.00	1152.76	42.35
306	7725.00	5.56	22.43	7582.81	-515.73	854.18	777.57	25.00	1.05	0.00	1155.10	42.31
307	7750.00	5.31	21.21	7607.70	-517.46	856.38	778.45	25.00	1.10	0.00	1157.32	42.27
308	7775.00	4.92	21.28	7632.60	-519.11	858.46	779.26	25.00	1.56	0.00	1159.40	42.23
309	7800.00	4.90	22.15	7657.50	-520.67	860.45	780.05	25.00	0.31	0.00	1161.40	42.19
310	7825.00	4.44	20.01	7682.42	-522.18	862.35	780.79	25.00	1.97	0.00	1163.30	42.16
311	7850.00	4.31	19.85	7707.35	-523.62	864.14	781.44	25.00	0.52	0.00	1165.07	42.12
312	7875.00	4.23	17.72	7732.28	-525.04	865.90	782.03	25.00	0.71	0.00	1166.77	42.09
313	7900.00	4.21	18.20	7757.21	-526.47	867.65	782.60	25.00	0.16	0.00	1168.45	42.05
314	7925.00	3.74	18.59	7782.15	-527.81	869.30	783.15	25.00	1.88	0.00	1170.04	42.02
315	7950.00	3.72	18.40	7807.10	-529.06	870.84	783.66	25.00	0.09	0.00	1171.53	41.98
316	7975.00	3.48	18.06	7832.05	-530.27	872.33	784.16	25.00	0.96	0.00	1172.97	41.95
317	8000.00	3.28	19.45	7857.01	-531.40	873.72	784.63	25.00	0.86	0.00	1174.32	41.92
318	8025.00	3.15	19.02	7881.97	-532.47	875.05	785.09	25.00	0.53	0.00	1175.62	41.90
319	8050.00	3.00	16.77	7906.93	-533.51	876.32	785.50	25.00	0.77	0.00	1176.84	41.87
320	8075.00	2.89	23.18	7931.90	-534.48	877.53	785.94	25.00	1.39	0.00	1178.03	41.85
321	8100.00	2.53	40.28	7956.87	-535.19	878.53	786.55	25.00	3.52	0.00	1179.18	41.84
322	8125.00	2.51	55.68	7981.85	-535.58	879.26	787.35	25.00	2.70	0.00	1180.26	41.84
323	8150.00	2.37	61.43	8006.82	-535.77	879.82	788.26	25.00	1.13	0.00	1181.28	41.86
324	8175.00	2.32	62.33	8031.80	-535.89	880.30	789.16	25.00	0.25	0.00	1182.24	41.88
325	8200.00	2.26	64.24	8056.78	-535.99	880.75	790.05	25.00	0.39	0.00	1183.17	41.89
326	8225.00	2.23	65.45	8081.76	-536.06	881.16	790.94	25.00	0.22	0.00	1184.08	41.91
327	8250.00	2.01	63.74	8106.75	-536.13	881.56	791.78	25.00	0.92	0.00	1184.93	41.93
328	8275.00	1.99	66.62	8131.73	-536.18	881.93	792.57	25.00	0.41	0.00	1185.73	41.95
329	8300.00	1.95	63.76	8156.72	-536.24	882.29	793.35	25.00	0.42	0.00	1186.52	41.96
330	8325.00	1.84	65.41	8181.70	-536.30	882.64	794.09	25.00	0.49	0.00	1187.28	41.98
331	8350.00	1.88	67.45	8206.69	-536.33	882.97	794.84	25.00	0.31	0.00	1188.02	41.99
332	8375.00	1.88	72.19	8231.68	-536.32	883.25	795.61	25.00	0.62	0.00	1188.75	42.01
333	8400.00	1.98	91.28	8256.66	-536.13	883.36	796.43	25.00	2.59	0.00	1189.38	42.04
334	8425.00	2.15	106.61	8281.65	-535.68	883.22	797.31	25.00	2.30	0.00	1189.87	42.07
335	8450.00	2.22	110.59	8306.63	-535.07	882.92	798.21	25.00	0.67	0.00	1190.25	42.12
336	8475.00	2.23	110.43	8331.61	-534.42	882.58	799.12	25.00	0.05	0.00	1190.60	42.16
337	8500.00	2.20	112.97	8356.59	-533.76	882.22	800.02	25.00	0.41	0.00	1190.94	42.20
338	8525.00	1.93	112.25	8381.57	-533.14	881.87	800.85	25.00	1.08	0.00	1191.24	42.24
339	8550.00	1.87	112.68	8406.56	-532.57	881.56	801.62	25.00	0.25	0.00	1191.52	42.28
340	8575.00	1.79	112.58	8431.55	-532.02	881.25	802.35	25.00	0.32	0.00	1191.79	42.32
341	8600.00	1.69	114.73	8456.54	-531.48	880.94	803.05	25.00	0.48	0.00	1192.04	42.35
342	8625.00	1.67	116.27	8481.52	-530.95	880.63	803.71	25.00	0.20	0.00	1192.25	42.39
343	8650.00	1.54	114.49	8506.51	-530.44	880.33	804.34	25.00	0.56	0.00	1192.45	42.42
344	8675.00	1.51	116.74	8531.51	-529.95	880.04	804.94	25.00	0.27	0.00	1192.65	42.45

345	8700.00	1.32	117.59	8556.50	-529.49	879.76	805.49	25.00	0.76	0.00	1192.81	42.48
346	8725.00	1.33	118.63	8581.49	-529.06	879.49	806.00	25.00	0.10	0.00	1192.95	42.50
347	8750.00	1.21	118.90	8606.49	-528.63	879.22	806.49	25.00	0.48	0.00	1193.08	42.53
348	8775.00	1.07	126.24	8631.48	-528.23	878.95	806.91	25.00	0.81	0.00	1193.17	42.55
349	8800.00	0.98	124.10	8656.48	-527.86	878.70	807.27	25.00	0.39	0.00	1193.23	42.57
350	8825.00	0.88	120.24	8681.47	-527.53	878.48	807.62	25.00	0.47	0.00	1193.30	42.59
351	8850.00	0.86	127.28	8706.47	-527.22	878.27	807.93	25.00	0.43	0.00	1193.36	42.61
352	8875.00	0.71	138.39	8731.47	-526.92	878.04	808.18	25.00	0.85	0.00	1193.36	42.63
353	8900.00	0.68	138.54	8756.47	-526.64	877.81	808.38	25.00	0.12	0.00	1193.33	42.64
354	8925.00	0.73	139.46	8781.46	-526.35	877.58	808.59	25.00	0.21	0.00	1193.30	42.66
355	8950.00	0.63	142.37	8806.46	-526.06	877.35	808.77	25.00	0.42	0.00	1193.26	42.67
356	8975.00	0.62	142.43	8831.46	-525.80	877.14	808.94	25.00	0.04	0.00	1193.21	42.68
357	9000.00	0.53	151.01	8856.46	-525.56	876.93	809.08	25.00	0.50	0.00	1193.15	42.70
358	9025.00	0.50	150.99	8881.46	-525.34	876.73	809.19	25.00	0.12	0.00	1193.08	42.71
359	9050.00	0.46	158.71	8906.46	-525.13	876.54	809.28	25.00	0.30	0.00	1193.00	42.72
360	9075.00	0.30	164.20	8931.46	-524.96	876.38	809.33	25.00	0.66	0.00	1192.92	42.72
361	9100.00	0.20	142.49	8956.46	-524.85	876.29	809.38	25.00	0.54	0.00	1192.88	42.73
362	9125.00	0.19	105.97	8981.46	-524.79	876.24	809.44	25.00	0.49	0.00	1192.89	42.73
363	9150.00	0.18	104.74	9006.46	-524.74	876.22	809.52	25.00	0.04	0.00	1192.93	42.73
364	9175.00	0.15	110.79	9031.46	-524.69	876.20	809.59	25.00	0.14	0.00	1192.96	42.74
365	9200.00	0.21	103.63	9056.46	-524.65	876.18	809.66	25.00	0.26	0.00	1193.00	42.74
366	9225.00	0.33	111.82	9081.46	-524.57	876.14	809.77	25.00	0.50	0.00	1193.04	42.75
367	9250.00	0.30	138.86	9106.46	-524.46	876.06	809.88	25.00	0.60	0.00	1193.06	42.75
368	9275.00	0.37	143.80	9131.46	-524.32	875.95	809.98	25.00	0.30	0.00	1193.04	42.76
369	9300.00	0.35	147.94	9156.45	-524.17	875.82	810.06	25.00	0.13	0.00	1193.00	42.77
370	9325.00	0.46	161.61	9181.45	-523.99	875.66	810.14	25.00	0.58	0.00	1192.94	42.77
371	9350.00	0.47	161.09	9206.45	-523.79	875.47	810.20	25.00	0.04	0.00	1192.84	42.78
372	9375.00	0.46	151.10	9231.45	-523.59	875.28	810.28	25.00	0.33	0.00	1192.76	42.79
373	9400.00	0.52	152.95	9256.45	-523.38	875.09	810.38	25.00	0.25	0.00	1192.69	42.80
374	9425.00	0.51	148.36	9281.45	-523.15	874.90	810.49	25.00	0.17	0.00	1192.62	42.81
375	9450.00	0.58	126.48	9306.45	-522.94	874.73	810.65	25.00	0.87	0.00	1192.60	42.82
376	9475.00	0.53	131.53	9331.45	-522.73	874.57	810.84	25.00	0.28	0.00	1192.62	42.83
377	9500.00	0.35	151.59	9356.45	-522.55	874.43	810.96	25.00	0.94	0.00	1192.60	42.84
378	9525.00	0.20	140.53	9381.45	-522.43	874.33	811.03	25.00	0.63	0.00	1192.57	42.85
379	9550.00	0.44	82.27	9406.45	-522.37	874.31	811.15	25.00	1.50	0.00	1192.64	42.85
380	9558.00	0.56	76.78	9414.45	-522.36	874.32	811.22	8.00	1.61	0.00	1192.69	42.86
381	9585.00	0.69	116.64	9441.45	-522.22	874.28	811.49	27.00	1.64	0.00	1192.85	42.87
382	9676.00	1.22	140.10	9532.43	-520.89	873.29	812.60	91.00	0.71	0.00	1192.88	42.94
383	9717.00	1.72	148.87	9573.42	-519.87	872.43	813.20	41.00	1.33	0.00	1192.66	42.99
384	9811.00	2.86	169.20	9667.34	-516.18	868.92	814.37	94.00	1.47	0.00	1190.89	43.14
385	9856.00	3.41	174.39	9712.28	-513.79	866.49	814.71	45.00	1.37	0.00	1189.35	43.24
386	9902.00	8.88	160.27	9758.00	-508.92	861.78	816.04	46.00	12.25	0.00	1186.84	43.44
387	9947.00	17.13	159.39	9801.81	-498.80	852.29	819.55	45.00	18.33	0.00	1182.40	43.88
388	9993.00	26.70	157.10	9844.43	-481.66	836.40	825.98	46.00	20.89	0.00	1175.50	44.64
389	10038.00	34.12	156.33	9883.22	-458.91	815.50	834.99	45.00	16.52	0.00	1167.15	45.68
390	10083.00	37.64	155.77	9919.67	-432.57	791.40	845.70	45.00	7.86	0.00	1158.24	46.90
391	10128.00	40.03	158.76	9954.72	-404.37	765.37	856.59	45.00	6.74	0.00	1148.71	48.22
392	10174.00	40.67	160.15	9989.78	-374.59	737.48	867.04	46.00	2.40	0.00	1138.26	49.62
393	10219.00	44.89	162.64	10022.80	-344.07	708.52	876.76	45.00	10.10	0.00	1127.25	51.06
394	10264.00	46.40	163.93	10054.26	-312.00	677.70	886.00	45.00	3.93	0.00	1115.47	52.59
395	10310.00	51.55	162.81	10084.44	-277.41	644.47	895.95	46.00	11.34	0.00	1103.65	54.27
396	10355.00	52.96	162.45	10111.99	-241.91	610.51	906.57	45.00	3.20	0.00	1092.97	56.04
397	10401.00	57.61	161.69	10138.18	-204.17	574.54	918.21	46.00	10.20	0.00	1083.15	57.97
398	10446.00	58.31	161.67	10162.05	-166.07	538.33	930.20	45.00	1.54	0.00	1074.74	59.94
399	10492.00	61.45	162.85	10185.14	-126.36	500.44	942.31	46.00	7.18	0.00	1066.95	62.03
400	10538.00	62.85	163.12	10206.63	-85.80	461.55	954.21	46.00	3.09	0.00	1059.97	64.19
401	10583.00	64.97	162.99	10226.42	-45.50	422.89	965.99	45.00	4.72	0.00	1054.50	66.36
402	10628.00	68.03	162.71	10244.36	-4.33	383.46	978.16	45.00	6.82	0.00	1050.63	68.59
403	10674.00	70.34	163.61	10260.70	38.54	342.31	990.61	46.00	5.33	0.00	1048.08	70.94
404	10719.00	72.91	163.82	10274.89	81.08	301.32	1002.58	45.00	5.74	0.00	1046.89	73.27
405	10765.00	75.54	162.86	10287.39	125.21	258.92	1015.28	46.00	6.05	0.00	1047.77	75.69
406	10810.00	78.98	162.18	10297.32	169.00	217.06	1028.46	45.00	7.80	0.00	1051.12	78.08
407	10855.00	82.64	162.03	10304.50	213.35	174.79	1042.11	45.00	8.14	0.00	1056.67	80.48
408	10946.00	90.27	162.02	10310.12	303.97	88.47	1070.13	91.00	8.38	0.00	1073.78	85.27
409	10983.00	92.99	162.42	10309.07	340.88	53.25	1081.42	37.00	7.43	0.00	1082.73	87.18
410	11074.00	93.80	163.09	10303.69	431.51	-33.51	1108.35	91.00	1.16	0.00	1108.85	91.73
411	11164.00	90.80	164.66	10300.07	521.07	-119.88	1133.32	90.00	3.76	0.00	1139.64	96.04
412	11255.00	89.29	164.96	10300.01	611.58	-207.70	1157.17	91.00	1.70	0.00	1175.66	100.18
413	11346.00	89.37	164.77	10301.08	702.07	-295.54	1180.93	91.00	0.22	0.00	1217.34	104.05
414	11436.00	88.64	164.25	10302.64	791.61	-382.25	1204.96	90.00	0.99	0.00	1264.14	107.60
415	11527.00	87.24	164.37	10305.91	882.13	-469.80	1229.55	91.00	1.55	0.00	1316.25	110.91
416	11617.00	87.52	164.29	10310.03	971.63	-556.37	1253.84	90.00	0.32	0.00	1371.73	113.93
417	11708.00	88.47	164.46	10313.21	1062.14	-643.95	1278.33	91.00	1.06	0.00	1431.36	116.74

418	11798.00	87.10	163.13	10316.69	1151.73	-730.31	1303.42	90.00	2.13	0.00	1494.08	119.26
419	11889.00	89.09	160.64	10319.71	1242.54	-816.73	1331.71	91.00	3.50	0.00	1562.21	121.52
420	11980.00	88.61	160.51	10321.54	1333.48	-902.53	1361.97	91.00	0.54	0.00	1633.87	123.53
421	12071.00	88.11	160.16	10324.14	1424.41	-988.19	1392.58	91.00	0.67	0.00	1707.57	125.36
422	12161.00	88.25	159.74	10327.00	1514.35	-1072.70	1423.41	90.00	0.49	0.00	1782.35	127.00
423	12252.00	88.14	159.80	10329.87	1605.29	-1158.04	1454.87	91.00	0.14	0.00	1859.49	128.52
424	12343.00	87.60	159.36	10333.26	1696.22	-1243.26	1486.59	91.00	0.75	0.00	1937.95	129.91
425	12434.00	90.01	160.49	10335.15	1787.18	-1328.71	1517.82	91.00	2.92	0.00	2017.24	131.20
426	12525.00	90.88	162.29	10334.44	1878.08	-1414.94	1546.86	91.00	2.20	0.00	2096.39	132.45
427	12615.00	91.56	162.28	10332.52	1967.90	-1500.65	1574.24	90.00	0.75	0.00	2174.90	133.63
428	12706.00	93.66	162.87	10328.38	2058.60	-1587.38	1601.47	91.00	2.40	0.00	2254.88	134.75
429	12797.00	91.81	162.05	10324.05	2149.31	-1674.05	1628.86	91.00	2.23	0.00	2335.73	135.78
430	12888.00	88.56	162.77	10323.76	2240.12	-1760.78	1656.36	91.00	3.66	0.00	2417.41	136.75
431	12979.00	89.37	164.56	10325.40	2330.78	-1848.09	1681.95	91.00	2.17	0.00	2498.87	137.69
432	13069.00	88.02	165.72	10327.45	2420.20	-1935.05	1705.02	90.00	1.97	0.00	2579.05	138.62
433	13160.00	88.30	165.54	10330.37	2510.52	-2023.16	1727.60	91.00	0.37	0.00	2660.41	139.51
434	13251.00	87.69	164.90	10333.55	2600.90	-2111.09	1750.81	91.00	0.97	0.00	2742.63	140.33
435	13341.00	88.05	164.67	10336.89	2690.35	-2197.88	1774.41	90.00	0.47	0.00	2824.74	141.09
436	13432.00	85.83	164.68	10341.74	2780.74	-2285.51	1798.42	91.00	2.44	0.00	2908.24	141.80
437	13522.00	90.94	167.34	10344.28	2869.96	-2372.77	1820.16	90.00	6.40	0.00	2990.49	142.51
438	13613.00	90.41	166.96	10343.21	2960.00	-2461.48	1840.40	91.00	0.72	0.00	3073.43	143.22
439	13703.00	88.67	165.73	10343.94	3049.22	-2548.93	1861.65	90.00	2.36	0.00	3156.39	143.86
440	13794.00	90.38	165.90	10344.69	3139.54	-2637.15	1883.96	91.00	1.89	0.00	3240.96	144.46
441	13885.00	92.42	166.21	10342.47	3229.79	-2725.43	1905.89	91.00	2.27	0.00	3325.71	145.04
442	13975.00	91.19	165.17	10339.63	3319.09	-2812.59	1928.12	90.00	1.79	0.00	3410.03	145.57
443	14066.00	91.58	165.15	10337.43	3409.51	-2900.53	1951.42	91.00	0.43	0.00	3495.87	146.07
444	14156.00	92.23	164.76	10334.43	3498.95	-2987.40	1974.77	90.00	0.83	0.00	3581.10	146.53
445	14247.00	92.51	164.47	10330.67	3589.41	-3075.06	1998.89	91.00	0.44	0.00	3667.64	146.97
446	14338.00	94.81	165.11	10324.87	3679.72	-3162.69	2022.72	91.00	2.62	0.00	3754.20	147.40
447	14429.00	94.14	164.60	10317.77	3769.95	-3250.26	2046.43	91.00	0.93	0.00	3840.84	147.80
448	14520.00	93.16	163.06	10311.99	3860.41	-3337.48	2071.72	91.00	2.00	0.00	3928.20	148.17
449	14610.00	90.07	161.66	10309.45	3950.19	-3423.20	2098.98	90.00	3.76	0.00	4015.47	148.48
450	14701.00	88.61	161.05	10310.50	4041.10	-3509.41	2128.07	91.00	1.74	0.00	4104.23	148.77
451	14792.00	88.22	160.72	10313.01	4132.00	-3595.36	2157.87	91.00	0.56	0.00	4193.21	149.03
452	14882.00	88.75	160.39	10315.39	4221.93	-3680.20	2187.82	90.00	0.69	0.00	4281.40	149.27
453	14973.00	89.93	160.08	10316.44	4312.90	-3765.83	2218.58	91.00	1.34	0.00	4370.76	149.50
454	15064.00	89.37	159.22	10316.99	4403.88	-3851.15	2250.22	91.00	1.13	0.00	4460.36	149.70
455	15155.00	89.01	158.97	10318.28	4494.87	-3936.15	2282.69	91.00	0.49	0.00	4550.16	149.89
456	15246.00	88.39	162.89	10320.35	4585.77	-4022.11	2312.42	91.00	4.36	0.00	4639.47	150.10
457	15337.00	87.43	162.44	10323.67	4676.51	-4108.92	2339.51	91.00	1.16	0.00	4728.27	150.34
458	15428.00	86.71	165.11	10328.32	4767.04	-4196.17	2364.90	91.00	3.04	0.00	4816.70	150.60
459	15519.00	86.31	166.54	10333.86	4857.19	-4284.24	2387.15	91.00	1.62	0.00	4904.40	150.87
460	15610.00	86.54	167.41	10339.53	4947.10	-4372.72	2407.62	91.00	0.98	0.00	4991.72	151.16
461	15701.00	89.54	168.88	10342.65	5036.83	-4461.72	2426.30	91.00	3.67	0.00	5078.76	151.46
462	15791.00	93.10	168.35	10340.58	5125.48	-4549.91	2444.05	90.00	4.00	0.00	5164.79	151.76
463	15882.00	95.66	169.06	10333.63	5214.87	-4638.88	2461.82	91.00	2.91	0.00	5251.64	152.05
464	15973.00	94.76	165.98	10325.37	5304.44	-4727.35	2481.40	91.00	3.51	0.00	5339.02	152.30
465	16064.00	96.25	162.28	10316.64	5394.61	-4814.46	2506.17	91.00	4.37	0.00	5427.70	152.50
466	16154.00	91.13	160.61	10310.85	5484.30	-4899.57	2534.74	90.00	5.97	0.00	5516.40	152.65
467	16245.00	91.53	160.55	10308.74	5575.23	-4985.37	2565.00	91.00	0.44	0.00	5606.52	152.77
468	16336.00	86.73	159.34	10310.12	5666.18	-5070.81	2596.19	91.00	5.43	0.00	5696.78	152.89
469	16427.00	86.45	160.07	10315.53	5757.01	-5156.02	2627.69	91.00	0.86	0.00	5786.99	152.99
470	16518.00	87.69	161.98	10320.17	5847.81	-5241.95	2657.23	91.00	2.50	0.00	5876.99	153.12
471	16608.00	88.42	164.21	10323.23	5937.51	-5328.01	2683.38	90.00	2.60	0.00	5965.59	153.27
472	16700.00	91.84	165.94	10323.03	6028.94	-5416.89	2707.07	92.00	4.17	0.00	6055.65	153.45
473	16790.00	91.69	165.81	10320.26	6118.22	-5504.13	2729.03	90.00	0.21	0.00	6143.53	153.63
474	16882.00	92.14	164.91	10317.18	6209.57	-5593.09	2752.26	92.00	1.10	0.00	6233.59	153.80
475	16972.00	90.91	164.00	10314.78	6299.10	-5679.76	2776.38	90.00	1.70	0.00	6322.02	153.95
476	17063.00	89.59	160.85	10314.38	6389.91	-5766.50	2803.86	91.00	3.75	0.00	6412.03	154.07
477	17153.00	88.87	159.90	10315.59	6479.87	-5851.26	2834.09	90.00	1.33	0.00	6501.49	154.16
478	17243.00	87.97	159.59	10318.07	6569.82	-5935.66	2865.24	90.00	1.05	0.00	6591.03	154.23
479	17334.00	90.49	161.35	10319.30	6660.77	-6021.41	2895.65	91.00	3.38	0.00	6681.48	154.32
480	17425.00	91.81	163.73	10317.47	6751.55	-6108.19	2922.94	91.00	2.99	0.00	6771.53	154.43
481	17515.00	92.06	163.78	10314.44	6841.16	-6194.55	2948.10	90.00	0.28	0.00	6860.30	154.55
482	17605.00	92.20	164.00	10311.09	6930.75	-6280.96	2973.05	90.00	0.28	0.00	6949.06	154.67
483	17696.00	93.04	164.07	10306.93	7021.28	-6368.36	2998.06	91.00	0.93	0.00	7038.77	154.79
484	17786.00	92.23	163.67	10302.80	7110.84	-6454.72	3023.03	90.00	1.01	0.00	7127.56	154.90
485	17876.00	90.94	162.78	10300.31	7200.54	-6540.85	3049.00	90.00	1.74	0.00	7216.59	155.01
486	17967.00	88.61	162.72	10300.67	7291.32	-6627.75	3075.98	91.00	2.56	0.00	7306.76	155.10
487	18058.00	88.08	163.60	10303.30	7382.02	-6714.82	3102.33	91.00	1.12	0.00	7396.84	155.20
488	18148.00	87.80	166.27	10306.53	7471.44	-6801.66	3125.71	90.00	2.98	0.00	7485.49	155.32
489	18239.00	87.94	165.71	10309.91	7561.67	-6889.89	3147.73	91.00	0.63	0.00	7574.88	155.45
490	18329.00	87.88	166.07	10313.19	7650.93	-6977.11	3169.66	90.00	0.40	0.00	7663.34	155.57

491	18420.00	87.89	166.29	10316.55	7741.12	-7065.42	3191.38	91.00	0.25	0.00	7752.75	155.69	
492	18511.00	87.44	166.71	10320.27	7831.23	-7153.83	3212.61	91.00	0.68	0.00	7842.07	155.82	
493	18601.00	87.24	166.75	10324.45	7920.28	-7241.33	3233.24	90.00	0.22	0.00	7930.37	155.94	
494	18692.00	88.19	165.18	10328.07	8010.50	-7329.54	3255.30	91.00	2.01	0.00	8019.92	156.05	
495	18782.00	90.29	164.93	10329.26	8099.96	-7416.48	3278.51	90.00	2.35	0.00	8108.81	156.15	
496	18873.00	90.21	165.23	10328.86	8190.41	-7504.41	3301.94	91.00	0.34	0.00	8198.72	156.25	
497	18963.00	91.84	165.92	10327.25	8279.77	-7591.56	3324.36	90.00	1.96	0.00	8287.53	156.35	
498	19054.00	92.51	165.52	10323.80	8370.05	-7679.68	3346.79	91.00	0.86	0.00	8377.26	156.45	
499	19144.00	90.88	163.95	10321.14	8459.53	-7766.46	3370.48	90.00	2.51	0.00	8466.29	156.54	
500	19235.00	91.64	164.04	10319.14	8550.14	-7853.91	3395.57	91.00	0.84	0.00	8556.51	156.62	
501	19325.00	92.82	164.73	10315.64	8639.64	-7940.52	3419.77	90.00	1.52	0.00	8645.62	156.70	
502	19416.00	92.62	164.73	10311.33	8730.06	-8028.21	3443.70	91.00	0.21	0.00	8735.63	156.78	
503	19507.00	93.07	166.09	10306.81	8820.35	-8116.17	3466.59	91.00	1.56	0.00	8825.50	156.87	
504	19597.00	93.15	164.72	10301.93	8909.62	-8203.13	3489.24	90.00	1.52	0.00	8914.38	156.96	
505	19688.00	94.53	164.20	10295.83	8999.98	-8290.61	3513.56	91.00	1.61	0.00	9004.41	157.03	
506	19779.00	92.85	164.36	10289.98	9090.37	-8378.02	3538.16	91.00	1.86	0.00	9094.49	157.10	
507	19869.00	91.58	164.77	10286.51	9179.85	-8464.71	3562.09	90.00	1.47	0.00	9183.67	157.18	
508	19960.00	94.22	165.51	10281.90	9270.18	-8552.55	3585.39	91.00	3.01	0.00	9273.68	157.26	
509	20050.00	92.03	163.73	10277.00	9359.58	-8639.19	3609.23	90.00	3.13	0.00	9362.80	157.33	
510	20141.00	90.77	163.77	10274.77	9450.21	-8726.52	3634.68	91.00	1.39	0.00	9453.21	157.39	
511	20231.00	89.48	163.34	10274.57	9539.90	-8812.84	3660.16	90.00	1.51	0.00	9542.69	157.45	
512	20322.00	89.62	163.15	10275.28	9630.63	-8899.97	3686.39	91.00	0.26	0.00	9633.22	157.50	
513	20412.00	91.44	162.50	10274.45	9720.40	-8985.95	3712.97	90.00	2.15	0.00	9722.83	157.55	
514	20503.00	89.31	161.73	10273.85	9811.25	-9072.55	3740.91	91.00	2.49	0.00	9813.54	157.59	
515	20593.00	86.73	161.51	10276.95	9901.08	-9157.90	3769.28	90.00	2.88	0.00	9903.26	157.63	
516	20684.00	86.23	161.90	10282.53	9991.79	-9244.13	3797.79	91.00	0.70	0.00	9993.86	157.67	
517	20775.00	85.53	162.04	10289.07	10082.42	-9330.44	3825.89	91.00	0.79	0.00	10084.37	157.70	
518	20866.00	85.05	161.69	10296.55	10172.99	-9416.62	3854.13	91.00	0.65	0.00	10174.82	157.74	
519	20958.00	81.92	155.84	10306.99	10264.34	-9501.78	3887.21	92.00	7.17	186.80	10266.16	157.75	MWD Run 6
520	21048.00	81.84	155.78	10319.71	10353.31	-9583.05	3923.71	90.00	0.11	0.00	10355.21	157.73	MWD Run 6
521	21139.00	83.28	156.70	10331.50	10443.45	-9665.63	3960.06	91.00	1.87	186.80	10445.41	157.72	MWD Run 6
522	21229.00	85.30	156.82	10340.45	10532.94	-9747.92	3995.40	90.00	2.26	186.80	10534.95	157.71	MWD Run 6
523	21319.00	88.05	156.86	10345.67	10622.73	-9830.52	4030.74	90.00	3.06	0.00	10624.78	157.71	MWD Run 6
524	21410.00	90.83	159.70	10346.56	10713.70	-9915.03	4064.41	91.00	4.36	188.60	10715.75	157.71	MWD Run 6
525	21501.00	90.41	162.28	10345.58	10804.62	-10001.06	4094.05	91.00	2.87	188.60	10806.59	157.74	MWD Run 6
526	21592.00	90.66	164.76	10344.73	10895.31	-10088.31	4119.86	91.00	2.74	190.40	10897.12	157.79	MWD Run 6
527	21682.00	91.02	164.07	10343.41	10984.87	-10174.99	4144.03	90.00	0.86	192.20	10986.51	157.84	MWD Run 6
528	21772.00	91.89	165.16	10341.12	11074.38	-10261.73	4167.90	90.00	1.54	190.40	11075.86	157.90	MWD Run 6
529	21862.00	92.40	165.89	10337.76	11163.70	-10348.81	4190.38	90.00	0.98	190.40	11165.00	157.96	MWD Run 6
530	21953.00	92.90	165.34	10333.55	11253.97	-10436.87	4212.97	91.00	0.81	190.40	11255.10	158.02	MWD Run 6
531	22043.00	92.54	163.76	10329.28	11343.42	-10523.51	4236.91	90.00	1.81	192.20	11344.42	158.07	MWD Run 6
532	22134.00	93.13	164.92	10324.79	11433.88	-10611.03	4261.45	91.00	1.43	190.40	11434.76	158.12	MWD Run 6
533	22225.00	93.88	165.91	10319.22	11524.11	-10698.93	4284.33	91.00	1.37	194.00	11524.86	158.18	MWD Run 6
534	22316.00	94.28	165.83	10312.75	11614.20	-10786.95	4306.49	91.00	0.44	195.80	11614.82	158.24	MWD Run 6
535	22406.00	92.51	166.06	10307.42	11703.35	-10874.10	4328.30	90.00	1.98	192.20	11703.86	158.30	MWD Run 6
536	22497.00	92.40	166.88	10303.53	11793.46	-10962.49	4349.58	91.00	0.91	194.00	11793.85	158.36	MWD Run 6
537	22588.00	92.84	167.28	10299.37	11883.42	-11051.09	4369.90	91.00	0.66	195.80	11883.72	158.42	MWD Run 6
538	22678.00	93.01	166.56	10294.77	11972.41	-11138.64	4390.24	90.00	0.82	192.20	11972.62	158.49	MWD Run 6
539	22768.00	91.47	165.60	10291.25	12061.61	-11225.93	4411.87	90.00	2.02	195.80	12061.76	158.54	MWD Run 6
540	22859.00	91.05	165.23	10289.25	12151.99	-11313.98	4434.78	91.00	0.61	195.80	12152.09	158.60	MWD Run 6
541	22950.00	90.38	163.98	10288.11	12242.52	-11401.70	4458.93	91.00	1.56	195.80	12242.59	158.64	MWD Run 6
542	23041.00	89.37	162.15	10288.31	12333.27	-11488.75	4485.43	91.00	2.30	195.80	12333.31	158.67	MWD Run 6
543	23132.00	90.46	161.92	10288.45	12424.12	-11575.31	4513.51	91.00	1.23	0.00	12424.15	158.70	MWD Run 6
544	23201.00	90.80	162.88	10287.69	12492.98	-11641.08	4534.37	69.00	1.47	194.00	12493.01	158.72	MWD Run 6
545	23260.00	90.80	162.88	10286.87	12551.83	-11697.46	4551.74	59.00	0.01	0.00	12551.85	158.74	MWD Run 6



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 January 24, 2023 through February 13, 2023 conduct
or supervise the taking of a MWD survey from a depth of 9,585 feet to a depth of
23,201 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 Paddle Tail D #553H ST01 Well, A.P.I. No. 42301360810100 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