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District IV  
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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT AS-DRILLED PLAT

<sup>1</sup> API Number 30-015-45058	<sup>2</sup> Pool Code 98220	<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP
<sup>4</sup> Property Code 325590	<sup>5</sup> Property Name Poker Lake Unit 15 Twin Wells Ranch	
<sup>7</sup> OGRID No. 373075	<sup>8</sup> Operator Name XTO PERMIAN OPERATING, LLC.	<sup>6</sup> Well Number 128H
		<sup>9</sup> Elevation 3,567'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	15	24 S	31 E		330	SOUTH	1,230	EAST	EDDY

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	27	24 S	31 E		202	SOUTH	348	EAST	EDDY

<sup>12</sup> Dedicated Acres 640	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.  
NOTE: AS-DRILLED BOTTOM HOLE PLOTTED FROM DATA FURNISHED BY XTO ENERGY

**16 SEC. 15**

**17 OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  
*Cheryl Rowell* 3/11/20  
Signature Date  
Cheryl Rowell  
Printed Name  
cheryl\_rowell@xtoenergy.com  
E-mail Address

**18 SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  
3-11-2020  
Date of Survey  
Signature and Seal of Professional Surveyor:  
  
MARK DILLON HARP 23786  
Certificate Number JC 2017070980

**GEODETIC COORDINATES**  
NAD 27 NME SURFACE LOCATION  
Y = 440,914.2  
X = 677,125.7  
LAT. = 32.210893°N  
LONG. = 103.760640°W

**GEODETIC COORDINATES**  
NAD 83 NME SURFACE LOCATION  
Y = 440,972.9  
X = 718,309.8  
LAT. = 32.211016°N  
LONG. = 103.761123°W

**FIRST TAKE POINT**  
NAD 27 NME  
Y = 440,237.7  
X = 678,006.4  
LAT. = 32.209020°N  
LONG. = 103.757804°W

**FIRST TAKE POINT**  
NAD 83 NME  
Y = 440,296.4  
X = 719,190.6  
LAT. = 32.209144°N  
LONG. = 103.758286°W

**CORNER COORDINATES TABLE**  
NAD 27 NME  
A - Y = 440,591.7 N, X = 678,357.7 E  
B - Y = 440,583.7 N, X = 677,034.9 E  
C - Y = 437,951.4 N, X = 678,374.1 E  
D - Y = 437,942.8 N, X = 677,052.2 E  
E - Y = 435,311.6 N, X = 678,390.4 E  
F - Y = 435,302.7 N, X = 677,069.3 E  
G - Y = 432,666.2 N, X = 678,407.4 E  
H - Y = 432,658.6 N, X = 677,086.5 E  
I - Y = 430,027.6 N, X = 678,423.2 E  
J - Y = 430,019.8 N, X = 677,103.0 E

**CORNER COORDINATES TABLE**  
NAD 83 NME  
A - Y = 440,650.4 N, X = 719,541.9 E  
B - Y = 440,642.4 N, X = 718,219.0 E  
C - Y = 438,010.1 N, X = 719,558.4 E  
D - Y = 438,001.5 N, X = 718,236.4 E  
E - Y = 435,370.2 N, X = 719,574.8 E  
F - Y = 435,361.3 N, X = 718,253.7 E  
G - Y = 432,724.7 N, X = 719,591.9 E  
H - Y = 432,717.2 N, X = 718,271.0 E  
I - Y = 430,086.1 N, X = 719,607.8 E  
J - Y = 430,078.3 N, X = 718,287.6 E

**LAST TAKE POINT**  
NAD 27 NME  
Y = 430,368.9  
X = 678,077.9  
LAT. = 32.181891°N  
LONG. = 103.757744°W

**LAST TAKE POINT**  
NAD 83 NME  
Y = 430,427.4  
X = 719,262.5  
LAT. = 32.182015°N  
LONG. = 103.758225°W

**BOTTOM HOLE LOCATION**  
NAD 27 NME  
Y = 430,228.0  
X = 678,073.7  
LAT. = 32.181504°N  
LONG. = 103.757760°W

**BOTTOM HOLE LOCATION**  
NAD 83 NME  
Y = 430,286.5  
X = 719,258.3  
LAT. = 32.181628°N  
LONG. = 103.758241°W

Intent  As Drilled

API #  
30-015-45058

Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: Poker Lake Unit 15 Twin Wells Ranch	Well Number 128H
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Kick Off Point (KOP)

UL P	Section 15	Township 24S	Range 31E	Lot	Feet 83	From N/S S	Feet 442	From E/W W	County EDDY
Latitude 32.210338					Longitude 103.758575				NAD 83

First Take Point (FTP)

UL A	Section 22	Township 24S	Range 31E	Lot	Feet 432	From N/S N	Feet 360	From E/W E	County EDDY
Latitude 32.208925					Longitude 103.758308				NAD 83

Last Take Point (LTP)

UL P	Section 27	Township 24S	Range 31E	Lot	Feet 355	From N/S S	Feet 338	From E/W W	County EDDY
Latitude 32.182048					Longitude 103.758207				NAD 83

Is this well the defining well for the Horizontal Spacing Unit?  No

Is this well an infill well?  Yes

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #  
30-015-45202

Operator Name: XTO Permian Operating LLC	Property Name: Poker Lake Unit 15 TWR	Well Number 127H
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DIRECTIONAL TECHNOLOGIES

I, Luke Preston , do certify that; I am employed by Mostar Directional Tech. Inc.;;  
that I did on the day(s) of May 14, 2019 to June 17, 2019 conduct or supervise  
the taking of a MWD survey from a depth of 180.00 ft to a depth of 12,295.00 ft. That  
the data is true, correct, complete and within the limitations of the tool as set forth by Mostar Directional.  
This survey was conducted at the request of XTO Energy Inc. for the  
PLU 15 Twin Wells Ranch 128H well, API # 30-015-45202 drilled in  
Eddy County, NM. I have reviewed this report and verify that it conforms to the principles  
and procedures as set forth by Mostar Directional.

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

signature

Luke Preston

MWD Field Operator



**MWD SURVEY CERTIFICATION**  
**Gordon Technologies, LLC**

State Of                     New Mexico                    

County Of                     Eddy                    

I,                     Marcus Mitcham                     certify that; I am employed by Gordon Technologies, LLC.;

that I did on the day(s) of           June 25, 2019           through                     August 1, 2019                     conduct

or supervise the taking of a MWD survey from a depth of                     12,205                     feet to a depth of

          23,066           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                     XTO Permian Operating LLC                     for the

          Poker Lake Unit 15 Twin Wells Ranch 128H           Well, A.P.I. No.                     30-015-45058                     in

          Purple Sage; 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.

\_\_\_\_\_

Signature

\_\_\_\_\_

MWD Coordinator

Title



# Directional Survey Report

Company: <b>XTO Permian Operating LLC</b>	Well Surface Location	Report Date: <b>Aug 07 2019</b>
Well: <b>Poker Lake Unit 15 Twin Wells Ranch 128H ST1</b>	Latitude: <b>32.210893</b>	Time: <b>20:08</b>
County: <b>Eddy</b>	Longitude: <b>-103.760640</b>	Mag Reference: <b>Grid North</b>
State: <b>NM</b>	Reference: <b>NAD 1927</b>	Mag Correction: <b>6.55</b>
Field: <b>Purple Sage; Wolfcamp</b>	Y (Northing): <b>440914.2</b>	Vert Sect. Azi: <b>174.83</b>
API: <b>3001545058</b>	X (Easting): <b>677125.7</b>	Perm Datum: <b>Mean Sea Level</b>
Rig: <b>Patterson 793</b>	Field Engr: <b>Brian Chicola</b>	Depth Ref: <b>Rotary Table</b>
Service Co: <b>Gordon Technologies LLC.</b>	<b>Johnny Young</b>	RKB Height: <b>32</b>
Job #: <b>GT190585</b>		GL Elev: <b>3567</b>
Survey Calc: <b>Minimum Curvature</b>		

Survey	MD	Inc	Azimuth	TVD	VS	Rectangular Offsets			Course			Closure		Source
						NS	EW	0	Length	DLS	Temp	Distance	Azimuth	
Tie In	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	180.00	0.35	204.90	180.00	0.48	-0.50	-0.23	180.00	0.19	0.00	0.55	204.90	Imp Srvys	
2	240.00	0.40	189.62	240.00	0.84	-0.87	-0.34	60.00	0.19	0.00	0.94	201.52	Imp Srvys	
3	301.00	0.50	178.40	301.00	1.31	-1.35	-0.37	61.00	0.22	0.00	1.40	195.43	Imp Srvys	
4	362.00	0.48	173.35	361.99	1.83	-1.87	-0.33	61.00	0.08	0.00	1.90	190.16	Imp Srvys	
5	425.00	0.50	188.50	424.99	2.36	-2.40	-0.34	63.00	0.21	0.00	2.43	188.17	Imp Srvys	
6	523.00	0.50	176.90	522.99	3.20	-3.25	-0.38	98.00	0.10	0.00	3.27	186.75	Imp Srvys	
7	617.00	0.10	200.00	616.99	3.69	-3.74	-0.39	94.00	0.44	0.00	3.76	185.97	Imp Srvys	
8	712.00	0.30	300.90	711.99	3.62	-3.69	-0.63	95.00	0.35	0.00	3.74	189.73	Imp Srvys	
9	775.00	0.40	297.30	774.98	3.40	-3.50	-0.97	63.00	0.16	0.00	3.63	195.47	Imp Srvys	
10	874.00	0.26	292.88	873.98	3.11	-3.26	-1.48	99.00	0.14	0.00	3.58	204.49	Imp Srvys	
11	969.00	0.26	290.42	968.98	2.92	-3.10	-1.88	95.00	0.01	0.00	3.63	211.31	Imp Srvys	
12	1063.00	0.31	296.92	1062.98	2.69	-2.91	-2.31	94.00	0.06	0.00	3.71	218.47	Imp Srvys	
13	1158.00	0.44	297.01	1157.98	2.36	-2.63	-2.86	95.00	0.14	0.00	3.89	227.49	Imp Srvys	
14	1252.00	0.57	292.00	1251.97	1.95	-2.29	-3.62	94.00	0.15	0.00	4.28	237.72	Imp Srvys	
15	1347.00	0.79	297.45	1346.97	1.38	-1.81	-4.64	95.00	0.24	0.00	4.98	248.71	Imp Srvys	
16	1441.00	0.97	302.63	1440.96	0.55	-1.08	-5.88	94.00	0.21	0.00	5.98	259.60	Imp Srvys	
17	1535.00	1.14	307.80	1534.94	-0.58	-0.08	-7.29	94.00	0.21	0.00	7.29	269.39	Imp Srvys	
18	1629.00	1.27	308.43	1628.92	-1.94	1.14	-8.85	94.00	0.14	0.00	8.92	277.36	Imp Srvys	
19	1724.00	1.54	305.27	1723.89	-3.49	2.53	-10.72	95.00	0.30	0.00	11.01	283.31	Imp Srvys	
20	1818.00	1.32	326.36	1817.86	-5.26	4.16	-12.35	94.00	0.60	0.00	13.03	288.64	Imp Srvys	
21	1912.00	1.36	359.76	1911.84	-7.32	6.18	-12.95	94.00	0.82	0.00	14.35	295.52	Imp Srvys	
22	2006.00	1.45	348.78	2005.81	-9.62	8.46	-13.19	94.00	0.30	0.00	15.67	302.69	Imp Srvys	
23	2101.00	1.36	346.49	2100.78	-11.93	10.74	-13.68	95.00	0.11	0.00	17.39	308.12	Imp Srvys	
24	2195.00	1.32	351.85	2194.76	-14.11	12.90	-14.10	94.00	0.14	0.00	19.11	312.45	Imp Srvys	
25	2289.00	1.58	345.96	2288.73	-16.48	15.22	-14.57	94.00	0.32	0.00	21.07	316.27	Imp Srvys	
26	2383.00	1.54	354.84	2382.69	-19.02	17.74	-14.99	94.00	0.26	0.00	23.23	319.79	Imp Srvys	
27	2478.00	1.36	0.82	2477.66	-21.42	20.14	-15.09	95.00	0.25	0.00	25.17	323.15	Imp Srvys	
28	2572.00	1.63	354.75	2571.63	-23.86	22.58	-15.20	94.00	0.33	0.00	27.22	326.06	Imp Srvys	
29	2666.00	1.80	3.19	2665.59	-26.66	25.39	-15.24	94.00	0.32	0.00	29.61	329.03	Imp Srvys	
30	2760.00	1.85	16.37	2759.54	-29.53	28.32	-14.73	94.00	0.45	0.00	31.92	332.52	Imp Srvys	
31	2854.00	2.07	23.58	2853.48	-32.43	31.33	-13.62	94.00	0.35	0.00	34.17	336.50	Imp Srvys	
32	2947.00	2.42	34.39	2946.41	-35.42	34.49	-11.84	93.00	0.59	0.00	36.47	341.05	Imp Srvys	
33	3041.00	2.51	45.82	3040.33	-38.24	37.56	-9.24	94.00	0.53	0.00	38.68	346.17	Imp Srvys	
34	3135.00	2.68	53.46	3134.23	-40.68	40.31	-6.00	94.00	0.41	0.00	40.75	351.53	Imp Srvys	
35	3229.00	2.64	64.01	3228.13	-42.60	42.56	-2.29	94.00	0.52	0.00	42.63	356.92	Imp Srvys	
36	3324.00	2.90	88.18	3323.02	-43.23	43.60	2.08	95.00	1.25	0.00	43.65	2.73	Imp Srvys	
37	3418.00	3.52	92.57	3416.87	-42.71	43.54	7.34	94.00	0.71	0.00	44.16	9.56	Imp Srvys	
38	3513.00	4.35	89.06	3511.65	-42.05	43.47	13.85	95.00	0.91	0.00	45.63	17.67	Imp Srvys	
39	3607.00	5.36	91.17	3605.31	-41.30	43.44	21.81	94.00	1.09	0.00	48.61	26.66	Imp Srvys	
40	3702.00	5.76	91.78	3699.86	-40.23	43.20	31.01	95.00	0.43	0.00	53.18	35.67	Imp Srvys	
41	3796.00	6.07	92.66	3793.36	-38.99	42.83	40.69	94.00	0.34	0.00	59.07	43.53	Imp Srvys	
42	3890.00	6.59	92.84	3886.79	-37.56	42.33	51.04	94.00	0.55	0.00	66.31	50.33	Imp Srvys	
43	3985.00	6.50	95.04	3981.17	-35.84	41.59	61.84	95.00	0.28	0.00	74.52	56.08	Imp Srvys	
44	4079.00	6.33	99.78	4074.58	-33.56	40.24	72.25	94.00	0.59	0.00	82.70	60.88	Imp Srvys	
45	4173.00	6.55	105.14	4167.99	-30.37	37.96	82.53	94.00	0.68	0.00	90.84	65.30	Imp Srvys	
46	4267.00	6.67	107.25	4261.37	-26.42	34.94	92.92	94.00	0.29	0.00	99.27	69.39	Imp Srvys	
47	4298.00	6.73	108.57	4292.16	-25.01	33.83	96.36	31.00	0.53	0.00	102.12	70.66	Imp Srvys	
48	4447.00	8.16	109.75	4439.90	-17.03	27.47	114.59	149.00	0.97	0.00	117.84	76.52	Imp Srvys	

49	4541.00	10.15	116.15	4532.70	-9.92	21.57	128.30	94.00	2.37	0.00	130.10	80.46	Imp Srvys
50	4636.00	12.79	123.70	4625.80	1.04	12.04	144.57	95.00	3.19	0.00	145.07	85.24	Imp Srvys
51	4731.00	15.87	132.15	4717.84	17.19	-2.52	162.95	95.00	3.91	0.00	162.97	90.88	Imp Srvys
52	4838.00	16.30	132.15	4820.65	38.98	-22.41	184.93	107.00	0.40	0.00	186.29	96.91	Imp Srvys
53	4932.00	14.20	129.07	4911.34	56.73	-38.53	203.67	94.00	2.39	0.00	207.28	100.71	Imp Srvys
54	5026.00	12.62	124.76	5002.77	71.36	-51.65	221.06	94.00	1.99	0.00	227.01	103.15	Imp Srvys
55	5121.00	11.65	120.37	5095.65	83.60	-62.42	237.86	95.00	1.41	0.00	245.91	104.70	Imp Srvys
56	5216.00	10.99	116.68	5188.80	93.95	-71.34	254.23	95.00	1.03	0.00	264.04	105.67	Imp Srvys
57	5310.00	9.49	112.02	5281.30	102.22	-78.26	269.42	94.00	1.82	0.00	280.55	106.20	Imp Srvys
58	5405.00	7.08	108.68	5375.31	108.17	-83.08	282.23	95.00	2.59	0.00	294.20	106.40	Imp Srvys
59	5499.00	5.32	103.41	5468.75	111.90	-85.94	291.95	94.00	1.97	0.00	304.34	106.40	Imp Srvys
60	5593.00	4.84	102.53	5562.38	114.50	-87.81	300.06	94.00	0.52	0.00	312.65	106.31	Imp Srvys
61	5688.00	4.40	96.90	5657.08	116.48	-89.12	307.59	95.00	0.66	0.00	320.24	106.16	Imp Srvys
62	5782.00	4.57	97.34	5750.79	118.04	-90.03	314.89	94.00	0.18	0.00	327.51	105.96	Imp Srvys
63	5877.00	4.44	96.02	5845.49	119.57	-90.90	322.30	95.00	0.18	0.00	334.87	105.75	Imp Srvys
64	5971.00	4.26	97.78	5939.22	121.06	-91.76	329.37	94.00	0.24	0.00	341.92	105.57	Imp Srvys
65	6066.00	4.31	95.06	6033.96	122.49	-92.55	336.43	95.00	0.22	0.00	348.92	105.38	Imp Srvys
66	6160.00	4.31	93.74	6127.69	123.66	-93.09	343.47	94.00	0.11	0.00	355.86	105.16	Imp Srvys
67	6254.00	4.53	92.59	6221.41	124.71	-93.49	350.70	94.00	0.25	0.00	362.95	104.93	Imp Srvys
68	6349.00	5.05	89.43	6316.08	125.55	-93.62	358.63	95.00	0.61	0.00	370.65	104.63	Imp Srvys
69	6444.00	5.27	87.15	6410.70	126.06	-93.36	367.17	95.00	0.32	0.00	378.85	104.27	Imp Srvys
70	6538.00	5.76	85.56	6504.26	126.30	-92.78	376.18	94.00	0.55	0.00	387.46	103.85	Imp Srvys
71	6633.00	5.76	87.06	6598.78	126.55	-92.16	385.70	95.00	0.16	0.00	396.56	103.44	Imp Srvys
72	6727.00	5.14	88.02	6692.36	126.96	-91.78	394.62	94.00	0.67	0.00	405.15	103.09	Imp Srvys
73	6821.00	4.53	85.30	6786.02	127.23	-91.33	402.53	94.00	0.69	0.00	412.76	102.78	Imp Srvys
74	6916.00	4.48	87.15	6880.73	127.41	-90.84	409.97	95.00	0.16	0.00	419.91	102.49	Imp Srvys
75	7010.00	4.35	87.94	6974.45	127.75	-90.53	417.20	94.00	0.15	0.00	426.91	102.24	Imp Srvys
76	7104.00	4.35	86.62	7068.18	128.06	-90.19	424.32	94.00	0.11	0.00	433.80	102.00	Imp Srvys
77	7199.00	4.13	89.69	7162.92	128.46	-89.96	431.34	95.00	0.33	0.00	440.62	101.78	Imp Srvys
78	7294.00	4.70	91.89	7257.64	129.23	-90.07	438.65	95.00	0.63	0.00	447.80	101.60	Imp Srvys
79	7388.00	5.45	93.21	7351.27	130.35	-90.44	446.95	94.00	0.81	0.00	456.01	101.44	Imp Srvys
80	7482.00	5.49	89.96	7444.84	131.40	-90.69	455.91	94.00	0.33	0.00	464.84	101.25	Imp Srvys
81	7576.00	6.07	89.52	7538.36	132.21	-90.64	465.37	94.00	0.62	0.00	474.12	101.02	Imp Srvys
82	7671.00	6.77	87.85	7632.76	132.92	-90.39	475.99	95.00	0.76	0.00	484.50	100.75	Imp Srvys
83	7766.00	7.08	88.99	7727.07	133.64	-90.08	487.44	95.00	0.36	0.00	495.70	100.47	Imp Srvys
84	7860.00	6.68	91.54	7820.39	134.70	-90.12	498.70	94.00	0.54	0.00	506.78	100.24	Imp Srvys
85	7954.00	6.33	91.80	7913.79	135.96	-90.43	509.34	94.00	0.37	0.00	517.31	100.07	Imp Srvys
86	8059.00	6.42	92.59	8018.14	137.46	-90.88	520.99	105.00	0.12	0.00	528.86	99.89	Imp Srvys
87	8154.00	6.51	92.16	8112.54	138.86	-91.32	531.68	95.00	0.11	0.00	539.47	99.75	Imp Srvys
88	8247.00	7.03	92.59	8204.89	140.30	-91.78	542.64	93.00	0.56	0.00	550.34	99.60	Imp Srvys
89	8342.00	7.78	93.12	8299.09	142.02	-92.39	554.86	95.00	0.79	0.00	562.50	99.45	Imp Srvys
90	8436.00	9.19	95.23	8392.06	144.29	-93.42	568.69	94.00	1.54	0.00	576.32	99.33	Imp Srvys
91	8526.00	10.77	97.43	8480.70	147.42	-95.17	584.19	90.00	1.81	0.00	591.89	99.25	Imp Srvys
92	8620.00	10.64	95.76	8573.06	150.98	-97.17	601.53	94.00	0.36	0.00	609.33	99.18	Imp Srvys
93	8715.00	7.08	92.68	8666.91	153.45	-98.33	616.11	95.00	3.78	0.00	623.91	99.07	Imp Srvys
94	8808.00	5.58	93.83	8759.35	154.94	-98.90	626.35	93.00	1.62	0.00	634.11	98.97	Imp Srvys
95	8903.00	4.97	93.56	8853.94	156.28	-99.46	635.06	95.00	0.64	0.00	642.81	98.90	Imp Srvys
96	8997.00	3.82	103.41	8947.67	157.90	-100.44	642.17	94.00	1.46	0.00	649.98	98.89	Imp Srvys
97	9092.00	3.60	110.70	9042.47	160.21	-102.23	648.04	95.00	0.55	0.00	656.06	98.96	Imp Srvys
98	9187.00	3.34	113.86	9137.29	162.85	-104.40	653.36	95.00	0.34	0.00	661.65	99.08	Imp Srvys
99	9281.00	3.60	108.77	9231.12	165.38	-106.46	658.66	94.00	0.43	0.00	667.21	99.18	Imp Srvys
100	9376.00	4.09	110.44	9325.91	168.05	-108.60	664.66	95.00	0.53	0.00	673.47	99.28	Imp Srvys
101	9470.00	5.05	113.16	9419.61	171.47	-111.40	671.61	94.00	1.05	0.00	680.78	99.42	Imp Srvys
102	9564.00	4.75	110.70	9513.26	175.13	-114.40	679.05	94.00	0.39	0.00	688.62	99.56	Imp Srvys
103	9658.00	3.34	108.33	9607.03	177.92	-116.64	685.29	94.00	1.51	0.00	695.15	99.66	Imp Srvys
104	9745.00	2.80	102.53	9693.90	179.57	-117.90	689.77	87.00	0.72	0.00	699.77	99.70	Imp Srvys
105	9839.00	2.70	106.39	9787.79	181.09	-119.02	694.14	94.00	0.22	0.00	704.27	99.73	Imp Srvys
106	9933.00	2.86	110.52	9881.68	182.92	-120.47	698.46	94.00	0.27	0.00	708.77	99.79	Imp Srvys
107	10028.00	3.03	115.09	9976.56	185.21	-122.36	702.95	95.00	0.30	0.00	713.52	99.87	Imp Srvys
108	10122.00	2.81	114.39	10070.44	187.60	-124.37	707.30	94.00	0.24	0.00	718.15	99.97	Imp Srvys
109	10216.00	2.29	101.91	10164.34	189.29	-125.71	711.23	94.00	0.81	0.00	722.26	100.02	Imp Srvys
110	10310.00	2.07	98.75	10258.27	190.25	-126.35	714.75	94.00	0.27	0.00	725.83	100.03	Imp Srvys
111	10404.00	1.63	109.21	10352.23	191.21	-127.05	717.69	94.00	0.59	0.00	728.85	100.04	Imp Srvys
112	10497.00	1.49	117.91	10445.19	192.41	-128.05	720.01	93.00	0.30	0.00	731.31	100.08	Imp Srvys
113	10590.00	1.98	100.86	10538.15	193.52	-128.92	722.65	93.00	0.76	0.00	734.06	100.12	Imp Srvys
114	10684.00	2.51	74.67	10632.08	193.60	-128.68	726.23	94.00	1.21	0.00	737.55	100.05	Imp Srvys
115	10779.00	3.16	73.08	10726.96	192.70	-127.37	730.75	95.00	0.69	0.00	741.76	99.89	Imp Srvys
116	10872.00	2.64	89.34	10819.84	192.35	-126.60	735.34	93.00	1.04	0.00	746.16	99.77	Imp Srvys

117	10967.00	2.29	92.07	10914.76	192.76	-126.64	739.42	95.00	0.39	0.00	750.19	99.72	Imp Srvys
118	11061.00	1.89	95.23	11008.69	193.27	-126.85	742.84	94.00	0.44	0.00	753.60	99.69	Imp Srvys
119	11156.00	1.85	92.07	11103.64	193.75	-127.05	745.94	95.00	0.12	0.00	756.68	99.67	Imp Srvys
120	11250.00	1.93	95.06	11197.59	194.22	-127.24	749.03	94.00	0.14	0.00	759.76	99.64	Imp Srvys
121	11344.00	1.85	88.38	11291.54	194.60	-127.34	752.12	94.00	0.25	0.00	762.83	99.61	Imp Srvys
122	11438.00	2.33	88.29	11385.48	194.81	-127.24	755.55	94.00	0.51	0.00	766.19	99.56	Imp Srvys
123	11533.00	2.64	99.36	11480.39	195.47	-127.54	759.64	95.00	0.60	0.00	770.27	99.53	Imp Srvys
124	11628.00	2.33	99.71	11575.30	196.52	-128.22	763.70	95.00	0.33	0.00	774.39	99.53	Imp Srvys
125	11723.00	2.20	106.57	11670.23	197.69	-129.07	767.35	95.00	0.32	0.00	778.13	99.55	Imp Srvys
126	11817.00	2.73	97.87	11764.14	198.86	-129.89	771.30	94.00	0.69	0.00	782.16	99.56	Imp Srvys
127	11912.00	3.34	94.44	11859.01	199.83	-130.41	776.30	95.00	0.67	0.00	787.18	99.54	Imp Srvys
128	12006.00	4.04	89.87	11952.81	200.58	-130.62	782.34	94.00	0.81	0.00	793.17	99.48	Imp Srvys
129	12100.00	4.18	90.40	12046.57	201.21	-130.63	789.08	94.00	0.15	0.00	799.82	99.40	Imp Srvys
130	12150.00	4.44	91.10	12096.43	201.59	-130.68	792.83	50.00	0.53	0.00	803.53	99.36	Imp Srvys
131	12205.00	4.58	94.70	12151.26	202.20	-130.90	797.15	55.00	0.57	148.47	807.83	99.33	MWD Run 4
132	12250.00	5.63	120.91	12196.08	203.81	-132.19	800.84	45.00	5.62	146.71	811.67	99.37	MWD Run 5
133	12300.00	7.40	138.94	12245.76	207.87	-135.87	805.06	50.00	5.37	152.00	816.44	99.58	MWD Run 5
134	12345.00	13.18	145.12	12290.02	214.67	-142.27	809.90	45.00	13.06	155.53	822.30	99.96	MWD Run 5
135	12394.00	19.21	144.49	12337.06	226.49	-153.43	817.78	49.00	12.31	157.29	832.05	100.63	MWD Run 5
136	12440.00	25.19	151.01	12379.63	242.00	-168.17	826.93	46.00	14.04	166.12	843.86	101.50	MWD Run 5
137	12490.00	32.07	160.66	12423.52	264.64	-190.04	836.50	50.00	16.54	167.88	857.82	102.80	MWD Run 5
138	12535.00	37.99	167.77	12460.36	290.00	-214.88	843.40	45.00	15.96	169.65	870.34	104.29	MWD Run 5
139	12584.00	43.05	170.52	12497.60	321.67	-246.13	849.35	49.00	10.95	174.94	884.30	106.16	MWD Run 5
140	12629.00	47.33	170.92	12529.31	353.50	-277.63	854.50	45.00	9.53	176.71	898.47	108.00	MWD Run 5
141	12678.00	49.17	172.43	12561.94	390.00	-313.80	859.78	49.00	4.40	160.82	915.26	110.05	MWD Run 6
142	12723.00	50.64	175.50	12590.93	424.41	-348.03	863.39	45.00	6.16	166.12	930.90	111.95	MWD Run 6
143	12772.00	50.86	176.03	12621.93	462.35	-385.87	866.19	49.00	0.95	169.65	948.25	114.01	MWD Run 6
144	12818.00	52.75	175.57	12650.37	498.50	-421.92	868.84	46.00	4.18	173.18	965.87	115.90	MWD Run 6
145	12867.00	56.39	175.90	12678.77	538.41	-461.73	871.81	49.00	7.45	176.71	986.53	117.91	MWD Run 6
146	12912.00	59.72	176.91	12702.58	576.58	-499.84	874.20	45.00	7.64	171.41	1007.00	119.76	MWD Run 7
147	12960.00	65.29	177.43	12724.73	619.10	-542.35	876.29	48.00	11.64	171.41	1030.55	121.75	MWD Run 7
148	13005.00	71.48	177.93	12741.30	660.87	-584.13	877.98	45.00	13.79	178.47	1054.54	123.64	MWD Run 7
149	13055.00	77.94	178.50	12754.48	708.99	-632.31	879.48	50.00	12.97	183.76	1083.19	125.71	MWD Run 7
150	13100.00	84.16	178.14	12761.47	753.33	-676.72	880.78	45.00	13.84	183.76	1110.73	127.54	MWD Run 7
151	13148.00	89.97	178.24	12763.93	801.17	-724.61	882.30	48.00	12.11	185.53	1141.71	129.40	MWD Run 7
152	13242.00	91.85	178.34	12762.44	894.98	-818.55	885.10	94.00	2.00	166.12	1205.59	132.76	MWD Run 8
153	13336.00	93.36	178.10	12758.17	988.72	-912.41	888.02	94.00	1.63	182.00	1273.21	135.78	MWD Run 8
154	13431.00	94.60	177.52	12751.57	1083.36	-1007.11	891.64	95.00	1.44	167.88	1345.10	138.48	MWD Run 9
155	13526.00	91.79	177.05	12746.28	1178.11	-1101.84	896.13	95.00	3.00	185.53	1420.25	140.88	MWD Run 9
156	13620.00	89.30	178.31	12745.38	1271.98	-1195.75	899.94	94.00	2.97	189.06	1496.57	143.03	MWD Run 9
157	13714.00	87.59	176.95	12747.93	1365.83	-1289.63	903.82	94.00	2.32	192.59	1574.82	144.98	MWD Run 9
158	13808.00	87.54	178.42	12751.93	1459.63	-1383.47	907.62	94.00	1.56	194.35	1654.62	146.73	MWD Run 9
159	13903.00	87.93	181.25	12755.68	1554.18	-1478.38	907.89	95.00	3.00	196.12	1734.90	148.45	MWD Run 9
160	13996.00	91.37	184.33	12756.25	1646.26	-1571.25	903.36	93.00	4.96	197.88	1812.42	150.10	MWD Run 9
161	14091.00	91.43	185.42	12753.93	1739.77	-1665.87	895.29	95.00	1.15	176.71	1891.21	151.75	MWD Run 9
162	14185.00	90.92	185.57	12752.00	1832.13	-1759.42	886.29	94.00	0.57	194.35	1970.05	153.26	MWD Run 9
163	14280.00	90.50	185.43	12750.83	1925.48	-1853.98	877.19	95.00	0.47	199.65	2051.02	154.68	MWD Run 9
164	14374.00	91.20	184.67	12749.43	2017.98	-1947.60	868.91	94.00	1.10	194.35	2132.64	155.96	MWD Run 9
165	14469.00	91.54	180.48	12747.16	2112.06	-2042.46	864.65	95.00	4.42	199.65	2217.94	157.06	MWD Run 9
166	14564.00	91.90	179.37	12744.31	2206.64	-2137.41	864.77	95.00	1.23	201.41	2305.72	157.97	MWD Run 9
167	14658.00	90.62	179.48	12742.24	2300.32	-2231.38	865.72	94.00	1.37	208.47	2393.44	158.80	MWD Run 9
168	14753.00	90.00	178.12	12741.73	2395.08	-2326.36	867.71	95.00	1.57	203.18	2482.91	159.55	MWD Run 9
169	14847.00	87.73	175.44	12743.59	2489.00	-2420.18	872.98	94.00	3.74	206.71	2572.81	160.17	MWD Run 9
170	14941.00	88.21	176.40	12746.92	2582.92	-2513.88	879.67	94.00	1.14	210.24	2663.34	160.71	MWD Run 9
171	15036.00	87.65	176.46	12750.35	2677.82	-2608.63	885.58	95.00	0.59	213.76	2754.85	161.25	MWD Run 9
172	15130.00	87.59	176.18	12754.25	2771.71	-2702.36	891.61	94.00	0.30	194.35	2845.64	161.74	MWD Run 9
173	15225.00	87.14	176.11	12758.62	2866.58	-2797.04	897.99	95.00	0.48	203.18	2937.65	162.20	MWD Run 9
174	15319.00	87.76	178.43	12762.80	2960.40	-2890.83	902.46	94.00	2.55	206.71	3028.42	162.66	MWD Run 9
175	15431.00	89.80	178.59	12765.19	3072.13	-3002.77	905.37	112.00	1.83	187.29	3136.29	163.22	MWD Run 10
176	15526.00	89.72	179.01	12765.59	3166.90	-3097.74	907.36	95.00	0.45	190.82	3227.90	163.67	MWD Run 10
177	15621.00	89.64	182.01	12766.12	3261.43	-3192.73	906.51	95.00	3.16	182.00	3318.93	164.15	MWD Run 10
178	15715.00	89.36	180.53	12766.94	3354.83	-3286.70	904.43	94.00	1.60	190.82	3408.87	164.61	MWD Run 10
179	15809.00	89.27	181.43	12768.06	3448.28	-3380.68	902.82	94.00	0.96	192.59	3499.15	165.05	MWD Run 10
180	15903.00	88.43	180.79	12769.95	3541.69	-3474.64	901.00	94.00	1.12	196.12	3589.56	165.46	MWD Run 10
181	15996.00	89.10	180.85	12771.95	3634.16	-3567.61	899.67	93.00	0.72	194.35	3679.30	165.85	MWD Run 10
182	16091.00	89.55	178.66	12773.07	3728.80	-3662.59	900.08	95.00	2.35	199.65	3771.57	166.19	MWD Run 10
183	16186.00	89.36	178.78	12773.97	3823.58	-3757.57	902.20	95.00	0.24	201.41	3864.36	166.50	MWD Run 10
184	16279.00	88.88	178.60	12775.40	3916.35	-3850.53	904.33	93.00	0.55	204.94	3955.30	166.78	MWD Run 10

185	16374.00	90.67	178.19	12775.78	4011.17	-3945.49	906.99	95.00	1.93	203.18	4048.39	167.05	MWD Run 10
186	16468.00	90.59	178.77	12774.74	4104.97	-4039.45	909.48	94.00	0.62	206.71	4140.57	167.31	MWD Run 10
187	16562.00	91.04	180.48	12773.41	4198.63	-4133.43	910.09	94.00	1.88	204.94	4232.44	167.58	MWD Run 10
188	16656.00	90.56	177.77	12772.09	4292.34	-4227.40	911.53	94.00	2.93	203.18	4324.56	167.83	MWD Run 10
189	16750.00	90.50	177.16	12771.22	4386.24	-4321.31	915.69	94.00	0.65	206.71	4417.26	168.04	MWD Run 10
190	16844.00	92.46	180.15	12768.79	4479.99	-4415.24	917.89	94.00	3.80	208.47	4509.64	168.26	MWD Run 10
191	16938.00	93.53	178.68	12763.88	4573.55	-4509.10	918.85	94.00	1.93	201.41	4601.77	168.48	MWD Run 10
192	17032.00	90.28	178.66	12760.76	4667.28	-4603.01	921.03	94.00	3.46	204.94	4694.25	168.68	MWD Run 10
193	17127.00	89.89	179.12	12760.62	4762.04	-4697.99	922.87	95.00	0.63	77.88	4787.78	168.89	MWD Run 10
194	17220.00	89.50	179.02	12761.11	4854.78	-4790.98	924.38	93.00	0.43	196.12	4879.34	169.08	MWD Run 10
195	17315.00	91.76	178.67	12760.07	4949.54	-4885.94	926.30	95.00	2.41	196.12	4972.97	169.27	MWD Run 10
196	17409.00	91.90	178.74	12757.07	5043.27	-4979.87	928.42	94.00	0.17	201.41	5065.68	169.44	MWD Run 10
197	17503.00	91.88	178.77	12753.97	5137.00	-5073.80	930.46	94.00	0.04	206.71	5158.41	169.61	MWD Run 10
198	17597.00	92.04	178.73	12750.75	5230.73	-5167.72	932.51	94.00	0.18	199.65	5251.18	169.77	MWD Run 10
199	17691.00	91.12	179.06	12748.16	5324.45	-5261.67	934.32	94.00	1.04	208.47	5343.98	169.93	MWD Run 10
200	17785.00	90.98	179.29	12746.44	5418.17	-5355.64	935.68	94.00	0.29	208.47	5436.76	170.09	MWD Run 10
201	17879.00	90.95	179.58	12744.85	5511.85	-5449.62	936.60	94.00	0.31	212.00	5529.52	170.25	MWD Run 10
202	17973.00	90.22	178.96	12743.89	5605.56	-5543.61	937.80	94.00	1.02	208.47	5622.37	170.40	MWD Run 10
203	18068.00	88.32	177.49	12745.10	5700.38	-5638.55	940.74	95.00	2.53	210.24	5716.49	170.53	MWD Run 10
204	18163.00	92.19	177.40	12744.68	5795.26	-5733.44	944.98	95.00	4.07	208.47	5810.79	170.64	MWD Run 10
205	18257.00	92.69	179.21	12740.68	5889.00	-5827.31	947.75	94.00	2.00	213.76	5903.87	170.76	MWD Run 10
206	18351.00	92.16	179.78	12736.70	5982.61	-5921.22	948.58	94.00	0.83	215.53	5996.72	170.90	MWD Run 10
207	18445.00	92.19	179.79	12733.14	6076.19	-6015.15	948.93	94.00	0.03	217.29	6089.54	171.04	MWD Run 10
208	18540.00	91.62	179.71	12729.98	6170.78	-6110.10	949.35	95.00	0.61	219.06	6183.41	171.17	MWD Run 10
209	18634.00	91.15	179.45	12727.71	6264.43	-6204.06	950.04	94.00	0.57	219.06	6276.38	171.29	MWD Run 10
210	18728.00	91.96	180.80	12725.15	6358.00	-6298.03	949.83	94.00	1.67	220.82	6369.25	171.42	MWD Run 10
211	18822.00	88.10	181.25	12725.10	6451.43	-6391.99	948.15	94.00	4.13	219.06	6461.93	171.56	MWD Run 10
212	18916.00	89.33	182.53	12727.21	6544.69	-6485.92	945.05	94.00	1.89	220.82	6554.40	171.71	MWD Run 10
213	18940.00	89.47	182.25	12727.46	6568.48	-6509.89	944.05	24.00	1.30	194.35	6577.99	171.75	MWD Run 11
214	19034.00	89.83	182.53	12728.04	6661.66	-6603.81	940.13	94.00	0.49	197.88	6670.39	171.90	MWD Run 11
215	19128.00	88.40	182.50	12729.49	6754.80	-6697.71	936.01	94.00	1.52	203.18	6762.79	172.04	MWD Run 11
216	19222.00	88.40	181.90	12732.12	6847.99	-6791.60	932.40	94.00	0.64	204.94	6855.30	172.18	MWD Run 11
217	19317.00	87.79	181.37	12735.27	6942.27	-6886.51	929.69	95.00	0.85	208.47	6948.98	172.31	MWD Run 11
218	19411.00	87.82	180.62	12738.87	7035.65	-6980.42	928.06	94.00	0.80	210.24	7041.85	172.43	MWD Run 11
219	19505.00	88.52	180.18	12741.88	7129.16	-7074.37	927.40	94.00	0.88	212.00	7134.90	172.53	MWD Run 11
220	19600.00	89.33	179.30	12743.66	7223.79	-7169.35	927.83	95.00	1.26	213.76	7229.14	172.63	MWD Run 11
221	19694.00	90.00	178.03	12744.21	7317.58	-7263.32	930.02	94.00	1.53	215.53	7322.62	172.70	MWD Run 11
222	19788.00	89.89	178.18	12744.30	7411.43	-7357.27	933.13	94.00	0.20	217.29	7416.21	172.77	MWD Run 11
223	19883.00	90.00	178.21	12744.39	7506.26	-7452.22	936.13	95.00	0.12	219.06	7510.79	172.84	MWD Run 11
224	19977.00	91.90	177.64	12742.83	7600.11	-7546.15	939.53	94.00	2.11	219.06	7604.41	172.90	MWD Run 11
225	20070.00	92.13	177.47	12739.56	7692.94	-7639.00	943.49	93.00	0.31	213.76	7697.05	172.96	MWD Run 11
226	20165.00	92.02	177.80	12736.12	7787.77	-7733.86	947.41	95.00	0.37	217.29	7791.67	173.02	MWD Run 11
227	20259.00	91.82	178.08	12732.97	7881.58	-7827.75	950.79	94.00	0.37	212.00	7885.28	173.07	MWD Run 11
228	20354.00	91.29	178.30	12730.39	7976.38	-7922.66	953.79	95.00	0.60	217.29	7979.87	173.14	MWD Run 11
229	20448.00	91.06	178.25	12728.47	8070.19	-8016.60	956.62	94.00	0.25	217.29	8073.48	173.20	MWD Run 11
230	20542.00	90.39	178.94	12727.28	8163.98	-8110.56	958.92	94.00	1.02	219.06	8167.05	173.26	MWD Run 11
231	20636.00	89.89	179.32	12727.05	8257.71	-8204.55	960.35	94.00	0.67	220.82	8260.57	173.32	MWD Run 11
232	20732.00	88.46	179.08	12728.43	8353.42	-8300.53	961.69	96.00	1.51	0.00	8356.05	173.39	MWD Run 11
233	20826.00	88.77	177.97	12730.70	8447.20	-8394.47	964.11	94.00	1.23	208.47	8449.65	173.45	MWD Run 11
234	20920.00	89.58	176.76	12732.05	8541.09	-8488.36	968.43	94.00	1.55	213.76	8543.42	173.49	MWD Run 11
235	21015.00	89.64	175.01	12732.70	8636.07	-8583.11	975.24	95.00	1.84	0.00	8638.34	173.52	MWD Run 11
236	21110.00	91.20	177.10	12732.00	8731.04	-8677.87	981.78	95.00	2.75	215.53	8733.23	173.55	MWD Run 11
237	21204.00	92.35	178.03	12729.09	8824.88	-8771.74	985.77	94.00	1.57	220.82	8826.96	173.59	MWD Run 11
238	21299.00	92.74	177.96	12724.87	8919.64	-8866.59	989.09	95.00	0.42	219.06	8921.59	173.63	MWD Run 11
239	21393.00	92.86	178.45	12720.28	9013.37	-8960.43	992.03	94.00	0.54	219.06	9015.18	173.68	MWD Run 11
240	21487.00	90.76	180.52	12717.31	9107.00	-9054.37	992.88	94.00	3.14	206.71	9108.64	173.74	MWD Run 12
241	21581.00	89.83	178.83	12716.83	9200.66	-9148.36	993.41	94.00	2.05	210.24	9202.14	173.80	MWD Run 12
242	21675.00	90.67	181.85	12716.42	9294.21	-9242.35	992.85	94.00	3.33	213.76	9295.52	173.87	MWD Run 12
243	21770.00	90.48	182.48	12715.47	9388.43	-9337.27	989.26	95.00	0.69	215.53	9389.53	173.95	MWD Run 12
244	21865.00	90.45	182.34	12714.69	9482.60	-9432.19	985.27	95.00	0.15	217.29	9483.51	174.04	MWD Run 12
245	21960.00	90.53	182.51	12713.88	9576.76	-9527.10	981.25	95.00	0.20	219.06	9577.50	174.12	MWD Run 12
246	22053.00	91.06	183.20	12712.59	9668.84	-9619.97	976.62	93.00	0.94	219.06	9669.42	174.20	MWD Run 12
247	22147.00	89.44	181.75	12712.18	9762.00	-9713.88	972.56	94.00	2.31	215.53	9762.44	174.28	MWD Run 12
248	22242.00	89.16	181.72	12713.34	9856.30	-9808.83	969.68	95.00	0.30	220.82	9856.64	174.35	MWD Run 12
249	22335.00	89.78	181.40	12714.20	9948.66	-9901.79	967.15	93.00	0.75	220.82	9948.91	174.42	MWD Run 12
250	22430.00	89.80	181.90	12714.55	10042.98	-9996.75	964.42	95.00	0.53	222.59	10043.16	174.49	MWD Run 12
251	22524.00	88.96	182.18	12715.57	10136.23	-10090.68	961.07	94.00	0.94	222.59	10136.35	174.56	MWD Run 12
252	22618.00	91.37	180.80	12715.30	10229.59	-10184.64	958.63	94.00	2.95	224.35	10229.66	174.62	MWD Run 12



253	22713.00	91.09	181.13	12713.26	10324.02	-10279.61	957.03	95.00	0.46	224.35	10324.06	174.68	MWD Run 12
254	22807.00	91.23	181.04	12711.36	10417.44	-10373.57	955.25	94.00	0.18	226.12	10417.46	174.74	MWD Run 12
255	22902.00	91.15	180.68	12709.38	10511.90	-10468.54	953.82	95.00	0.39	212.00	10511.90	174.79	MWD Run 12
256	22996.00	91.40	181.68	12707.29	10605.30	-10562.49	951.89	94.00	1.10	220.82	10605.30	174.85	MWD Run 12
257	23066.00	91.46	181.82	12705.55	10674.77	-10632.44	949.75	70.00	0.22	222.59	10674.77	174.90	MWD Run 12
258	23120.00	91.46	181.82	12704.17	10728.35	-10686.39	948.03	54.00	0.01	0.00	10728.36	174.93	PTB

