

DEC 31 2019

Form C-102

District I
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Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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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

RECEIVED

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45658		² Pool Code 98220		³ Pool Name PURPLE SAGE; WOLFCAMP	
⁴ Property Code 319562		⁵ Property Name LUSITANO 27-34 FED COM		⁶ Well Number 713H	
⁷ OGRID No. 6137		⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		⁹ Elevation 3335.2	

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	27	25 S	31 E		235	NORTH	1762	WEST	EDDY

¹¹ 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
C	34	25 S	31 E		990	NORTH	2321	WEST	EDDY

¹² Dedicated Acres 200	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSP 2118
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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.

NW CORNER SEC. 27 LAT. = 32.1085472°N LONG. = 103.7744766°W NMSP EAST (FT) N = 403674.44 E = 714373.23 W/4 CORNER SEC. 27 LAT. = 32.1012701°N LONG. = 103.7745461°W NMSP EAST (FT) N = 401027.04 E = 714365.41 SW CORNER SEC. 27 LAT. = 32.0939875°N LONG. = 103.7746005°W NMSP EAST (FT) N = 398377.70 E = 714362.31 W/4 CORNER SEC. 34 LAT. = 32.0867157°N LONG. = 103.7746027°W NMSP EAST (FT) N = 395732.35 E = 714375.33 SW CORNER SEC. 34 LAT. = 32.0794255°N LONG. = 103.7746047°W NMSP EAST (FT) N = 393080.31 E = 714388.46		N89°39'25"E 2652.26 FT 1762' SHL 235' KOP 2647.99 FT AS-DRILLED TOP 103' FNL, 2310' FWL LAT. = 32.1082640°N LONG. = 103.7670197°W NMSP EAST (FT) N = 403584.90 E = 716682.63 LUSITANO 27-34 FED 713H ELEV. = 3335.0' LAT. = 32.1079052°N (NAD83) LONG. = 103.7687931°W NMSP EAST (FT) N = 403450.04 E = 716134.21 S/4 CORNER SEC. 27 LAT. = 32.0940045°N LONG. = 103.7660218°W NMSP EAST (FT) N = 398397.72 E = 717018.91 AS-DRILLED FIRST TAKE POINT 321' FNL, 2351' FWL LAT. = 32.1076705°N LONG. = 103.7668946°W NMSP EAST (FT) N = 403367.77 E = 716722.49 S89°34'05"W 2657.26 FT 2021' LTP 2649.92 FT AS-DRILLED BOTTOM OF HOLE LAT. = 32.0912821°N LONG. = 103.7671078°W NMSP EAST (FT) N = 397405.62 E = 716687.80 AS-DRILLED LAST TAKE POINT 968' FNL, 2320' FWL LAT. = 32.0913699°N LONG. = 103.7671117°W NMSP EAST (FT) N = 397437.55 E = 716686.41 S89°33'49"W 2657.43 FT 2652.66 FT NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE (EAST COORDINATES) MODIFIED TO THE SURFACE. VERTICAL DATUM NAVD83. S89°30'43"W 2661.38 FT		NE CORNER SEC. 27 LAT. = 32.1085597°N LONG. = 103.7573438°W NMSP EAST (FT) N = 403706.92 E = 719678.01 E/4 CORNER SEC. 27 LAT. = 32.1012955°N LONG. = 103.7573925°W NMSP EAST (FT) N = 401064.23 E = 719677.04 SE CORNER SEC. 27 LAT. = 32.0840174°N LONG. = 103.7574330°W NMSP EAST (FT) N = 398416.53 E = 719678.63 E/4 CORNER SEC. 34 LAT. = 32.0794666°N LONG. = 103.7574361°W NMSP EAST (FT) N = 395767.78 E = 719691.82 SE CORNER SEC. 34 LAT. = 32.0794430°N LONG. = 103.7660268°W NMSP EAST (FT) N = 393100.55 E = 717045.23 S00°01'16"W 2643.26 FT S00°01'16"W 2643.26 FT S00°02'04"E 2648.28 FT S00°02'04"E 2648.28 FT S00°17'07"E 2649.37 FT S00°17'07"E 2649.37 FT S00°18'21"E 2645.18 FT S00°18'21"E 2645.18 FT		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. <i>Jenny Harms</i> 11-24-2019 Signature Date JENNY HARMS Printed Name JENNY.HARMS@DVN.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. DECEMBER 17, 2018 Date of Survey <i>William F. Jaramila</i> Signature and Seal of Professional Surveyor Certificate Number: WILLIAM F. JARAMILA 12797 STATE OF NEW MEXICO PROFESSIONAL SURVEYOR NO. 6427C
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RUP 2-18-2020

Intent ☐ As Drilled ☒

API #
30-015-45658

Operator Name: DEVON	Property Name: LUSITANO 27-34 FED	Well Number 713H
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Kick Off Point (KOP)

UL C	Section 27	Township 25S	Range 31E	Lot	Feet 103	From N/S NORTH	Feet 2310	From E/W WEST	County EDDY
Latitude 32.1082680					Longitude 103.7670197			NAD 83	

First Take Point (FTP)

UL C	Section 27	Township 25S	Range 31E	Lot	Feet 321	From N/S NORTH	Feet 2351	From E/W WEST	County EDDY
Latitude 32.1076705					Longitude 103.7668946			NAD 83	

Last Take Point (LTP)

UL C	Section 34	Township 25S	Range 31E	Lot	Feet 958	From N/S NORTH	Feet 2320	From E/W WEST	County EDDY
Latitude 32.0913699					Longitude 103.7671117			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☒

Is this well an infill well? ☐

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

API #
30-015-45658

Operator Name:	Property Name:	Well Number

KZ 06/29/2018



Total Directional
Services, LLC
USA Operations

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 31 2019

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Final MWD Survey Certification

Lea County, New Mexico

Client: Devon Energy

Well Name: Lusitano 27-34 Fed Com 713H

Total Job No: 2019-168-129

API No: 30-015-45658

Start Date: 03/15/2019

End Date: 05/30/2019

Measured Start Depth: 120 feet

Measured End Depth: 18,173 feet

Vertical Section from well center at TD: 5,991.34 feet

I, Trey Beeson, MWD Operator, hereby certify that; I am employed by Total Directional Services, LLC and we conducted or supervised the taking of these open hole MWD surveys at the request of this client. This data is true, correct, complete and within the limitations of the tool as set forth by Total Directional Services, LLC. I am authorized and qualified to make this report and have reviewed this report and find that it conforms to the principals and procedures as set forth by Total Directional Services, LLC.

Date: 05/30/2019

Signed: *Trey Beeson*



Lusitano 27-34 Fed Com 713H

Directional Survey Report

03/18/2019 TO 05/31/2019



Company Name: Devon Energy

Well Name: Lusitano 27-34 Fed Com 713H

Field: Purple Sage (Wolfcamp)

Rig ID: Catcus 129

API/UWI: 30015456580000

State/Prov: New Mexico

County: Eddy

Country: U.S.A.

Location: New Mexico East

Survey Company: Total Directional Service LLC

Job Number: 2019-168-129

Proposed Azimuth: 180.05

Declination: 6.55 KB: 3365

North Reference: Grid

Latitude/Longitude: 32.107906 / -103.768793

Svy	Depth	Inc	Azm	TVD	VS	NS	EW	CD	CA	DLS	Temp
TiLn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	
1	213.00	0.50	6.20	213.00	-0.92	0.92	0.10	0.93	6.20	0.23	
2	304.00	0.80	1.50	303.99	-1.95	1.95	0.16	1.96	4.68	0.33	
3	394.00	0.90	0.90	393.98	-3.29	3.29	0.19	3.29	3.26	0.11	
4	487.00	0.70	357.90	486.97	-4.59	4.59	0.18	4.59	2.22	0.22	
5	579.00	0.40	345.50	578.97	-5.46	5.46	0.08	5.46	0.81	0.35	
6	670.00	0.70	339.60	669.96	-6.29	6.29	-0.20	6.29	358.21	0.34	
7	761.00	0.90	339.00	760.95	-7.48	7.48	-0.65	7.50	355.06	0.22	
8	854.00	1.40	334.00	853.94	-9.18	9.18	-1.41	9.29	351.29	0.55	
9	964.00	1.50	312.40	963.90	-11.35	11.36	-3.06	11.76	344.93	0.50	
10	1,058.00	1.50	309.40	1,057.87	-12.96	12.97	-4.92	13.87	339.23	0.08	
11	1,150.00	1.50	319.10	1,149.84	-14.64	14.64	-6.64	16.08	335.62	0.28	
12	1,242.00	1.20	307.30	1,241.81	-16.13	16.14	-8.19	18.10	333.09	0.44	
13	1,336.00	0.60	278.90	1,335.80	-16.80	16.81	-9.46	19.29	330.63	0.78	
14	1,426.00	1.60	98.60	1,425.79	-16.69	16.69	-8.68	18.82	332.52	2.44	
15	1,517.00	1.30	86.90	1,516.76	-16.55	16.56	-6.40	17.75	338.88	0.46	
16	1,609.00	1.20	91.40	1,608.74	-16.59	16.59	-4.39	17.16	345.18	0.15	
17	1,701.00	0.80	109.50	1,700.73	-16.35	16.35	-2.82	16.60	350.21	0.55	
18	1,796.00	1.10	105.90	1,795.71	-15.88	15.88	-1.32	15.94	355.25	0.32	
19	1,892.00	1.50	93.70	1,891.69	-15.55	15.55	0.82	15.57	3.02	0.50	
20	1,987.00	1.50	78.50	1,986.66	-15.72	15.72	3.28	16.06	11.78	0.42	
21	2,082.00	3.70	68.50	2,081.55	-17.10	17.09	7.35	18.60	23.27	2.36	
22	2,178.00	4.20	61.30	2,177.33	-19.92	19.91	13.32	23.95	33.77	0.73	
23	2,273.00	5.40	61.40	2,271.99	-23.74	23.72	20.29	31.22	40.54	1.26	
24	2,368.00	5.50	67.80	2,366.56	-27.61	27.58	28.43	39.61	45.87	0.65	
25	2,464.00	6.90	70.10	2,462.00	-31.32	31.28	38.11	49.31	50.62	1.48	
26	2,559.00	7.10	82.10	2,556.30	-34.08	34.03	49.30	59.90	55.38	1.55	
27	2,654.00	6.60	78.60	2,650.62	-35.97	35.92	60.46	70.33	59.29	0.69	
28	2,750.00	7.30	69.50	2,745.91	-39.21	39.15	71.58	81.59	61.33	1.36	
29	2,845.00	7.10	74.00	2,840.17	-42.95	42.88	82.88	93.32	62.65	0.63	
30	2,940.00	7.40	70.40	2,934.41	-46.63	46.55	94.29	105.15	63.72	0.57	
31	3,036.00	7.80	69.20	3,029.56	-51.03	50.94	106.20	117.79	64.38	0.45	
32	3,131.00	8.60	69.20	3,123.59	-55.85	55.75	118.87	131.29	64.87	0.84	
33	3,227.00	8.70	74.30	3,218.50	-60.38	60.26	132.57	145.62	65.55	0.81	
34	3,322.00	8.50	80.00	3,312.43	-63.55	63.43	146.40	159.55	66.58	0.92	
35	3,417.00	8.20	79.80	3,406.43	-65.98	65.84	159.98	173.00	67.63	0.32	
36	3,513.00	8.10	76.40	3,501.46	-68.80	68.65	173.29	186.40	68.39	0.51	
37	3,608.00	7.30	81.80	3,595.60	-71.24	71.08	185.77	198.91	69.06	1.13	
38	3,704.00	8.40	83.20	3,690.70	-72.96	72.78	198.77	211.68	69.89	1.16	
39	3,799.00	8.50	77.90	3,784.67	-75.26	75.07	212.53	225.40	70.54	0.83	
40	3,894.00	7.00	75.70	3,878.80	-78.17	77.98	225.00	238.13	70.89	1.61	
41	3,990.00	6.50	81.30	3,974.14	-80.45	80.24	236.04	249.31	71.22	0.86	
42	4,085.00	7.50	82.20	4,068.43	-82.11	81.90	247.50	260.70	71.69	1.06	
43	4,180.00	6.10	65.70	4,162.77	-85.04	84.82	258.25	271.82	71.82	2.52	
44	4,276.00	5.80	63.40	4,258.25	-89.32	89.09	267.23	281.69	71.56	0.40	
45	4,371.00	5.20	60.50	4,352.81	-93.60	93.36	275.27	290.67	71.27	0.70	
46	4,467.00	5.10	68.80	4,448.42	-97.29	97.04	283.04	299.21	71.07	0.78	
47	4,562.00	4.60	77.50	4,543.09	-99.65	99.39	290.69	307.22	71.12	0.93	
48	4,657.00	5.80	69.50	4,637.69	-102.16	101.90	298.91	315.80	71.18	1.47	
49	4,753.00	6.90	65.80	4,733.10	-106.23	105.96	308.71	326.39	71.06	1.22	

Svy	Depth	Inc	Azm	TVD	VS	NS	EW	CD	CA	DLS	Temp
50	4,848.00	6.40	63.10	4,827.46	-110.98	110.70	318.64	337.32	70.84	0.62	
51	4,943.00	6.20	61.90	4,921.89	-115.80	115.51	327.89	347.64	70.59	0.25	
52	5,038.00	6.10	61.40	5,016.34	-120.64	120.34	336.84	357.69	70.34	0.12	
53	5,133.00	5.80	60.00	5,110.83	-125.46	125.16	345.43	367.41	70.08	0.35	
54	5,228.00	5.60	57.20	5,205.36	-130.38	130.07	353.48	376.66	69.80	0.36	
55	5,324.00	5.40	64.70	5,300.92	-134.85	134.54	361.51	385.73	69.59	0.78	
56	5,419.00	5.30	63.50	5,395.51	-138.73	138.41	369.47	394.55	69.46	0.16	
57	5,515.00	4.80	71.80	5,491.14	-141.97	141.64	377.26	402.97	69.42	0.92	
58	5,610.00	5.60	74.80	5,585.74	-144.43	144.09	385.51	411.56	69.51	0.89	
59	5,705.00	5.80	78.40	5,680.28	-146.62	146.28	394.68	420.92	69.66	0.43	
60	5,801.00	6.60	76.80	5,775.71	-148.86	148.51	404.80	431.19	69.85	0.85	
61	5,896.00	7.40	72.70	5,870.01	-151.94	151.58	415.96	442.72	69.98	0.99	
62	5,991.00	7.10	72.10	5,964.25	-155.57	155.20	427.39	454.70	70.04	0.33	
63	6,087.00	6.60	72.30	6,059.56	-159.08	158.70	438.29	466.14	70.10	0.52	
64	6,182.00	7.30	71.10	6,153.86	-162.71	162.32	449.20	477.63	70.13	0.75	
65	6,277.00	6.90	71.40	6,248.13	-166.49	166.09	460.32	489.37	70.16	0.42	
66	6,373.00	6.60	69.20	6,343.47	-170.30	169.89	470.94	500.65	70.16	0.41	
67	6,468.00	7.60	76.90	6,437.74	-173.67	173.25	482.17	512.35	70.24	1.45	
68	6,563.00	7.40	79.20	6,531.93	-176.25	175.82	494.29	524.63	70.42	0.38	
69	6,659.00	7.00	78.10	6,627.17	-178.63	178.19	506.09	536.54	70.60	0.44	
70	6,754.00	6.30	79.80	6,721.53	-180.76	180.30	516.89	547.43	70.77	0.77	
71	6,849.00	5.40	77.00	6,816.03	-182.69	182.23	526.37	557.02	70.90	0.99	
72	6,945.00	5.20	75.50	6,911.62	-184.81	184.34	534.99	565.85	70.99	0.25	
73	7,040.00	4.50	84.60	7,006.29	-186.24	185.77	542.86	573.77	71.11	1.09	
74	7,136.00	3.50	90.20	7,102.05	-186.59	186.11	549.54	580.20	71.29	1.12	
75	7,231.00	2.50	113.10	7,196.92	-185.77	185.29	554.35	584.50	71.52	1.62	
76	7,326.00	2.20	135.50	7,291.84	-183.66	183.17	557.53	586.85	71.81	1.01	
77	7,422.00	1.30	165.00	7,387.80	-181.30	180.81	559.11	587.62	72.08	1.30	
78	7,517.00	1.40	167.80	7,482.77	-179.12	178.63	559.63	587.45	72.30	0.13	
79	7,613.00	1.30	164.40	7,578.75	-176.93	176.44	560.17	587.30	72.52	0.13	
80	7,708.00	1.30	166.30	7,673.72	-174.84	174.35	560.72	587.20	72.73	0.05	
81	7,803.00	1.10	166.00	7,768.70	-172.91	172.42	561.19	587.08	72.92	0.21	
82	7,899.00	1.00	168.90	7,864.69	-171.20	170.71	561.58	586.95	73.09	0.12	
83	7,994.00	1.00	168.50	7,959.67	-169.57	169.08	561.90	586.79	73.25	0.01	
84	8,089.00	1.00	177.20	8,054.66	-167.93	167.44	562.11	586.52	73.41	0.16	
85	8,185.00	0.90	185.30	8,150.64	-166.34	165.85	562.08	586.04	73.56	0.17	
86	8,280.00	0.80	191.70	8,245.63	-164.95	164.46	561.87	585.45	73.69	0.14	
87	8,375.00	0.70	200.80	8,340.63	-163.76	163.27	561.53	584.79	73.79	0.16	136.4
88	8,470.00	0.70	221.70	8,435.62	-162.78	162.29	560.94	583.95	73.86	0.27	136.4
89	8,566.00	1.10	237.00	8,531.61	-161.84	161.35	559.78	582.57	73.92	0.48	138.2
90	8,661.00	1.50	214.30	8,626.58	-160.32	159.83	558.31	580.74	74.03	0.68	140
91	8,756.00	0.90	241.90	8,721.56	-158.94	158.45	556.96	579.06	74.12	0.86	140
92	8,851.00	1.50	239.80	8,816.54	-157.96	157.47	555.22	577.12	74.17	0.63	141.8
93	8,947.00	0.30	291.50	8,912.53	-157.42	156.93	553.90	575.70	74.18	1.39	141.8
94	9,042.00	0.70	330.50	9,007.52	-158.01	157.53	553.39	575.37	74.11	0.53	143.6
95	9,138.00	0.70	330.50	9,103.52	-159.03	158.55	552.81	575.10	74.00	0.00	143.6
96	9,233.00	0.30	296.30	9,198.51	-159.65	159.16	552.30	574.78	73.92	0.51	141.8
97	9,328.00	0.40	235.70	9,293.51	-159.57	159.09	551.80	574.28	73.92	0.38	143.6
98	9,424.00	0.50	229.80	9,389.51	-159.11	158.63	551.21	573.58	73.94	0.11	127.4
99	9,519.00	0.50	219.70	9,484.51	-158.52	158.04	550.62	572.86	73.99	0.09	129.2
100	9,614.00	0.60	223.10	9,579.50	-157.84	157.36	550.02	572.09	74.03	0.11	129.2
101	9,710.00	1.00	224.80	9,675.49	-156.88	156.40	549.09	570.93	74.10	0.42	132.8
102	9,805.00	0.50	299.00	9,770.48	-156.49	156.01	548.14	569.91	74.11	1.04	136.4
103	9,900.00	0.70	357.90	9,865.48	-157.27	156.79	547.75	569.75	74.03	0.65	138.2
104	9,995.00	0.70	13.90	9,960.47	-158.41	157.94	547.87	570.18	73.92	0.21	143.6
105	10,090.00	0.50	22.00	10,055.47	-159.36	158.88	548.17	570.73	73.84	0.23	143.6
106	10,185.00	0.50	1.30	10,150.46	-160.16	159.68	548.33	571.11	73.76	0.19	143.6
107	10,280.00	0.30	336.80	10,245.46	-160.80	160.33	548.24	571.21	73.70	0.27	145.4
108	10,376.00	0.40	328.20	10,341.46	-161.32	160.84	547.97	571.09	73.64	0.12	145.4
109	10,471.00	0.60	311.70	10,436.46	-161.93	161.45	547.42	570.73	73.57	0.26	147.2
110	10,567.00	0.80	276.40	10,532.45	-162.34	161.86	546.38	569.85	73.50	0.48	147.2
111	10,662.00	1.20	252.30	10,627.44	-162.11	161.63	544.77	568.25	73.47	0.60	149
112	10,757.00	1.00	223.70	10,722.42	-161.21	160.73	543.25	566.53	73.52	0.61	147.2
113	10,852.00	0.80	218.10	10,817.41	-160.08	159.61	542.27	565.27	73.60	0.23	150.8
114	10,948.00	0.80	227.90	10,913.40	-159.11	158.63	541.36	564.12	73.67	0.14	150.8

Svy	Depth	Inc	Azm	TVD	VS	NS	EW	CD	CA	DLS	Temp
115	11,043.00	0.30	235.80	11,008.39	-158.52	158.05	540.66	563.29	73.70	0.53	150.8
116	11,138.00	0.30	217.20	11,103.39	-158.18	157.71	540.31	562.85	73.73	0.10	152.6
117	11,233.00	0.10	314.30	11,198.39	-158.04	157.57	540.10	562.61	73.74	0.34	152.6
118	11,329.00	0.40	278.70	11,294.39	-158.15	157.68	539.71	562.27	73.71	0.34	154.4
119	11,424.00	0.30	273.40	11,389.39	-158.22	157.75	539.13	561.73	73.69	0.11	48.2
120	11,502.00	0.30	267.90	11,467.39	-158.22	157.75	538.72	561.34	73.68	0.04	158
121	11,556.00	0.30	262.40	11,521.39	-158.20	157.73	538.44	561.07	73.67	0.05	143.6
122	11,604.00	2.80	159.00	11,569.37	-157.09	156.62	538.74	561.04	73.79	6.01	149
123	11,651.00	7.60	160.40	11,616.16	-153.08	152.61	540.19	561.34	74.22	10.22	149
124	11,695.00	10.10	163.10	11,659.63	-146.65	146.18	542.29	561.65	74.91	5.76	149
125	11,747.00	5.30	149.40	11,711.15	-140.22	139.75	544.84	562.48	75.61	9.82	145.4
126	11,782.00	1.90	139.50	11,746.08	-138.39	137.91	546.04	563.19	75.83	9.84	149
127	11,846.00	6.60	140.70	11,809.89	-134.74	134.26	549.06	565.24	76.26	7.34	170.6
128	11,909.00	19.10	155.00	11,871.20	-122.55	122.06	555.74	568.98	77.61	20.33	168.8
129	12,005.00	39.00	162.60	11,954.73	-79.05	78.55	571.57	576.94	82.17	21.04	168.8
130	12,100.00	58.20	172.10	12,017.34	-9.82	9.30	586.22	586.29	89.09	21.52	170.6
131	12,142.00	66.30	176.80	12,036.88	27.14	-27.65	589.75	590.40	92.68	21.67	170.6
132	12,193.00	73.60	184.80	12,054.38	74.96	-75.47	589.00	593.82	97.30	20.53	168.8
133	12,289.00	82.30	185.10	12,074.41	168.41	-168.92	580.91	604.97	106.21	9.07	174.2
134	12,384.00	85.00	184.10	12,084.91	262.52	-263.02	573.34	630.79	114.64	3.03	179.6
135	12,479.00	85.50	184.60	12,092.78	356.93	-357.42	566.16	669.54	122.26	0.74	179.6
136	12,574.00	87.80	182.60	12,098.33	451.57	-452.06	560.20	719.85	128.90	3.21	185
137	12,669.00	90.60	181.50	12,099.66	546.49	-546.98	556.81	780.53	134.49	3.17	186.8
138	12,764.00	90.90	181.00	12,098.41	641.46	-641.95	554.73	848.43	139.17	0.61	190.4
139	12,859.00	90.40	180.60	12,097.33	736.45	-736.93	553.41	921.59	143.09	0.67	161.6
140	12,955.00	90.20	180.50	12,096.83	832.44	-832.93	552.49	999.50	146.44	0.23	167
141	13,050.00	89.80	180.00	12,096.83	927.44	-927.93	552.07	1,079.74	149.25	0.67	176
142	13,145.00	90.50	178.80	12,096.58	1,022.43	-1,022.92	553.07	1,162.86	151.60	1.46	181.4
143	13,241.00	90.90	179.10	12,095.41	1,118.41	-1,118.89	554.83	1,248.90	153.62	0.52	183.2
144	13,336.00	91.40	181.80	12,093.50	1,213.38	-1,213.86	554.08	1,334.34	155.47	2.89	186.8
145	13,431.00	90.80	181.60	12,091.68	1,308.32	-1,308.80	551.26	1,420.16	157.16	0.67	186.8
146	13,526.00	90.90	180.80	12,090.27	1,403.29	-1,403.77	549.27	1,507.41	158.63	0.85	194
147	13,622.00	90.90	180.80	12,088.76	1,499.27	-1,499.75	547.93	1,596.71	159.93	0.00	194
148	13,717.00	89.80	181.00	12,088.18	1,594.26	-1,594.74	546.44	1,685.76	161.09	1.18	194
149	13,812.00	88.20	179.70	12,089.84	1,689.24	-1,689.71	545.86	1,775.70	162.10	2.17	195.8
150	13,908.00	90.40	180.40	12,091.01	1,785.22	-1,785.70	545.78	1,867.24	163.00	2.40	195.8
151	14,003.00	91.50	181.10	12,089.44	1,880.20	-1,880.68	544.53	1,957.92	163.85	1.37	192.2
152	14,098.00	92.90	181.70	12,085.79	1,975.10	-1,975.58	542.21	2,048.63	164.65	1.60	195.8
153	14,193.00	93.20	181.60	12,080.74	2,069.93	-2,070.40	539.48	2,139.53	165.40	0.33	201.2
154	14,288.00	90.60	180.60	12,077.59	2,164.85	-2,165.32	537.66	2,231.08	166.06	2.93	201.2
155	14,384.00	91.00	180.80	12,076.25	2,260.84	-2,261.31	536.49	2,324.07	166.65	0.47	197.6
156	14,479.00	90.00	180.80	12,075.42	2,355.82	-2,356.29	535.16	2,416.30	167.20	1.05	201.2
157	14,574.00	89.90	179.30	12,075.50	2,450.82	-2,451.29	535.08	2,509.01	167.69	1.58	203
158	14,669.00	90.20	179.80	12,075.42	2,545.82	-2,546.29	535.82	2,602.05	168.12	0.61	203
159	14,765.00	89.10	180.20	12,076.00	2,641.81	-2,642.28	535.82	2,696.06	168.54	1.22	203
160	14,860.00	90.30	179.70	12,076.50	2,736.81	-2,737.28	535.91	2,789.25	168.92	1.37	199.4
161	14,955.00	93.80	180.50	12,073.10	2,831.73	-2,832.20	535.74	2,882.43	169.29	3.78	199.4
162	15,050.00	95.20	180.80	12,065.65	2,926.43	-2,926.90	534.67	2,975.34	169.65	1.51	204.8
163	15,146.00	94.60	180.10	12,057.45	3,022.08	-3,022.55	533.92	3,069.34	169.98	0.96	203
164	15,241.00	95.10	179.90	12,049.42	3,116.74	-3,117.21	533.92	3,162.60	170.28	0.57	201.2
165	15,336.00	94.30	180.50	12,041.63	3,211.42	-3,211.88	533.59	3,255.90	170.57	1.05	203
166	15,431.00	90.70	181.40	12,037.49	3,306.30	-3,306.76	532.01	3,349.29	170.86	3.91	204.8
167	15,526.00	90.30	183.30	12,036.66	3,401.21	-3,401.68	528.12	3,442.43	171.18	2.04	206.6
168	15,621.00	90.10	182.00	12,036.33	3,496.11	-3,496.57	523.73	3,535.58	171.48	1.38	206.6
169	15,717.00	90.90	180.90	12,035.49	3,592.08	-3,592.54	521.30	3,630.16	171.74	1.42	208.4
170	15,812.00	89.40	178.70	12,035.24	3,687.07	-3,687.53	521.63	3,724.24	171.95	2.80	208.4
171	15,907.00	88.20	179.30	12,037.23	3,782.03	-3,782.49	523.29	3,818.51	172.12	1.41	206.6
172	16,002.00	88.40	179.10	12,040.05	3,876.98	-3,877.44	524.61	3,912.77	172.29	0.30	212
173	16,098.00	88.00	177.30	12,043.07	3,972.88	-3,973.34	527.62	4,008.22	172.44	1.92	210.2
174	16,193.00	90.90	177.90	12,043.98	4,067.77	-4,068.24	531.60	4,102.83	172.56	3.12	206.6
175	16,288.00	90.20	176.80	12,043.07	4,162.66	-4,163.13	535.99	4,197.49	172.66	1.37	213.8
176	16,383.00	93.10	180.40	12,040.33	4,257.57	-4,258.04	538.32	4,291.93	172.79	4.86	212
177	16,479.00	93.80	182.30	12,034.55	4,353.36	-4,353.83	536.06	4,386.71	172.98	2.11	213.8
178	16,574.00	93.70	182.10	12,028.34	4,448.09	-4,448.56	532.42	4,480.31	173.18	0.23	217.4
179	16,669.00	92.40	182.10	12,023.29	4,542.90	-4,543.36	528.94	4,574.05	173.36	1.37	213.8

Svy	Depth	Inc	Azm	TVD	VS	NS	EW	CD	CA	DLS	Temp
180	16,765.00	91.30	183.10	12,020.19	4,638.75	-4,639.21	524.59	4,668.77	173.55	1.55	210.2
181	16,860.00	89.60	182.70	12,019.44	4,733.62	-4,734.08	519.79	4,762.53	173.73	1.84	215.6
182	16,955.00	88.90	182.00	12,020.68	4,828.54	-4,828.99	515.89	4,856.47	173.90	1.04	219.2
183	17,051.00	89.50	182.00	12,022.02	4,924.47	-4,924.92	512.54	4,951.52	174.06	0.63	213.8
184	17,146.00	89.40	179.00	12,022.94	5,019.45	-5,019.90	511.71	5,045.92	174.18	3.16	215.6
185	17,241.00	89.60	179.40	12,023.77	5,114.44	-5,114.89	513.04	5,140.56	174.27	0.47	217.4
186	17,337.00	89.30	177.70	12,024.69	5,210.40	-5,210.85	515.47	5,236.28	174.35	1.80	215.6
187	17,432.00	92.10	178.80	12,023.53	5,305.33	-5,305.79	518.37	5,331.05	174.42	3.17	219.2
188	17,528.00	90.60	177.90	12,021.26	5,401.26	-5,401.72	521.13	5,426.80	174.49	1.82	219.2
189	17,623.00	90.90	177.10	12,020.02	5,496.16	-5,496.62	525.27	5,521.66	174.54	0.90	221.0
190	17,718.00	91.00	177.30	12,018.45	5,591.03	-5,591.49	529.91	5,616.55	174.59	0.24	221.0
191	17,814.00	89.70	177.30	12,017.86	5,686.91	-5,687.38	534.44	5,712.44	174.63	1.35	221.0
192	17,909.00	89.20	176.70	12,018.77	5,781.77	-5,782.25	539.41	5,807.35	174.67	0.82	222.8
193	18,004.00	88.70	176.40	12,020.51	5,876.58	-5,877.06	545.12	5,902.29	174.70	0.61	208.4
194	18,100.00	87.60	177.20	12,023.61	5,972.37	-5,972.86	550.48	5,998.17	174.73	1.42	221.0
195	18,119.00	87.60	177.50	12,024.41	5,991.34	-5,991.82	551.36	6,017.13	174.74	1.58	201.2
PTB	18,173.00	87.60	177.50	12,026.67	6,045.24	-6,045.72	553.71	6,071.02	174.77	0.00	201.2

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