

RECEIVED

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
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

JAN 06 2020

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45632	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp
⁴ Property Code 319502	⁵ Property Name LUSITANO 27-34 FED COM	⁶ Well Number 624H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3336.8

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
B	27	25 S	31 E		235	NORTH	1934	EAST	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
O	34	25 S	31 E		225	SOUTH	2286	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
320			

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 = 393080.51 E = 714366.46		N/4 CORNER SEC. 27 LAT. = 32.1085528°N LONG. = 103.7659125°W NMSP EAST (FT) N = 403690.32 E = 717024.86 AS-DRILLED KOP 121' FNL, 2340' FEL LAT. = 32.1082210°N LONG. = 103.7649026°W NMSP EAST (FT) N = 403571.28 E = 717338.24 AS-DRILLED FIRST TAKE POINT 480' FNL, 2302' FEL LAT. = 32.1072344°N LONG. = 103.7647842°W NMSP EAST (FT) N = 403321.56 E = 717376.79 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 NAVD88. AS-DRILLED BOTTOM OF HOLE LAT. = 32.0800642°N LONG. = 103.7648162°W NMSP EAST (FT) N = 393328.49 E = 717418.98 AS-DRILLED LAST TAKE POINT 358' FSL, 1287' FEL LAT. = 32.0804242°N LONG. = 103.7648199°W NMSP EAST (FT) N = 393439.45 E = 717417.16 S/4 CORNER SEC. 27 LAT. = 32.0940045°N LONG. = 103.7660218°W NMSP EAST (FT) N = 398397.72 E = 717018.91 S/4 CORNER SEC. 34 LAT. = 32.0794430°N LONG. = 103.7660268°W NMSP EAST (FT) N = 393100.55 E = 717045.23		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. = 32.0940174°N LONG. = 103.7574330°W NMSP EAST (FT) N = 398410.53 E = 719678.63 E/4 CORNER SEC. 34 LAT. = 32.0867362°N LONG. = 103.7574361°W NMSP EAST (FT) N = 395767.78 E = 719691.82 SE CORNER SEC. 34 LAT. = 32.0794665°N LONG. = 103.7574361°W NMSP EAST (FT) N = 393123.21 E = 719705.93	
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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.

Jenny Harms 1/3/2020
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.

MARCH 28, 2019

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number: JIMON F. JARAMILLO, S 12797

Surveyor License No. 6436A

See New,
WSP (Required GAS well)

RECEIVED

Intent ☐ As Drilled ☒ X

JAN 06 2020

API #

30-015-45032

DISTRICT 7 - ARTESIA O.C.D.

Operator Name:	Property Name:	Well Number
DEVON	LUSITANO 27-34 FED COM	624H

Kick Off Point (KOP)

UL B	Section 27	Township 25S	Range 31E	Lot	Feet 121	From N/S NORTH	Feet 2340	From E/W EAST	County EDDY
Latitude 32.1082210					Longitude 103.7649026			NAD 83	

First Take Point (FTP)

UL B	Section 27	Township 25S	Range 31E	Lot	Feet 480	From N/S NORTH	Feet 2302	From E/W EAST	County EDDY
Latitude 32.1072344					Longitude 103.7647842			NAD 83	

Last Take Point (LTP)

UL O	Section 34	Township 25S	Range 31E	Lot	Feet 356	From N/S SOUTH	Feet 2287	From E/W EAST	County EDDY
Latitude 32.0804242					Longitude 103.7648199			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 #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018



Total Directional
Services, LLC

USA Operations

Final MWD Survey Certification

Eddy County, New Mexico

Client: Devon Energy

Well Name: Lusitano 27-34 Fed Com 624H

Total Job No: 2019-252-103

API No: 30-015-45632

Start Date: 4/8/2019

End Date: 06/18/2019

Measured Start Depth: 211 feet

Measured End Depth with PTB: 21,845 feet

I, Blair Kenzle, & Mike Bolen, MWD Operators, 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: 6/18/2019

Signed: Blair Kenzle, Mike Bolen



driven. TOTALLY by performance.

Directional Survey Report

Company Name: Devon Energy
Well Name: Lusitano 27-34 Fed Com 624H
Field: Delaware
Rig ID: Cactus 103

State/Prov: NM
County: Eddy
Location: Sec 27, Twnshp 25 South, Range 31 East N.M.P.M.
API/UWI: 30-015-45632

Survey Company: Total Directional Services LLC
Job Number: 2019-252-103
Elevation: 32.107909
Longitude: -103.763593

Proposed Azimuth: 181.97
Declination: 6.84
North Reference: Grid
KB: 3361.5

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	Northing	Easting	Build	Turn
Tiein	0	0	0	0	0	0	0	0	0	403,459.82	717,744.29	0	0
1	211	0.80	251.80	210.99	-0.46	-1.40	0.51	0.38	211	403,459.36	717,742.89	0.38	34.03
2	303	0.90	239	302.98	-1.03	-2.63	1.12	0.23	92	403,458.79	717,741.66	0.11	-13.91
3	395	1.30	238.80	394.97	-1.95	-4.14	2.09	0.43	92	403,457.87	717,740.15	0.43	-0.22
4	486	1.30	243.10	485.94	-2.95	-5.94	3.15	0.11	91	403,456.87	717,738.35	0	4.73
5	578	1.20	239.10	577.92	-3.91	-7.70	4.18	0.14	92	403,455.91	717,736.59	-0.11	-4.35
6	671	1.20	235.80	670.90	-4.96	-9.34	5.28	0.07	93	403,454.86	717,734.95	0	-3.55
7	761	1	231.80	760.88	-5.98	-10.74	6.34	0.24	90	403,453.84	717,733.55	-0.22	-4.44
8	844	0.80	224.50	843.87	-6.84	-11.71	7.24	0.28	83	403,452.98	717,732.58	-0.24	-8.80
9	1009	1.10	218.50	1,008.85	-8.90	-13.51	9.36	0.19	165	403,450.92	717,730.78	0.18	-3.64
10	1071	1.60	223.10	1,070.83	-10.00	-14.47	10.49	0.82	62	403,449.82	717,729.82	0.81	7.42
11	1163	0.90	275.80	1,162.81	-10.86	-16.07	11.41	1.39	92	403,448.96	717,728.22	-0.76	57.28
12	1254	1.80	301.20	1,253.79	-10.05	-18.00	10.66	1.16	91	403,449.77	717,726.29	0.99	27.91
13	1284	1.90	298.60	1,283.77	-9.57	-18.84	10.21	0.44	30	403,450.25	717,725.45	0.33	-8.67
14	1375	2.20	307.10	1,374.71	-7.79	-21.56	8.53	0.47	91	403,452.03	717,722.73	0.33	9.34
15	1465	2.60	309.70	1,464.64	-5.45	-24.51	6.28	0.46	90	403,454.37	717,719.78	0.44	2.89
16	1556	3.40	308.60	1,555.51	-2.44	-28.20	3.41	0.88	91	403,457.38	717,716.09	0.88	-1.21
17	1647	4.60	310.20	1,646.29	1.60	-33.10	-0.46	1.32	91	403,461.42	717,711.19	1.32	1.76
18	1741	5.10	311.80	1,739.95	6.81	-39.09	-5.47	0.55	94	403,466.63	717,705.20	0.53	1.70
19	1835	4.80	309.70	1,833.60	12.11	-45.23	-10.55	0.37	94	403,471.93	717,699.06	-0.32	-2.23
20	1929	4.70	307.70	1,927.28	16.98	-51.31	-15.20	0.21	94	403,476.80	717,692.98	-0.11	-2.13
21	2023	5.40	297.60	2,020.91	21.38	-58.27	-19.37	1.20	94	403,481.20	717,686.02	0.74	-10.74
22	2117	5.60	297.10	2,114.48	25.52	-66.28	-23.23	0.22	94	403,485.34	717,678.01	0.21	-0.53
23	2211	5.60	295.90	2,208.03	29.61	-74.48	-27.04	0.12	94	403,489.43	717,669.81	0	-1.28
24	2305	5.60	293.10	2,301.58	33.42	-82.83	-30.55	0.29	94	403,493.24	717,661.46	0	-2.98
25	2400	5.30	288.80	2,396.15	36.65	-91.25	-33.49	0.53	95	403,496.47	717,653.04	-0.32	-4.53
26	2494	5.10	289.70	2,489.77	39.46	-99.29	-36.02	0.23	94	403,499.28	717,645.00	-0.21	0.96
27	2588	4.70	287.40	2,583.42	42.02	-106.90	-38.32	0.47	94	403,501.84	717,637.39	-0.43	-2.45
28	2683	4.60	282.40	2,678.11	44.00	-114.33	-40.04	0.44	95	403,503.82	717,629.96	-0.11	-5.26
29	2777	3.90	277.50	2,771.85	45.22	-121.18	-41.03	0.84	94	403,505.04	717,623.11	-0.74	-5.21
30	2872	4.30	278.40	2,866.61	46.17	-127.91	-41.74	0.43	95	403,505.99	717,616.38	0.42	0.95
31	2966	4.40	273.20	2,960.34	46.88	-135.00	-42.21	0.43	94	403,506.70	717,609.29	0.11	-5.53
32	3061	4.60	278.40	3,055.05	47.64	-142.40	-42.72	0.48	95	403,507.46	717,601.89	0.21	5.47
33	3155	4.10	280.90	3,148.77	48.83	-149.43	-43.66	0.57	94	403,508.65	717,594.86	-0.53	2.66

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	Northing	Easting	Build	Turn
34	3249	4.10	278.20	3,242.53	49.94	-156.06	-44.55	0.21	94	403,509.76	717,588.23	0	-2.87
35	3343	4.50	290.40	3,336.27	51.71	-162.84	-46.08	1.06	94	403,511.53	717,581.45	0.43	12.98
36	3437	3.80	293.90	3,430.02	54.26	-169.14	-48.41	0.79	94	403,514.08	717,575.15	-0.74	3.72
37	3531	3	301.80	3,523.86	56.81	-174.08	-50.80	0.98	94	403,516.63	717,570.21	-0.85	8.40
38	3625	4.30	303.80	3,617.67	60.07	-179.10	-53.88	1.39	94	403,519.89	717,565.19	1.38	2.13
39	3719	4.20	303.80	3,711.41	63.95	-184.89	-57.55	0.11	94	403,523.77	717,559.40	-0.11	0
40	3813	3.70	308.40	3,805.18	67.74	-190.13	-61.17	0.63	94	403,527.56	717,554.16	-0.53	4.89
41	3907	3	313.50	3,899.02	71.32	-194.29	-64.60	0.81	94	403,531.14	717,550.00	-0.74	5.43
42	4001	3.10	297.70	3,992.89	74.20	-198.32	-67.33	0.90	94	403,534.02	717,545.97	0.11	-16.81
43	4095	3.90	288.70	4,086.72	76.40	-203.60	-69.36	1.03	94	403,536.22	717,540.69	0.85	-9.57
44	4189	4.70	283.40	4,180.45	78.32	-210.38	-71.04	0.95	94	403,538.14	717,533.91	0.85	-5.64
45	4283	5.70	283.60	4,274.06	80.31	-218.66	-72.75	1.06	94	403,540.13	717,525.63	1.06	-0.21
46	4377	5.60	284.80	4,367.61	82.58	-227.63	-74.71	0.16	94	403,542.40	717,516.66	-0.11	-1.28
47	4471	5.40	285	4,461.17	84.90	-236.34	-76.72	0.21	94	403,544.72	717,507.95	-0.21	0.21
48	4565	5.30	285.50	4,554.76	87.20	-244.79	-78.73	0.12	94	403,547.02	717,499.50	-0.11	0.53
49	4659	5.10	287.70	4,648.38	89.63	-252.96	-80.88	0.30	94	403,549.45	717,491.33	-0.21	2.34
50	4754	4.90	287.40	4,743.02	92.13	-260.85	-83.11	0.21	95	403,551.95	717,483.44	-0.21	-0.32
51	4848	5.10	285.90	4,836.66	94.47	-268.70	-85.18	0.25	94	403,554.29	717,475.59	0.21	-1.60
52	4942	5.30	285.10	4,930.27	96.75	-276.91	-87.17	0.23	94	403,556.57	717,467.38	0.21	-0.85
53	5036	5.20	285.90	5,023.88	99.05	-285.20	-89.18	0.13	94	403,558.87	717,459.09	-0.11	0.85
54	5130	5.20	284.50	5,117.49	101.28	-293.42	-91.13	0.13	94	403,561.10	717,450.87	0	-1.49
55	5224	5	282.80	5,211.12	103.25	-301.54	-92.83	0.27	94	403,563.07	717,442.75	-0.21	-1.81
56	5318	4.50	281.40	5,304.79	104.89	-309.15	-94.20	0.55	94	403,564.71	717,435.14	-0.53	-1.49
57	5412	4.70	280.90	5,398.49	106.35	-316.54	-95.40	0.22	94	403,566.17	717,427.75	0.21	-0.53
58	5507	4.60	280.20	5,493.18	107.76	-324.12	-96.55	0.12	95	403,567.58	717,420.17	-0.11	-0.74
59	5601	5	288.20	5,586.85	109.71	-331.72	-98.24	0.83	94	403,569.53	717,412.57	0.43	8.51
60	5694	5.50	286.40	5,679.46	112.23	-339.84	-100.48	0.57	93	403,572.05	717,404.45	0.54	-1.94
61	5789	5.40	283.50	5,774.03	114.56	-348.56	-102.51	0.31	95	403,574.38	717,395.73	-0.11	-3.05
62	5883	5.30	282.60	5,867.62	116.54	-357.09	-104.19	0.14	94	403,576.36	717,387.20	-0.11	-0.96
63	5977	5	284.30	5,961.24	118.50	-365.30	-105.87	0.36	94	403,578.32	717,378.99	-0.32	1.81
64	6071	4.30	281.10	6,054.93	120.19	-372.73	-107.30	0.79	94	403,580.01	717,371.56	-0.74	-3.40
65	6165	3.30	282.20	6,148.72	121.44	-378.83	-108.34	1.07	94	403,581.26	717,365.46	-1.06	-1.17
66	6260	2.90	286.80	6,243.59	122.71	-383.80	-109.44	0.50	95	403,582.53	717,360.49	-0.42	4.84
67	6354	2.90	285	6,337.46	124.01	-388.38	-110.59	0.10	94	403,583.83	717,355.91	0	-1.91
68	6447	2.60	286.10	6,430.36	125.21	-392.68	-111.63	0.33	93	403,585.03	717,351.61	-0.32	1.18
69	6541	1.90	274.50	6,524.29	125.92	-396.28	-112.22	0.88	94	403,585.74	717,348.01	-0.74	-12.34
70	6635	1.30	236.40	6,618.25	125.45	-398.72	-111.67	1.26	94	403,585.27	717,345.57	-0.64	-40.53
71	6729	0.20	146.40	6,712.24	124.73	-399.52	-110.92	1.40	94	403,584.55	717,344.77	-1.17	-95.74
72	6823	0	164.20	6,806.24	124.59	-399.43	-110.78	0.21	94	403,584.41	717,344.86	-0.21	18.94
73	6917	0.20	299	6,900.24	124.67	-399.57	-110.86	0.21	94	403,584.49	717,344.72	0.21	143.40
74	7011	0.30	348.40	6,994.24	124.99	-399.76	-111.17	0.24	94	403,584.81	717,344.53	0.11	52.55
75	7105	0.30	14.70	7,088.24	125.47	-399.75	-111.65	0.15	94	403,585.29	717,344.54	0	-163.51
76	7199	1	48.70	7,182.23	126.25	-399.07	-112.45	0.82	94	403,586.07	717,345.22	0.74	36.17
77	7293	0.90	42.50	7,276.22	127.33	-397.96	-113.58	0.15	94	403,587.15	717,346.33	-0.11	-6.60
78	7388	0.80	39.90	7,371.21	128.39	-397.03	-114.67	0.11	95	403,588.21	717,347.26	-0.11	-2.74

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	Northing	Easting	Build	Turn
79	7481	0.70	39.80	7,464.20	129.33	-396.25	-115.63	0.11	93	403,589.15	717,348.04	-0.11	-0.11
80	7575	0.60	44.40	7,558.20	130.12	-395.54	-116.45	0.12	94	403,589.94	717,348.75	-0.11	4.89
81	7669	0.60	58.40	7,652.19	130.73	-394.77	-117.08	0.16	94	403,590.55	717,349.52	0	14.89
82	7763	0.60	45.70	7,746.19	131.33	-394.00	-117.71	0.14	94	403,591.15	717,350.29	0	-13.51
83	7857	0.50	40.70	7,840.18	131.99	-393.38	-118.38	0.12	94	403,591.81	717,350.91	-0.11	-5.32
84	7951	0.30	63.80	7,934.18	132.41	-392.89	-118.82	0.27	94	403,592.23	717,351.40	-0.21	24.57
85	8045	0.30	54.20	8,028.18	132.66	-392.47	-119.09	0.05	94	403,592.48	717,351.82	0	-10.21
86	8140	0.20	49.40	8,123.18	132.91	-392.14	-119.35	0.11	95	403,592.73	717,352.15	-0.11	-5.05
87	8234	0.10	343.30	8,217.18	133.10	-392.04	-119.54	0.20	94	403,592.92	717,352.25	-0.11	121.17
88	8327	0.20	304.90	8,310.18	133.27	-392.20	-119.71	0.15	93	403,593.09	717,352.09	0.11	-41.29
89	8421	0.20	262.60	8,404.18	133.34	-392.50	-119.77	0.15	94	403,593.16	717,351.79	0	-45
90	8515	0.50	261.30	8,498.17	133.26	-393.07	-119.67	0.32	94	403,593.08	717,351.22	0.32	-1.38
91	8609	0.30	251.10	8,592.17	133.11	-393.70	-119.50	0.23	94	403,592.93	717,350.59	-0.21	-10.85
92	8704	0.50	233.70	8,687.17	132.79	-394.27	-119.16	0.24	95	403,592.61	717,350.02	0.21	-18.32
93	8795	0.80	268.60	8,778.16	132.54	-395.23	-118.87	0.53	91	403,592.36	717,349.06	0.33	38.35
94	8892	0.70	225.20	8,875.16	132.10	-396.33	-118.40	0.58	97	403,591.92	717,347.96	-0.10	-44.74
95	8986	1.20	155.90	8,969.15	130.80	-396.33	-117.10	1.23	94	403,590.62	717,347.96	0.53	-73.72
96	9080	1.70	148	9,063.12	128.72	-395.19	-115.06	0.57	94	403,588.54	717,349.10	0.53	-8.40
97	9174	0.70	133.20	9,157.09	127.14	-394.03	-113.52	1.11	94	403,586.96	717,350.26	-1.06	-15.74
98	9268	0.50	140.50	9,251.09	126.44	-393.35	-112.84	0.23	94	403,586.26	717,350.94	-0.21	7.77
99	9362	0.70	143	9,345.08	125.66	-392.75	-112.08	0.21	94	403,585.48	717,351.54	0.21	2.66
100	9456	0.70	157.90	9,439.08	124.67	-392.18	-111.11	0.19	94	403,584.49	717,352.11	0	15.85
101	9551	0.80	169.80	9,534.07	123.48	-391.85	-109.94	0.19	95	403,583.30	717,352.44	0.11	12.53
102	9645	0.50	156	9,628.06	122.46	-391.57	-108.93	0.36	94	403,582.28	717,352.72	-0.32	-14.68
103	9739	0.20	28.60	9,722.06	122.23	-391.32	-108.70	0.68	94	403,582.05	717,352.97	-0.32	-135.53
104	9833	0.20	47.10	9,816.06	122.48	-391.12	-108.97	0.07	94	403,582.30	717,353.17	0	19.68
105	9927	0.20	355.50	9,910.06	122.76	-391.01	-109.24	0.19	94	403,582.58	717,353.28	0	136.60
106	10021	0.40	41.20	10,004.06	123.17	-390.81	-109.66	0.32	94	403,582.99	717,353.48	0.21	-142.87
107	10115	0.20	27.70	10,098.06	123.56	-390.52	-110.06	0.22	94	403,583.38	717,353.77	-0.21	-14.36
108	10209	0.40	256.50	10,192.06	123.63	-390.76	-110.12	0.59	94	403,583.45	717,353.53	0.21	51.91
109	10303	1.10	250.50	10,286.05	123.25	-391.93	-109.71	0.75	94	403,583.07	717,352.36	0.74	-6.38
110	10397	1.20	244	10,380.03	122.52	-393.67	-108.91	0.17	94	403,582.34	717,350.62	0.11	-6.91
111	10491	1.20	238.20	10,474.01	121.57	-395.39	-107.91	0.13	94	403,581.39	717,348.90	0	-6.17
112	10585	1.10	213.60	10,567.99	120.30	-396.72	-106.59	0.53	94	403,580.12	717,347.57	-0.11	-26.17
113	10679	1.20	206.20	10,661.97	118.66	-397.66	-104.92	0.19	94	403,578.48	717,346.63	0.11	-7.87
114	10773	1.60	197.70	10,755.94	116.53	-398.49	-102.76	0.48	94	403,576.35	717,345.80	0.43	-9.04
115	10867	1.10	207.20	10,849.92	114.48	-399.30	-100.68	0.58	94	403,574.30	717,344.99	-0.53	10.11
116	10961	0.80	231	10,943.90	113.26	-400.23	-99.44	0.52	94	403,573.08	717,344.06	-0.32	25.32
117	11055	1.10	248.10	11,037.89	112.51	-401.57	-98.64	0.44	94	403,572.33	717,342.72	0.32	18.19
118	11149	1.30	259.40	11,131.87	111.98	-403.46	-98.05	0.33	94	403,571.80	717,340.83	0.21	12.02
119	11208	1.40	260	11,190.85	111.73	-404.83	-97.75	0.17	59	403,571.55	717,339.46	0.17	1.02
120	11283	1.50	257.80	11,265.83	111.37	-406.69	-97.32	0.15	75	403,571.19	717,337.60	0.13	-2.93
121	11378	8.50	182.20	11,360.46	104.07	-408.17	-89.98	8.69	95	403,563.89	717,336.12	7.37	-79.58
122	11473	19.90	181.50	11,452.40	80.82	-408.87	-66.72	12.00	95	403,540.64	717,335.42	12	-0.74
123	11520	24.70	179.30	11,495.87	62.99	-408.96	-48.90	10.36	47	403,522.81	717,335.33	10.21	-4.68

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	Northing	Easting	Build	Turn
124	11569	28.80	174.40	11,539.63	41.00	-407.68	-26.96	9.49	49	403,500.82	717,336.61	8.37	-10
125	11664	40	170.20	11,617.90	-12.04	-400.23	25.79	12.04	95	403,447.78	717,344.06	11.79	-4.42
126	11759	51	172	11,684.39	-78.89	-389.86	92.24	11.66	95	403,380.93	717,354.43	11.58	1.89
127	11854	63.80	171.50	11,735.46	-157.93	-378.37	170.84	13.48	95	403,301.89	717,365.92	13.47	-0.53
128	11901	70.30	172.30	11,753.78	-200.75	-372.29	213.43	13.92	47	403,259.07	717,372.00	13.83	1.70
129	11950	75.50	176.10	11,768.19	-247.32	-367.58	259.81	12.94	49	403,212.50	717,376.71	10.61	7.76
130	11997	78	176.80	11,778.96	-292.98	-364.75	305.34	5.51	47	403,166.84	717,379.54	5.32	1.49
131	12045	79.20	176.90	11,788.45	-339.96	-362.16	352.21	2.51	48	403,119.86	717,382.13	2.50	0.21
132	12092	85.20	177.10	11,794.82	-386.44	-359.73	398.58	12.77	47	403,073.38	717,384.56	12.77	0.43
133	12140	91.30	176.70	11,796.29	-434.32	-357.13	446.34	12.74	48	403,025.50	717,387.16	12.71	-0.83
134	12235	90.90	177.70	11,794.46	-529.19	-352.49	541.00	1.13	95	402,930.63	717,391.80	-0.42	1.05
135	12331	91.30	176.20	11,792.62	-625.04	-347.39	636.61	1.62	96	402,834.78	717,396.90	0.42	-1.56
136	12426	90.80	177.40	11,790.88	-719.87	-342.08	731.20	1.37	95	402,739.95	717,402.21	-0.53	1.26
137	12521	92.20	179.10	11,788.39	-814.79	-339.18	825.97	2.32	95	402,645.03	717,405.11	1.47	1.79
138	12617	90.50	180.30	11,786.13	-910.75	-338.68	921.86	2.17	96	402,549.07	717,405.61	-1.77	1.25
139	12712	89.90	179.30	11,785.80	-1,005.75	-338.35	1,016.79	1.23	95	402,454.07	717,405.94	-0.63	-1.05
140	12807	90.20	179	11,785.72	-1,100.74	-336.94	1,111.67	0.45	95	402,359.08	717,407.35	0.32	-0.32
141	12902	89.80	178.40	11,785.72	-1,195.72	-334.79	1,206.52	0.76	95	402,264.10	717,409.50	-0.42	-0.63
142	12998	89.30	180.30	11,786.47	-1,291.70	-333.70	1,302.41	2.05	96	402,168.12	717,410.59	-0.52	1.98
143	13093	90.60	180.80	11,786.55	-1,386.69	-334.61	1,397.38	1.47	95	402,073.13	717,409.68	1.37	0.53
144	13188	90.20	180.80	11,785.89	-1,481.68	-335.94	1,492.36	0.42	95	401,978.14	717,408.35	-0.42	0
145	13284	90.40	181	11,785.39	-1,577.67	-337.44	1,588.34	0.29	96	401,882.15	717,406.85	0.21	0.21
146	13379	89	179.90	11,785.89	-1,672.66	-338.19	1,683.30	1.87	95	401,787.16	717,406.10	-1.47	-1.16
147	13474	88.90	180.30	11,787.63	-1,767.65	-338.36	1,778.23	0.43	95	401,692.17	717,405.93	-0.11	0.42
148	13569	93.90	182.10	11,785.31	-1,862.56	-340.34	1,873.16	5.59	95	401,597.26	717,403.95	5.26	1.89
149	13664	90.60	181.60	11,781.58	-1,957.43	-343.41	1,968.07	3.51	95	401,502.39	717,400.88	-3.47	-0.53
150	13759	90.60	182.10	11,780.58	-2,052.37	-346.47	2,063.07	0.53	95	401,407.45	717,397.82	0	0.53
151	13854	89.40	181.80	11,780.58	-2,147.31	-349.70	2,158.07	1.30	95	401,312.51	717,394.59	-1.26	-0.32
152	13950	88.10	180.50	11,782.68	-2,243.27	-351.63	2,254.03	1.91	96	401,216.55	717,392.66	-1.35	-1.35
153	14045	93.10	181.50	11,781.68	-2,338.22	-353.29	2,348.98	5.37	95	401,121.60	717,391.00	5.26	1.05
154	14140	93.80	181.90	11,775.96	-2,433.00	-356.10	2,443.81	0.85	95	401,026.82	717,388.19	0.74	0.42
155	14235	92.90	182.20	11,770.41	-2,527.78	-359.49	2,538.64	1.00	95	400,932.04	717,384.80	-0.95	0.32
156	14330	90.90	181.40	11,767.26	-2,622.67	-362.48	2,633.58	2.27	95	400,837.15	717,381.81	-2.11	-0.84
157	14426	90.10	181.30	11,766.43	-2,718.64	-364.74	2,729.57	0.84	96	400,741.18	717,379.55	-0.83	-0.10
158	14521	89.70	181	11,766.59	-2,813.62	-366.64	2,824.56	0.53	95	400,646.20	717,377.65	-0.42	-0.32
159	14616	88.50	180.60	11,768.08	-2,908.60	-367.97	2,919.53	1.33	95	400,551.22	717,376.32	-1.26	-0.42
160	14712	87.30	180.10	11,771.60	-3,004.53	-368.56	3,015.43	1.35	96	400,455.29	717,375.73	-1.25	-0.52
161	14807	89	179.80	11,774.67	-3,099.48	-368.47	3,110.31	1.82	95	400,360.34	717,375.82	1.79	-0.32
162	14902	90.20	179.80	11,775.33	-3,194.47	-368.14	3,205.24	1.26	95	400,265.35	717,376.15	1.26	0
163	14997	91.10	179.90	11,774.25	-3,289.47	-367.89	3,300.17	0.95	95	400,170.35	717,376.40	0.95	0.11
164	15092	90.60	179.70	11,772.84	-3,384.45	-367.56	3,395.09	0.57	95	400,075.37	717,376.73	-0.53	-0.21
165	15188	91.30	179.80	11,771.25	-3,480.44	-367.14	3,491.00	0.74	96	399,979.38	717,377.15	0.73	0.10
166	15283	91.70	180.30	11,768.77	-3,575.41	-367.23	3,585.92	0.67	95	399,884.41	717,377.06	0.42	0.53
167	15378	89.20	178.80	11,768.02	-3,670.39	-366.48	3,680.82	3.07	95	399,789.43	717,377.81	-2.63	-1.58
168	15473	88.10	177.70	11,770.26	-3,765.32	-363.58	3,775.59	1.64	95	399,694.50	717,380.71	-1.16	-1.16

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	Northing	Easting	Bulld	Turn
169	15569	87.70	177.10	11,773.78	-3,861.15	-359.23	3,871.22	0.75	96	399,598.67	717,385.06	-0.42	-0.63
170	15664	88.70	179	11,776.76	-3,956.05	-356.00	3,965.95	2.26	95	399,503.77	717,388.29	1.05	-2
171	15760	89.80	180.50	11,778.02	-4,052.03	-355.58	4,061.86	1.94	96	399,407.79	717,388.71	1.15	1.56
172	15855	92	180.50	11,776.52	-4,147.01	-356.41	4,156.81	2.32	95	399,312.81	717,387.88	2.32	0
173	15950	91.40	180.30	11,773.71	-4,241.97	-357.07	4,251.73	0.67	95	399,217.85	717,387.22	-0.63	-0.21
174	16045	90.40	179.20	11,772.21	-4,336.95	-356.66	4,346.65	1.56	95	399,122.87	717,387.63	-1.05	-1.16
175	16140	90.20	179.50	11,771.72	-4,431.94	-355.58	4,441.55	0.38	95	399,027.88	717,388.71	-0.21	0.32
176	16235	90.80	179.40	11,770.89	-4,526.94	-354.67	4,536.45	0.64	95	398,932.88	717,389.62	0.63	-0.11
177	16331	91.20	179.30	11,769.21	-4,622.91	-353.58	4,632.34	0.43	96	398,836.91	717,390.71	0.42	-0.10
178	16426	90.30	179.20	11,767.97	-4,717.90	-352.33	4,727.22	0.95	95	398,741.92	717,391.96	-0.95	-0.11
179	16521	91.70	178.90	11,766.31	-4,812.87	-350.76	4,822.08	1.51	95	398,646.95	717,393.53	1.47	-0.32
180	16616	90.60	178.30	11,764.40	-4,907.82	-348.44	4,916.90	1.32	95	398,552.00	717,395.85	-1.16	-0.63
181	16711	89.90	177.80	11,763.99	-5,002.76	-345.21	5,011.67	0.91	95	398,457.06	717,399.08	-0.74	-0.53
182	16806	89.30	177.70	11,764.65	-5,097.69	-341.48	5,106.41	0.64	95	398,362.13	717,402.81	-0.63	-0.11
183	16902	91.30	179.30	11,764.15	-5,193.64	-338.96	5,202.23	2.67	96	398,266.18	717,405.33	2.08	1.67
184	16997	91.10	181.40	11,762.16	-5,288.61	-339.54	5,297.16	2.22	95	398,171.21	717,404.75	-0.21	2.21
185	17092	91.20	181.90	11,760.25	-5,383.56	-342.28	5,392.14	0.54	95	398,076.26	717,402.01	0.11	0.53
186	17187	92.20	182	11,757.44	-5,478.46	-345.51	5,487.10	1.06	95	397,981.36	717,398.78	1.05	0.11
187	17282	91.70	181.40	11,754.20	-5,573.36	-348.33	5,582.04	0.82	95	397,886.46	717,395.96	-0.53	-0.63
188	17377	89.10	180.60	11,753.54	-5,668.33	-349.98	5,677.02	2.86	95	397,791.49	717,394.31	-2.74	-0.84
189	17472	91	181.10	11,753.46	-5,763.32	-351.39	5,771.99	2.07	95	397,696.50	717,392.90	2	0.53
190	17567	90.50	180	11,752.21	-5,858.31	-352.30	5,866.95	1.27	95	397,601.51	717,391.99	-0.53	-1.16
191	17662	92.70	181.10	11,749.56	-5,953.26	-353.22	5,961.88	2.59	95	397,506.56	717,391.07	2.32	1.16
192	17758	92.50	180.70	11,745.21	-6,049.15	-354.72	6,057.76	0.47	96	397,410.67	717,389.57	-0.21	-0.42
193	17853	91.70	179.60	11,741.72	-6,144.08	-354.97	6,152.65	1.43	95	397,315.74	717,389.32	-0.84	-1.16
194	17948	90.30	178.50	11,740.07	-6,239.05	-353.40	6,247.51	1.87	95	397,220.77	717,390.89	-1.47	-1.16
195	18043	89.20	178	11,740.48	-6,334.00	-350.49	6,342.31	1.27	95	397,125.82	717,393.80	-1.16	-0.53
196	18138	90.50	177.80	11,740.73	-6,428.93	-347.01	6,437.06	1.38	95	397,030.89	717,397.28	1.37	-0.21
197	18233	90.80	177.30	11,739.65	-6,523.84	-342.95	6,531.78	0.61	95	396,935.98	717,401.34	0.32	-0.53
198	18328	91.20	176.80	11,737.99	-6,618.70	-338.06	6,626.41	0.67	95	396,841.12	717,406.23	0.42	-0.53
199	18424	91.40	175.60	11,735.82	-6,714.46	-331.70	6,721.90	1.27	96	396,745.36	717,412.59	0.21	-1.25
200	18519	91.60	177.30	11,733.33	-6,809.24	-325.82	6,816.42	1.80	95	396,650.58	717,418.47	0.21	1.79
201	18614	88.40	178.40	11,733.33	-6,904.16	-322.26	6,911.16	3.56	95	396,555.66	717,422.03	-3.37	1.16
202	18709	89.50	180.60	11,735.07	-6,999.14	-321.43	7,006.05	2.59	95	396,460.68	717,422.86	1.16	2.32
203	18804	88.80	181	11,736.48	-7,094.12	-322.76	7,101.02	0.85	95	396,365.70	717,421.53	-0.74	0.42
204	18899	89.70	181.60	11,737.72	-7,189.08	-324.91	7,196.00	1.14	95	396,270.74	717,419.38	0.95	0.63
205	18995	89.90	181.50	11,738.06	-7,285.05	-327.51	7,292.00	0.23	96	396,174.77	717,416.78	0.21	-0.10
206	19090	91	181.60	11,737.31	-7,380.01	-330.08	7,386.99	1.16	95	396,079.81	717,414.21	1.16	0.11
207	19185	90.30	180.90	11,736.23	-7,474.98	-332.15	7,481.98	1.04	95	395,984.84	717,412.14	-0.74	-0.74
208	19281	89.90	180.30	11,736.07	-7,570.97	-333.16	7,577.95	0.75	96	395,888.85	717,411.13	-0.42	-0.63
209	19376	89.90	180.40	11,736.23	-7,665.97	-333.74	7,672.91	0.11	95	395,793.85	717,410.55	0	0.11
210	19471	92	181.50	11,734.66	-7,760.94	-335.31	7,767.88	2.50	95	395,698.88	717,408.98	2.21	1.16
211	19566	91.20	181.10	11,732.00	-7,855.87	-337.47	7,862.83	0.94	95	395,603.95	717,406.82	-0.84	-0.42
212	19661	90.60	180.30	11,730.51	-7,950.85	-338.63	7,957.80	1.05	95	395,508.97	717,405.66	-0.63	-0.84
213	19757	92.30	180	11,728.08	-8,046.82	-338.88	8,053.71	1.80	96	395,413.00	717,405.41	1.77	-0.31

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	Northing	Easting	Build	Turn
214	19852	92.20	178.90	11,724.35	-8,141.74	-337.97	8,148.55	1.16	95	395,318.08	717,406.32	-0.11	-1.16
215	19947	91.30	179.20	11,721.45	-8,236.68	-336.39	8,243.38	1.00	95	395,223.14	717,407.90	-0.95	0.32
216	20042	90.90	178	11,719.63	-8,331.63	-334.07	8,338.19	1.33	95	395,128.19	717,410.22	-0.42	-1.26
217	20137	90.80	179.50	11,718.22	-8,426.60	-332.00	8,433.03	1.58	95	395,033.22	717,412.29	-0.11	1.58
218	20233	89.50	177.30	11,717.97	-8,522.55	-329.32	8,528.84	2.66	96	394,937.27	717,414.97	-1.35	-2.29
219	20328	90.60	178.80	11,717.89	-8,617.49	-326.09	8,623.61	1.96	95	394,842.33	717,418.20	1.16	1.58
220	20423	91.30	178.80	11,716.31	-8,712.46	-324.10	8,718.45	0.74	95	394,747.36	717,420.19	0.74	0
221	20518	90.30	178.40	11,714.98	-8,807.42	-321.78	8,813.28	1.13	95	394,652.40	717,422.51	-1.05	-0.42
222	20613	90.60	179.40	11,714.24	-8,902.40	-319.95	8,908.14	1.10	95	394,557.42	717,424.34	0.32	1.05
223	20708	90.40	180.40	11,713.41	-8,997.39	-319.79	9,003.07	1.07	95	394,462.43	717,424.50	-0.21	1.05
224	20804	90.90	180.80	11,712.32	-9,093.38	-320.79	9,099.03	0.67	96	394,366.44	717,423.50	0.52	0.42
225	20899	88.30	180.60	11,712.98	-9,188.36	-321.95	9,194.00	2.74	95	394,271.46	717,422.34	-2.74	-0.21
226	20994	87.30	181.10	11,716.63	-9,283.28	-323.36	9,288.91	1.18	95	394,176.54	717,420.93	-1.05	0.53
227	21089	87.40	182.40	11,721.02	-9,378.13	-326.26	9,383.81	1.37	95	394,081.69	717,418.03	0.11	1.37
228	21184	90.20	181.50	11,723.01	-9,473.05	-329.49	9,478.78	3.10	95	393,986.77	717,414.80	2.95	-0.95
229	21280	90.90	179.70	11,722.09	-9,569.03	-330.49	9,574.74	2.01	96	393,890.79	717,413.80	0.73	-1.88
230	21375	93.30	178.10	11,718.61	-9,663.94	-328.67	9,669.53	3.04	95	393,795.88	717,415.62	2.53	-1.68
231	21470	93.20	180	11,713.22	-9,758.77	-327.10	9,764.25	2.00	95	393,701.05	717,417.19	-0.11	2
232	21565	92.30	179.40	11,708.66	-9,853.66	-326.60	9,859.06	1.14	95	393,606.16	717,417.69	-0.95	-0.63
233	21660	91.40	179.40	11,705.60	-9,948.60	-325.61	9,953.92	0.95	95	393,511.22	717,418.68	-0.95	0
234	21756	90.60	179.30	11,703.92	-10,044.58	-324.52	10,049.80	0.84	96	393,415.24	717,419.77	-0.83	-0.10
235	21788	90.20	179.10	11,703.70	-10,076.58	-324.07	10,081.76	1.40	32	393,383.24	717,420.22	-1.25	-0.63
PTB	21845	90.20	179.10	11,703.50	-10,133.57	-323.18	10,138.69	0	57	393,326.25	717,421.11	0	0