

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

OCD - HOBBS
04/24/2020
RECEIVED

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Devon Energy Production Company, L.P. 333 West Sheridan, Oklahoma City, OK 73102		² OGRID Number 6137
		³ Reason for Filing Code/ Effective Date RT / 4/10/20
⁴ API Number 30-025-45905	⁵ Pool Name WC-025 G-08 S233528D; Lower BS	⁶ Pool Code 97958 KZ
⁷ Property Code 325487	⁸ Property Name Red Bull 29-20 Fed	⁹ Well Number 2H

II. 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
N	29	23S	35E		445	South	2160	West	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	20	23S	35E		29	North	1655	West	LEA
¹² Lse Code F	¹³ Producing Method Code	¹⁴ Gas Connection Date 4/10/20	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
16587	Oryx Gas Gathering Services, LLC 4000 N. Big Spring, Suite 210 Midland, TX 79705	Gas
371960	Lucid Energy Delaware, LLC 3100 McKinnon St., Ste. 800, Dallas, TX 75201	Gas

IV. Well Completion Data

²¹ Spud Date 10/21/19	²² Ready Date 4/10/20	²³ TD 22,020'	²⁴ PBDT 21,958'	²⁵ Perforations 11,961' - 21,906'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5"	13.375"	1477'	1195 sx CIC; Circ 374 sx		
12.25"	9.625"	5370'	2155 sx CIC; Circ 548 sx		
8.75" & 8.5"	5.5"	22,010'	1385 sx CIC; Circ 0		
	Tubing: 2-7/8"	11,420'			

V. Well Test Data

³¹ Date New Oil 4/10/20	³² Gas Delivery Date 4/10/20	³³ Test Date NA	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure NA psi	³⁶ Csg. Pressure NA psi
³⁷ Choke Size	³⁸ Oil NA bbl	³⁹ Water NA bbl	⁴⁰ Gas NA mcf		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Rebecca Deal</i>			OIL CONSERVATION DIVISION Approved by: <i>Patricia Martinez</i>		
Printed name: Rebecca Deal			Title:		
Title: Regulatory Analyst			Approval Date:		
E-mail Address: Rebecca.Deal@dvn.com					
Date: 4/8/2020		Phone: 405-228-8429			

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 RD., 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, New Mexico 87505

OCD - HOBBS
04/24/2020
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Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-45905	Pool Code 97958	Pool Name WC-025 G-08 S233528D;LWR BONE SPRING Kz
Property Code 325487	Property Name RED BULL 29-20 FEDERAL	Well Number 2H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION CO., L.P.	Elevation 3428.2'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	29	23-S	35-E		445	SOUTH	2160	WEST	LEA

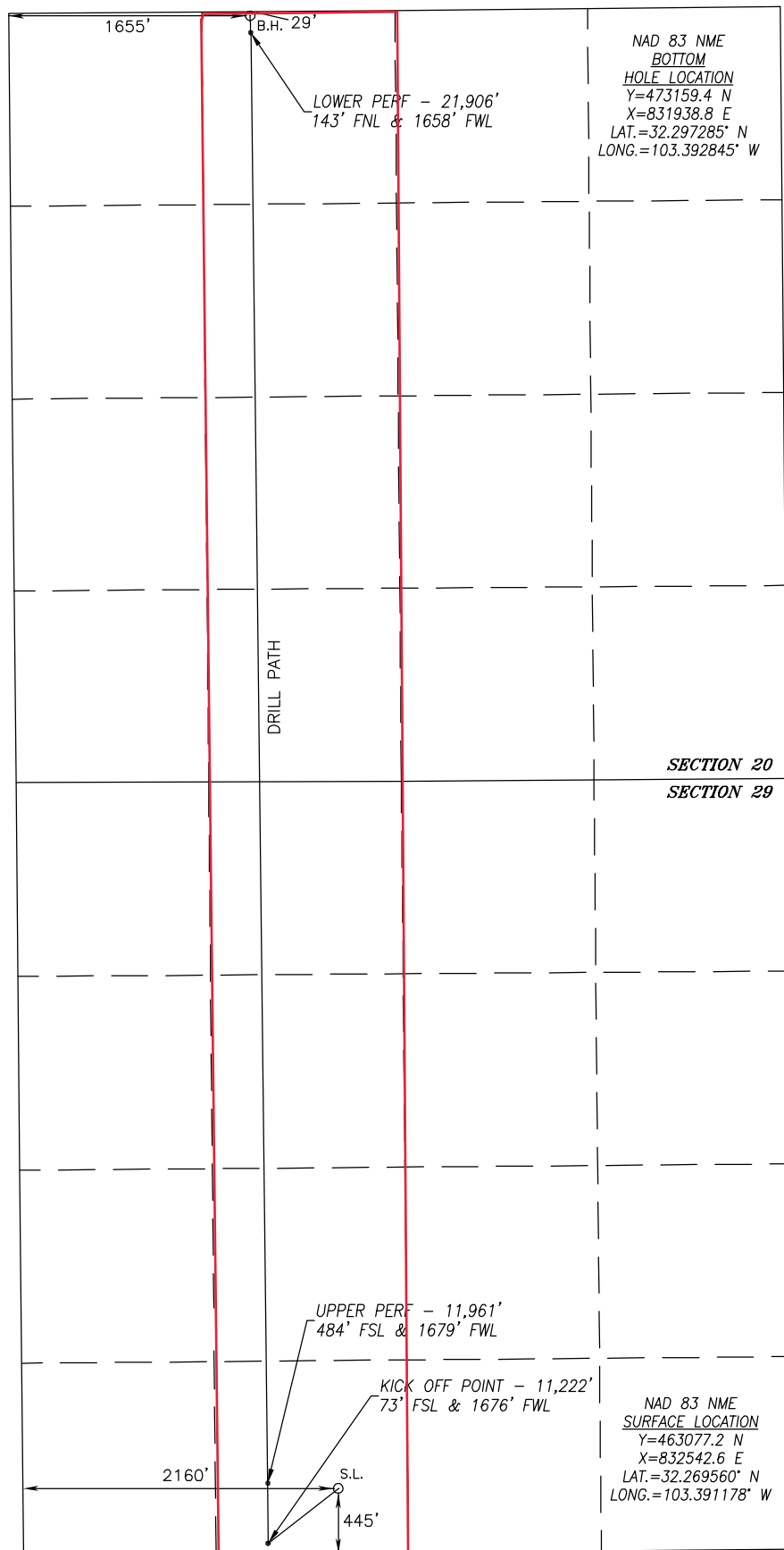
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	20	23-S	35-E		29	NORTH	1655	WEST	LEA
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

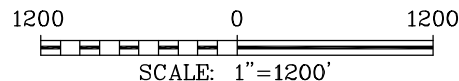
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SEE PAGE 2

Property Code 325487	Property Name RED BULL 29-20 FEDERAL	Well Number 2H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION CO., L.P.	Elevation 3428.2'



BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY DEVON ENERGY PRODUCTION CO., L.P. FOR THE RED BULL 29-20 FEDERAL #2H SUPPLIED TO HARCROW SURVEYING, LLC ON MARCH 30, 2020



OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Rebecca Deal 4/8/2020
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

rebecca.deal@divn.com
E-mail Address

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.

AUG. 6, 2018/NOV. 10, 2019

Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



Chad Harcrow 4/1/20
Certificate No. CHAD HARCROW 17777

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐ Y

Is this well an infill well? ☐ N

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



Final MWD Survey Certification

Lea County, New Mexico

Client: Devon Energy

Well Name: Red Bull 29-20 Fed 2H

Total Job No: 2019-750-126

API No: 30-025-45904

Start Date: 10/21/2019

End Date: 11/10/2019

Measured Start Depth: 104 feet

Measured End Depth: 22,020 feet

Vertical Section from well center at TD: 10,045.31 feet (10100.23 @ PTB)

I, Aaron Lawrence, 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: 11/10/2019

Signed: *Aaron Lawrence*



Red Bull 29-20 Fed 2H

Directional Survey Report

Start date: 10/21/2019

End date: 11/10/2019

Company Name: Devon Energy

Survey Company: Total Directional Services

Well Name: Red Bull 29-20 Fed 2H

State/Prov: New Mexico

Job Number: 2019-750-126

Field: Red Bull

County: Lea County

Proposed Azimuth: 356.72

Rig ID: Cactus 126

Country: USA

Declination: 6.12 KB: 3453.2

API/UWI: 30-025-45905

Location: 32.269560 N, -103.391275 W

North Reference: Grid

Latitude/Longitude: 32.269560 / -103.391275

Svy	TYPE	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
TieIn		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	
1		119.00	0.20	297.60	119.00	0.10	-0.18	0.11	0.21	297.60	0.17	119.00
2		179.00	0.30	270.60	179.00	0.15	-0.43	0.17	0.46	288.64	0.25	60.00
3		270.00	0.80	243.90	269.99	-0.13	-1.24	-0.06	1.25	264.00	0.60	91.00
4		362.00	1.10	240.00	361.98	-0.85	-2.58	-0.71	2.72	251.70	0.33	92.00
5		453.00	1.40	236.50	452.96	-1.91	-4.27	-1.66	4.67	245.94	0.34	91.00
6		546.00	1.60	236.40	545.93	-3.25	-6.30	-2.88	7.09	242.69	0.22	93.00
7		635.00	2.00	237.60	634.88	-4.77	-8.64	-4.27	9.87	241.10	0.45	89.00
8		726.00	2.50	237.00	725.81	-6.70	-11.65	-6.02	13.44	240.08	0.55	91.00
9		819.00	3.20	237.40	818.70	-9.21	-15.54	-8.30	18.06	239.35	0.75	93.00
10		911.00	3.80	237.20	910.53	-12.24	-20.26	-11.06	23.67	238.86	0.65	92.00
11		1,002.00	4.40	236.70	1,001.29	-15.79	-25.71	-14.29	30.18	238.45	0.66	91.00
12		1,092.00	4.40	236.00	1,091.03	-19.62	-31.46	-17.78	37.08	238.06	0.06	90.00
13		1,183.00	4.30	238.10	1,181.77	-23.37	-37.25	-21.20	43.98	237.90	0.21	91.00
14		1,274.00	3.90	242.20	1,272.53	-26.62	-42.89	-24.12	50.47	238.17	0.54	91.00
15		1,365.00	3.90	244.00	1,363.32	-29.42	-48.40	-26.60	56.64	238.71	0.13	91.00
16		1,407.00	3.70	244.50	1,405.23	-30.63	-50.91	-27.66	59.41	238.97	0.48	42.00
17		1,543.00	3.80	245.00	1,540.94	-34.42	-58.96	-30.99	68.27	239.72	0.08	136.00
18		1,634.00	3.70	244.50	1,631.74	-36.96	-64.34	-33.22	74.20	240.13	0.12	91.00
19		1,728.00	3.40	240.00	1,725.56	-39.66	-69.49	-35.62	80.01	240.29	0.44	94.00
20		1,822.00	3.20	238.40	1,819.41	-42.43	-74.14	-38.12	85.42	240.22	0.23	94.00
21		1,917.00	2.90	235.00	1,914.27	-45.19	-78.37	-40.64	90.46	240.03	0.37	95.00
22		2,011.00	2.60	234.00	2,008.16	-47.81	-82.04	-43.04	94.95	239.77	0.32	94.00
23		2,105.00	2.20	235.30	2,102.08	-50.09	-85.25	-45.13	98.88	239.56	0.43	94.00
24		2,199.00	1.90	235.30	2,196.02	-52.01	-88.01	-46.89	102.23	239.42	0.32	94.00
25		2,293.00	2.70	224.80	2,289.95	-54.46	-90.85	-49.18	105.93	239.06	0.96	94.00
26		2,387.00	3.30	220.90	2,383.82	-58.08	-94.19	-52.60	110.65	238.34	0.67	94.00
27		2,482.00	2.90	221.80	2,478.68	-61.94	-97.58	-56.25	115.58	237.59	0.42	95.00
28		2,576.00	2.50	221.80	2,572.57	-65.24	-100.53	-59.38	119.84	237.02	0.43	94.00
29		2,670.00	1.90	223.60	2,666.50	-67.90	-102.97	-61.89	123.34	236.60	0.64	94.00
30		2,764.00	2.40	222.00	2,760.44	-70.49	-105.36	-64.34	126.77	236.22	0.54	94.00
31		2,858.00	3.90	226.10	2,854.29	-74.17	-108.98	-67.81	131.82	235.76	1.61	94.00
32		2,952.00	5.90	229.00	2,947.94	-79.55	-114.93	-72.85	139.78	235.31	2.14	94.00
33		3,047.00	8.50	232.30	3,042.19	-87.05	-124.17	-79.80	151.65	234.97	2.77	95.00
34		3,140.00	9.10	231.50	3,134.09	-95.83	-135.37	-87.93	165.86	234.70	0.66	93.00
35		3,235.00	8.20	231.10	3,228.01	-104.76	-146.52	-96.21	180.12	234.43	0.95	95.00
36		3,329.00	7.60	230.90	3,321.12	-112.89	-156.56	-103.75	193.02	234.21	0.64	94.00
37		3,423.00	6.40	227.90	3,414.42	-120.33	-165.27	-110.67	204.43	233.94	1.33	94.00
38		3,516.00	5.80	225.10	3,506.89	-127.12	-172.45	-117.04	214.24	233.60	0.72	93.00
39		3,609.00	7.50	233.30	3,599.26	-134.06	-180.64	-123.51	224.96	233.42	2.09	93.00
40		3,703.00	8.00	231.90	3,692.40	-141.77	-190.71	-130.62	237.63	233.37	0.57	94.00
41		3,798.00	7.00	227.00	3,786.59	-149.79	-200.14	-138.10	249.99	233.19	1.25	95.00
42		3,892.00	8.00	230.90	3,879.79	-157.83	-209.41	-145.59	262.22	233.00	1.19	94.00
43		3,986.00	8.10	231.80	3,972.86	-166.05	-219.69	-153.20	275.38	232.92	0.17	94.00
44		4,080.00	7.30	231.30	4,066.01	-173.88	-229.56	-160.46	287.97	232.86	0.85	94.00
45		4,175.00	7.30	231.80	4,160.24	-181.38	-239.01	-167.41	300.04	232.81	0.07	95.00
46		4,269.00	9.90	234.60	4,253.18	-189.76	-250.29	-175.13	314.09	232.83	2.80	94.00
47		4,363.00	10.10	237.10	4,345.75	-198.92	-263.80	-183.50	330.39	232.98	0.51	94.00
48		4,457.00	9.90	238.00	4,438.32	-207.67	-277.57	-191.45	346.66	233.20	0.27	94.00
49		4,552.00	9.50	237.90	4,531.96	-216.17	-291.14	-199.16	362.62	233.41	0.42	95.00

Svy	TYPE	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
50		4,646.00	7.80	237.30	4,624.89	-223.74	-303.08	-206.03	376.72	233.56	1.81	94.00
51		4,740.00	7.50	236.00	4,718.05	-230.61	-313.53	-212.30	389.21	233.66	0.37	94.00
52		4,834.00	7.20	236.80	4,811.28	-237.27	-323.55	-218.37	401.22	233.75	0.34	94.00
53		4,928.00	6.60	237.80	4,904.60	-243.37	-333.05	-223.92	412.49	233.84	0.65	94.00
54		5,023.00	7.30	228.00	4,998.90	-250.32	-342.15	-230.34	423.95	233.81	1.45	95.00
55		5,118.00	8.60	219.50	5,092.99	-259.84	-351.16	-239.33	436.84	233.50	1.84	95.00
56		5,212.00	8.00	220.90	5,186.01	-270.21	-359.91	-249.17	450.05	233.10	0.67	94.00
57		5,305.00	7.50	222.90	5,278.16	-279.55	-368.28	-258.02	462.36	232.80	0.61	93.00
58		5,461.00	6.90	220.30	5,432.93	-294.15	-381.27	-271.86	481.55	232.35	0.44	156.00
59		5,555.00	6.80	219.30	5,526.26	-302.77	-388.45	-280.04	492.50	232.07	0.17	94.00
60		5,649.00	6.80	219.50	5,619.60	-311.37	-395.51	-288.23	503.37	231.79	0.03	94.00
61		5,743.00	6.50	216.60	5,712.96	-319.93	-402.22	-296.39	513.95	231.50	0.48	94.00
62		5,838.00	6.50	216.70	5,807.35	-328.56	-408.64	-304.64	524.35	231.20	0.01	95.00
63		5,932.00	7.10	222.70	5,900.69	-337.09	-415.76	-312.75	535.25	230.97	0.99	94.00
64		6,026.00	6.90	226.50	5,993.99	-345.25	-423.80	-320.44	546.63	230.83	0.54	94.00
65		6,120.00	6.40	224.10	6,087.36	-352.90	-431.54	-327.63	557.46	230.72	0.61	94.00
66		6,214.00	6.10	222.50	6,180.80	-360.34	-438.56	-334.66	567.61	230.59	0.37	94.00
67		6,308.00	5.70	221.30	6,274.30	-367.53	-445.02	-341.47	577.17	230.45	0.45	94.00
68		6,402.00	5.50	218.80	6,367.85	-374.55	-450.92	-348.14	586.19	230.29	0.34	94.00
69		6,496.00	5.30	218.40	6,461.44	-381.46	-456.44	-354.72	594.85	230.11	0.22	94.00
70		6,590.00	5.00	216.20	6,555.06	-388.17	-461.55	-361.13	603.08	229.94	0.38	94.00
71		6,684.00	4.80	215.40	6,648.71	-394.68	-466.25	-367.36	610.87	229.75	0.22	94.00
72		6,778.00	4.00	210.30	6,742.44	-400.72	-470.18	-373.16	617.78	229.56	0.95	94.00
73		6,872.00	3.00	206.70	6,836.26	-405.75	-472.94	-378.02	623.14	229.37	1.09	94.00
74		6,967.00	1.30	228.40	6,931.19	-408.69	-474.87	-380.85	626.52	229.28	1.95	95.00
75		7,061.00	1.00	249.70	7,025.17	-409.68	-476.43	-381.75	628.35	229.31	0.55	94.00
76		7,156.00	1.00	248.30	7,120.16	-410.27	-477.98	-382.25	629.91	229.36	0.03	95.00
77		7,251.00	1.00	249.50	7,215.14	-410.87	-479.53	-382.76	631.47	229.41	0.02	95.00
78		7,345.00	0.80	6.40	7,309.14	-410.50	-480.22	-382.36	631.77	229.48	1.64	94.00
79		7,439.00	1.10	22.60	7,403.12	-409.02	-479.80	-380.90	630.48	229.55	0.43	94.00
80		7,533.00	1.00	25.80	7,497.11	-407.45	-479.10	-379.37	628.93	229.62	0.12	94.00
81		7,628.00	1.00	23.00	7,592.09	-405.94	-478.42	-377.90	627.43	229.69	0.05	95.00
82		7,721.00	0.80	18.00	7,685.08	-404.57	-477.90	-376.57	626.15	229.75	0.23	93.00
83		7,816.00	0.70	354.20	7,780.07	-403.37	-477.75	-375.37	625.26	229.83	0.34	95.00
84		7,910.00	0.80	344.10	7,874.07	-402.16	-477.99	-374.16	624.67	229.92	0.18	94.00
85		8,004.00	0.90	352.10	7,968.06	-400.80	-478.27	-372.78	624.01	230.04	0.16	94.00
86		8,099.00	0.80	352.90	8,063.05	-399.40	-478.45	-371.37	623.25	230.15	0.11	95.00
87		8,193.00	0.40	344.70	8,157.04	-398.44	-478.62	-370.40	622.76	230.22	0.43	94.00
88		8,287.00	0.00	256.70	8,251.04	-398.12	-478.71	-370.08	622.62	230.25	0.43	94.00
89		8,381.00	0.40	177.80	8,345.04	-398.45	-478.70	-370.41	622.82	230.23	0.43	94.00
90		8,475.00	0.40	169.20	8,439.04	-399.10	-478.62	-371.06	623.18	230.18	0.06	94.00
91		8,569.00	0.40	161.80	8,533.03	-399.73	-478.46	-371.70	623.46	230.12	0.05	94.00
92		8,663.00	0.40	165.00	8,627.03	-400.36	-478.27	-372.34	623.72	230.07	0.02	94.00
93		8,757.00	0.20	148.80	8,721.03	-400.82	-478.10	-372.81	623.89	230.03	0.23	94.00
94		8,851.00	0.90	308.50	8,815.03	-400.50	-478.59	-372.46	624.06	230.08	1.16	94.00
95		8,946.00	0.90	284.60	8,910.02	-399.85	-479.90	-371.73	624.64	230.20	0.39	95.00
96		9,039.00	1.10	255.30	9,003.00	-399.89	-481.47	-371.69	625.88	230.29	0.58	93.00
97		9,134.00	0.60	304.50	9,097.99	-399.84	-482.76	-371.56	626.84	230.37	0.89	95.00
98		9,228.00	0.70	339.80	9,191.99	-399.02	-483.37	-370.71	626.79	230.46	0.43	94.00
99		9,322.00	0.40	278.50	9,285.98	-398.43	-483.89	-370.09	626.81	230.53	0.66	94.00
100		9,416.00	0.20	36.80	9,379.98	-398.25	-484.11	-369.90	626.88	230.56	0.56	94.00
101		9,510.00	0.70	125.90	9,473.98	-398.46	-483.55	-370.14	626.57	230.51	0.77	94.00
102		9,605.00	1.00	98.80	9,568.97	-398.93	-482.26	-370.68	625.87	230.40	0.52	95.00
103		9,700.00	0.20	76.80	9,663.96	-399.01	-481.28	-370.82	625.18	230.34	0.86	95.00
104		9,794.00	0.20	81.50	9,757.96	-398.95	-480.96	-370.78	624.89	230.32	0.02	94.00
105		9,888.00	1.30	119.70	9,851.95	-399.46	-479.87	-371.35	624.37	230.23	1.22	94.00
106		9,983.00	1.40	131.10	9,946.93	-400.75	-478.06	-372.74	623.81	230.03	0.30	95.00
107		10,077.00	1.40	153.70	10,040.90	-402.54	-476.69	-374.60	623.91	229.82	0.58	94.00
108		10,172.00	0.90	183.90	10,135.88	-404.32	-476.22	-376.41	624.71	229.67	0.81	95.00
109		10,266.00	1.10	196.90	10,229.87	-405.92	-476.54	-377.99	625.99	229.57	0.32	94.00
110		10,360.00	0.90	216.30	10,323.85	-407.38	-477.23	-379.41	627.46	229.52	0.42	94.00
111		10,454.00	0.60	355.20	10,417.85	-407.49	-477.71	-379.48	627.90	229.54	1.50	94.00
112		10,548.00	1.00	2.30	10,511.84	-406.18	-477.72	-378.18	627.05	229.63	0.44	94.00
113		10,642.00	0.30	351.10	10,605.83	-405.11	-477.73	-377.12	626.37	229.70	0.75	94.00
114		10,737.00	3.20	15.10	10,700.78	-402.31	-477.07	-374.35	624.06	229.86	3.08	95.00

Svy	TYPE	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
115		10,831.00	4.10	14.80	10,794.59	-396.52	-475.53	-368.67	619.16	230.18	0.96	94.00
116		10,925.00	3.60	357.20	10,888.38	-390.33	-474.82	-362.52	614.66	230.58	1.36	94.00
117		11,019.00	3.30	346.50	10,982.21	-384.75	-475.59	-356.91	611.74	231.03	0.75	94.00
118		11,113.00	2.80	330.60	11,076.08	-380.12	-477.35	-352.18	610.21	231.47	1.04	94.00
119		11,166.00	3.10	328.70	11,129.01	-377.77	-478.73	-349.76	609.83	231.72	0.60	53.00
120		11,207.00	3.20	328.30	11,169.95	-375.84	-479.91	-347.77	609.57	231.93	0.25	41.00
121		11,301.00	7.00	318.80	11,263.56	-369.30	-485.06	-340.94	609.65	232.72	4.13	94.00
122		11,396.00	19.00	319.00	11,355.95	-353.21	-499.07	-324.08	611.42	234.71	12.63	95.00
123		11,490.00	29.40	333.00	11,441.64	-320.99	-519.66	-290.74	610.81	238.30	12.57	94.00
124		11,585.00	38.90	350.80	11,520.37	-270.53	-535.09	-239.47	599.59	243.18	14.43	95.00
125		11,679.00	50.20	6.10	11,587.44	-205.09	-535.98	-174.09	573.87	249.06	16.52	94.00
126		11,772.00	57.90	12.30	11,642.03	-130.92	-523.76	-100.74	539.88	255.97	9.88	93.00
127		11,867.00	65.20	14.70	11,687.27	-49.78	-504.22	-20.85	506.67	264.36	8.00	95.00
128		11,961.00	73.80	14.90	11,720.15	35.26	-481.74	62.77	483.03	274.19	9.15	94.00
129		12,056.00	85.80	4.10	11,737.00	127.19	-466.53	153.68	483.56	285.25	16.86	95.00
130		12,150.00	90.60	359.00	11,739.95	221.06	-464.00	247.24	513.96	295.47	7.45	94.00
131		12,245.00	91.70	358.40	11,738.04	316.01	-466.15	342.16	563.17	304.13	1.32	95.00
132		12,339.00	91.70	357.90	11,735.25	409.92	-469.18	436.09	623.03	311.14	0.53	94.00
133		12,433.00	90.70	356.50	11,733.29	503.78	-473.77	530.06	691.56	316.76	1.83	94.00
134		12,528.00	90.10	355.70	11,732.62	598.56	-480.24	625.06	767.40	321.26	1.05	95.00
135		12,619.00	91.50	358.00	11,731.35	689.40	-485.23	716.04	843.05	324.86	2.96	91.00
136		12,652.00	90.60	357.80	11,730.75	722.38	-486.44	749.03	870.89	326.04	2.79	33.00
137		12,746.00	90.10	356.20	11,730.17	816.24	-491.36	843.02	952.73	328.95	1.78	94.00
138		12,840.00	93.10	356.50	11,727.55	910.00	-497.34	936.97	1,037.04	331.34	3.21	94.00
139		12,934.00	91.70	358.50	11,723.61	1,003.83	-501.44	1,030.87	1,122.10	333.46	2.60	94.00
140		13,028.00	91.40	0.20	11,721.07	1,097.78	-502.51	1,124.73	1,207.33	335.40	1.84	94.00
141		13,122.00	89.70	1.60	11,720.17	1,191.76	-501.03	1,218.47	1,292.80	337.20	2.34	94.00
142		13,216.00	89.50	1.10	11,720.82	1,285.73	-498.81	1,312.16	1,379.10	338.80	0.57	94.00
143		13,311.00	88.80	0.90	11,722.23	1,380.71	-497.16	1,406.89	1,467.49	340.20	0.77	95.00
144		13,405.00	88.00	0.10	11,724.86	1,474.66	-496.34	1,500.65	1,555.95	341.40	1.20	94.00
145		13,499.00	89.80	0.10	11,726.66	1,568.64	-496.17	1,594.46	1,645.24	342.45	1.91	94.00
146		13,594.00	89.00	0.20	11,727.66	1,663.64	-495.92	1,689.29	1,735.98	343.40	0.85	95.00
147		13,688.00	93.00	1.20	11,726.02	1,757.59	-494.78	1,783.02	1,825.91	344.28	4.39	94.00
148		13,782.00	90.30	1.30	11,723.31	1,851.52	-492.73	1,876.68	1,915.97	345.10	2.87	94.00
149		13,876.00	88.20	359.20	11,724.54	1,945.51	-492.32	1,970.49	2,006.83	345.80	3.16	94.00
150		13,970.00	88.50	358.80	11,727.25	2,039.45	-493.96	2,064.37	2,098.42	346.39	0.53	94.00
151		14,064.00	88.40	358.10	11,729.79	2,133.38	-496.50	2,158.29	2,190.39	346.90	0.75	94.00
152		14,158.00	90.20	358.70	11,730.94	2,227.33	-499.12	2,252.24	2,282.57	347.37	2.02	94.00
153		14,252.00	91.70	359.20	11,729.38	2,321.30	-500.84	2,346.16	2,374.72	347.82	1.68	94.00
154		14,346.00	89.90	359.30	11,728.07	2,415.28	-502.08	2,440.05	2,466.91	348.26	1.92	94.00
155		14,440.00	92.10	360.00	11,726.43	2,509.26	-502.65	2,533.91	2,559.11	348.67	2.46	94.00
156		14,534.00	89.40	0.40	11,725.20	2,603.24	-502.32	2,627.72	2,651.26	349.08	2.90	94.00
157		14,628.00	89.10	0.30	11,726.43	2,697.23	-501.75	2,721.52	2,743.50	349.46	0.34	94.00
158		14,722.00	92.70	1.80	11,724.95	2,791.19	-500.03	2,815.22	2,835.62	349.84	4.15	94.00
159		14,816.00	90.90	1.30	11,722.00	2,885.10	-497.48	2,908.84	2,927.68	350.22	1.99	94.00
160		14,910.00	88.50	0.90	11,722.49	2,979.08	-495.68	3,002.56	3,020.03	350.55	2.59	94.00
161		15,004.00	89.30	1.00	11,724.29	3,073.04	-494.12	3,096.28	3,112.52	350.87	0.86	94.00
162		15,098.00	88.30	360.00	11,726.26	3,167.02	-493.30	3,190.05	3,205.21	351.15	1.50	94.00
163		15,191.00	88.90	0.70	11,728.53	3,259.99	-492.73	3,282.84	3,297.01	351.41	0.99	93.00
164		15,286.00	91.10	1.40	11,728.53	3,354.96	-490.99	3,377.56	3,390.70	351.67	2.43	95.00
165		15,380.00	89.40	1.30	11,728.12	3,448.93	-488.78	3,471.25	3,483.40	351.93	1.81	94.00
166		15,474.00	88.20	1.40	11,730.09	3,542.89	-486.56	3,564.92	3,576.14	352.18	1.28	94.00
167		15,569.00	87.60	360.00	11,733.57	3,637.81	-485.40	3,659.63	3,670.05	352.40	1.60	95.00
168		15,664.00	87.70	0.40	11,737.47	3,732.73	-485.07	3,754.37	3,764.12	352.60	0.43	95.00
169		15,758.00	88.20	359.90	11,740.83	3,826.67	-484.83	3,848.14	3,857.26	352.78	0.75	94.00
170		15,853.00	87.70	0.60	11,744.23	3,921.61	-484.41	3,942.90	3,951.41	352.96	0.91	95.00
171		15,947.00	87.70	358.70	11,748.00	4,015.53	-484.99	4,036.70	4,044.71	353.11	2.02	94.00
172		16,041.00	89.80	359.60	11,750.05	4,109.49	-486.38	4,130.58	4,138.17	353.25	2.43	94.00
173		16,135.00	88.50	358.00	11,751.45	4,203.45	-488.35	4,224.51	4,231.72	353.37	2.19	94.00
174		16,229.00	92.00	358.00	11,751.04	4,297.38	-491.63	4,318.47	4,325.41	353.47	3.72	94.00
175		16,323.00	90.90	358.20	11,748.66	4,391.30	-494.74	4,412.41	4,419.08	353.57	1.19	94.00
176		16,418.00	89.40	357.20	11,748.41	4,486.21	-498.56	4,507.39	4,513.83	353.66	1.90	95.00
177		16,512.00	90.80	357.10	11,748.25	4,580.10	-503.23	4,601.39	4,607.66	353.73	1.49	94.00
178		16,606.00	91.30	357.20	11,746.52	4,673.96	-507.90	4,695.37	4,701.48	353.80	0.54	94.00
179		16,700.00	92.00	357.80	11,743.82	4,767.83	-512.00	4,789.32	4,795.25	353.87	0.98	94.00

Svy	TYPE	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
180		16,794.00	89.90	357.30	11,742.26	4,861.73	-516.02	4,883.29	4,889.04	353.94	2.30	94.00
181		16,888.00	89.40	357.20	11,742.83	4,955.62	-520.53	4,977.28	4,982.88	354.00	0.54	94.00
182		16,982.00	90.10	357.40	11,743.24	5,049.51	-524.96	5,071.28	5,076.73	354.06	0.77	94.00
183		17,076.00	92.80	358.20	11,740.87	5,143.40	-528.56	5,165.22	5,170.49	354.13	3.00	94.00
184		17,170.00	90.40	358.70	11,738.24	5,237.33	-531.11	5,259.13	5,264.19	354.21	2.61	94.00
185		17,264.00	89.00	358.70	11,738.73	5,331.30	-533.24	5,353.07	5,357.90	354.29	1.49	94.00
186		17,358.00	89.20	358.90	11,740.21	5,425.27	-535.21	5,447.00	5,451.60	354.37	0.30	94.00
187		17,452.00	90.10	359.40	11,740.78	5,519.25	-536.60	5,540.91	5,545.28	354.45	1.10	94.00
188		17,545.00	90.40	359.80	11,740.38	5,612.25	-537.25	5,633.79	5,637.91	354.53	0.54	93.00
189		17,640.00	90.30	359.40	11,739.80	5,707.25	-537.91	5,728.67	5,732.54	354.62	0.43	95.00
190		17,734.00	90.90	359.80	11,738.81	5,801.24	-538.57	5,822.55	5,826.18	354.70	0.77	94.00
191		17,828.00	90.60	359.40	11,737.58	5,895.23	-539.23	5,916.42	5,919.84	354.77	0.53	94.00
192		17,922.00	90.20	359.40	11,736.93	5,989.22	-540.21	6,010.32	6,013.53	354.85	0.43	94.00
193		18,017.00	89.40	358.50	11,737.26	6,084.20	-541.95	6,105.24	6,108.29	354.91	1.27	95.00
194		18,111.00	88.40	358.10	11,739.06	6,178.14	-544.74	6,199.19	6,202.11	354.96	1.15	94.00
195		18,205.00	89.40	358.30	11,740.87	6,272.08	-547.69	6,293.14	6,295.94	355.01	1.08	94.00
196		18,299.00	91.20	358.00	11,740.38	6,366.02	-550.73	6,387.10	6,389.80	355.06	1.94	94.00
197		18,393.00	94.20	358.40	11,735.95	6,459.86	-553.67	6,480.96	6,483.54	355.10	3.22	94.00
198		18,487.00	94.30	358.20	11,728.98	6,553.56	-556.46	6,574.66	6,577.14	355.15	0.24	94.00
199		18,582.00	94.30	357.90	11,721.86	6,648.24	-559.68	6,669.37	6,671.75	355.19	0.31	95.00
200		18,676.00	93.80	357.90	11,715.22	6,741.94	-563.11	6,763.11	6,765.42	355.23	0.53	94.00
201		18,770.00	93.30	358.00	11,709.40	6,835.70	-566.47	6,856.91	6,859.13	355.26	0.54	94.00
202		18,864.00	92.20	358.90	11,704.89	6,929.55	-569.01	6,950.76	6,952.88	355.31	1.51	94.00
203		18,958.00	92.00	358.50	11,701.44	7,023.47	-571.14	7,044.64	7,046.65	355.35	0.48	94.00
204		19,052.00	92.40	358.00	11,697.84	7,117.35	-574.01	7,138.54	7,140.46	355.39	0.68	94.00
205		19,147.00	93.50	358.00	11,692.95	7,212.17	-577.32	7,233.38	7,235.24	355.42	1.16	95.00
206		19,241.00	94.50	357.70	11,686.39	7,305.87	-580.84	7,327.14	7,328.92	355.45	1.11	94.00
207		19,335.00	95.40	359.00	11,678.28	7,399.48	-583.54	7,420.74	7,422.45	355.49	1.68	94.00
208		19,429.00	95.70	358.00	11,669.19	7,493.00	-585.98	7,514.26	7,515.88	355.53	1.11	94.00
209		19,523.00	94.90	357.70	11,660.50	7,586.54	-589.50	7,607.84	7,609.40	355.56	0.91	94.00
210		19,616.00	92.90	359.10	11,654.18	7,679.28	-592.09	7,700.57	7,702.07	355.59	2.62	93.00
211		19,710.00	91.50	359.80	11,650.57	7,773.20	-592.99	7,794.40	7,795.79	355.64	1.66	94.00
212		19,805.00	89.60	0.10	11,649.66	7,868.19	-593.07	7,889.24	7,890.51	355.69	2.02	95.00
213		19,899.00	89.90	359.50	11,650.07	7,962.19	-593.40	7,983.10	7,984.27	355.74	0.71	94.00
214		19,993.00	90.00	1.40	11,650.15	8,056.18	-592.66	8,076.89	8,077.95	355.79	2.02	94.00
215		20,087.00	90.60	0.80	11,649.66	8,150.16	-590.85	8,170.62	8,171.55	355.85	0.90	94.00
216		20,182.00	89.80	2.20	11,649.33	8,245.13	-588.37	8,265.28	8,266.09	355.92	1.70	95.00
217		20,276.00	90.60	1.70	11,649.00	8,339.07	-585.17	8,358.89	8,359.58	355.99	1.00	94.00
218		20,370.00	91.00	1.30	11,647.69	8,433.03	-582.71	8,452.55	8,453.14	356.05	0.60	94.00
219		20,464.00	91.10	359.90	11,645.96	8,527.01	-581.73	8,546.32	8,546.83	356.10	1.49	94.00
220		20,558.00	92.10	359.20	11,643.34	8,620.96	-582.46	8,640.17	8,640.62	356.13	1.30	94.00
221		20,652.00	89.50	0.20	11,642.03	8,714.94	-582.95	8,734.02	8,734.42	356.17	2.96	94.00
222		20,746.00	89.60	359.90	11,642.77	8,808.94	-582.87	8,827.86	8,828.20	356.21	0.34	94.00
223		20,840.00	89.00	358.70	11,643.91	8,902.93	-584.02	8,921.76	8,922.06	356.25	1.43	94.00
224		20,934.00	90.30	359.20	11,644.49	8,996.91	-585.74	9,015.68	9,015.95	356.28	1.48	94.00
225		21,028.00	91.20	358.90	11,643.26	9,090.88	-587.30	9,109.59	9,109.83	356.30	1.01	94.00
226		21,122.00	91.20	359.30	11,641.29	9,184.85	-588.78	9,203.49	9,203.70	356.33	0.43	94.00
227		21,216.00	91.60	0.40	11,638.99	9,278.82	-589.02	9,297.32	9,297.50	356.37	1.24	94.00
228		21,310.00	91.70	359.90	11,636.29	9,372.78	-588.78	9,391.12	9,391.26	356.41	0.54	94.00
229		21,404.00	91.90	359.50	11,633.33	9,466.73	-589.27	9,484.94	9,485.06	356.44	0.48	94.00
230		21,499.00	91.90	359.40	11,630.18	9,561.68	-590.18	9,579.78	9,579.87	356.47	0.11	95.00
231		21,593.00	91.50	358.90	11,627.39	9,655.63	-591.58	9,673.65	9,673.73	356.49	0.68	94.00
232		21,687.00	91.40	358.60	11,625.02	9,749.57	-593.63	9,767.57	9,767.63	356.52	0.34	94.00
233		21,781.00	92.10	358.60	11,622.15	9,843.50	-595.92	9,861.47	9,861.52	356.54	0.74	94.00
234		21,875.00	92.40	358.00	11,618.45	9,937.39	-598.71	9,955.36	9,955.40	356.55	0.71	94.00
235		21,965.00	92.00	358.00	11,615.00	10,027.26	-601.85	10,045.27	10,045.31	356.57	0.44	90.00
PTB	PTB	22,020.00	92.00	358.00	11,613.08	10,082.20	-603.76	10,100.23	10,100.26	356.57	0.00	55.00