

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office

FORM APPROVED
OMB No. 1004-0137
Date: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Case Serial No.
MINM012121

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY Contact: BRITTNEY WHEATON brittney.wheaton@dv.com			8. Lease Name and Well No. COTTON DRAW UNIT 513H		
3. Address 6488 SEVEN RIVERS HIGHWAY ARTESIA, NM 88211			9. API Well No. 30-015-44199-00-S1		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SWSE 230FSL 1815FEL 32.181721 N Lat, 103.728836 W Lon At top prod interval reported below SESE 81FSL 1017FEL At total depth NENE 290FNL 660FEL			10. Field and Pool, or Exploratory PADUCA BONE SPRINGS		
14. Date Spudded 06/14/2017			15. Date T.D. Reached 10/26/2017		
16. Date Completed ☐ D & A ☒ Ready to Prod. 10/29/2017			17. Elevations (DF, KB, RT, GL)* 3514 GL		
18. Total Depth: MD 15117 TVD 10240			19. Plug Back T.D.: MD 15011 TVD 10240		
20. Depth Bridge Plug Set: MD TVD			21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL		
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☒ No ☐ Yes (Submit analysis)					

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	54.5	0	744		390		0	
12.250	9.625 J-55	40.0	0	4369		1135		0	
8.750	5.500 P-110	17.0	0	10701		500		0	
8.500	5.500 P-110	17.0	10701	15094		500		3680	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size *	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	9948							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	10410	14968	10410 TO 14968		552	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

NM OIL CONSERVATION

Depth Interval	Amount and Type of Material	ARTESIA DISTRICT
10410 TO 14968	6975200 LBS PROP & 17514 GALLONS ACID	
		MAR 12 2018

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/18/2018	02/03/2018	24	→	590.0	870.0	1862.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	866	117.0	→	590	870	1862	1474	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

ACCEPTED FOR RECORD
MAR 8 2018
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #404618 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Reclamation Due by April 24th, 2018

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
RUSTLER BASE OF SALT DELAWARE BONE SPRING		677 1105 4390 8310	BARREN BARREN OIL OIL		

32. Additional remarks (include plugging procedure):

11/18/17 - 01/17/2018 :Date: PT csg to 1500 psi for 30 min, good test. MIRU WL &

plug & guns. Perf Bone Spring 10,410'-14,968', total 552 holes. Frac'd 10,410'-14,968' in 23 stages. Frac totals 17,514 gal acid, 6,975,200 # prop.

ND frac, MIRU PU, NU BOP, DO plugs & CO to Float Collar @ 15,013'. CHC, FWB, ND BOP. RIH w/262 jts 2-7/8" L-80 tbg, set @9948'. TOP.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #404618 Verified by the BLM Well Information System.
For DEVON ENERGY PRODUCTION COMPAN, sent to the Carlsbad
Committed to AFMSS for processing by DUNCAN WHITLOCK on 02/28/2018 (18DW0076SE)

Name (please print) BRITTNEY WHEATON

Title REGULATORY PROFESSIONAL

Signature (Electronic Submission)

Date 02/15/2018

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

District I
1623 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

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 30-015-44199	² Pool Code 96641	³ Pool Name Paduca; Bone Spring
⁴ Property Code 300635	⁵ Property Name COTTON DRAW UNIT	⁶ Well Number 513H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3513.9

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
O	25	24 S	31 E		230	SOUTH	1815	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
A	25	24 S	31 E		315'	NORTH	672'	EAST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

N89°39'11"E 2639.95 FT NW CORNER SEC. 25 LAT. = 32.1956002°N LONG. = 103.7400460°W NMSP EAST (FT) N = 435400.01 E = 724859.42 W Q CORNER SEC. 25 LAT. = 32.1883435°N LONG. = 103.7400437°W NMSP EAST (FT) N = 432780.11 E = 724874.69 SW CORNER SEC. 25 LAT. = 32.1810840°N LONG. = 103.7400384°W NMSP EAST (FT) N = 430119.23 E = 724890.89		N89°41'48"E 2642.65 FT N Q CORNER SEC. 25 LAT. = 32.1956038°N LONG. = 103.7315137°W NMSP EAST (FT) N = 435415.99 E = 724987.75 NE CORNER SEC. 25 LAT. = 32.1956013°N LONG. = 103.7229727°W NMSP EAST (FT) N = 435429.98 E = 730140.78 E Q CORNER SEC. 25 LAT. = 32.1883462°N LONG. = 103.7229683°W NMSP EAST (FT) N = 432790.66 E = 730156.82 SE CORNER SEC. 25 LAT. = 32.1810900°N LONG. = 103.7229683°W NMSP EAST (FT) N = 430150.94 E = 730172.13		10 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 into. <i>Brittney Wheaton</i> 02/7/2018 Signature Date Brittney Wheaton Printed Name Brittney.wheaton@dmv.com E-mail Address	
NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) (NAVD88). 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. 11 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. FEBRUARY 7, 2018 Date of Survey <i>William F. Jaramila</i> Signature and Seal of Surveyor Certificate Number: WILLIAM F. JARAMILA PLS 12797 SURVEY NO. 5136		12 BOTTOM OF HOLE LAT. = 32.1948050°N LONG. = 103.7251055°W NMSP EAST (FT) N = 435136.55 E = 729482.69 13 COTTON DRAW UNIT 513H ELEV. = 3513.9' LAT. = 32.1817205°N (NAD83) LONG. = 103.7288335°W NMSP EAST (FT) N = 430370.05 E = 728356.22 14 SURFACE LOCATION 230'			

PP: 81° FSL & 1017° FEL - 25-24S-31E

Project Area _____

Producing Area _____



MWD SURVEY CERTIFICATION
Legacy Directional Drilling, LLC.

State Of New Mexico

County Of Eddy

I, Mark L. Miller certify that; I am employed by Legacy Directional Drilling, LLC.;
that I did on the day(s) of October 13, 2017 through October 27, 2017 conduct
or supervise the taking of a MWD survey from a depth of 26 feet to a depth of
15,117 feet; that the data is true, correct, complete and within the limitations of the
tool set forth by Legacy Directional Drilling, LLC.; that I am authorized and qualified to make this report;
that this survey was conducted at the request of Devon Energy Production Co. for the
Cotton Draw Unit 513H Well, A.P.I. No. 30-015-44199 in
Paduca/Bone Spring Field and that I have reviewed this report and find that
it conforms to the principles and procedures set forth by Legacy Directional Drilling, LLC.

A handwritten signature in black ink, appearing to read 'Mark L. Miller', written over a horizontal line.

Surveyor's Signature

MLWD Technical Director

Title



Directional Survey Report

Company Name: DEVON ENERGY
Well Name: COTTON DRAW UNIT 513H
Field: PADUCA / BONE SPRING
Rig ID: ICD 217

State/Prov: NEW MEXICO
County: EDDY
Location: SEC 25 T24S R31E
API/UWI: 30015441990000

Survey Company: LEGACY DIRECTIONAL
Job Number: LF170044
Latitude: 32.181721
Longitude: -103.728931

Proposed Azimuth: 0
Declination: 6.67
North Reference: Grid
KB: 3539.6

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
TieIn	0	0	0	0	0	0	0	0	0	0	90	0
1	26	0	359.68	26	0	0	0	0	26	0	90	0
2	135	0.30	24.76	135.00	0.26	0.12	0.26	0.28	109	0.29	24.76	72
3	230	0.50	241.73	230.00	0.29	-0.14	0.29	0.80	95	0.32	333.90	72
4	323	0.40	197.73	323.00	-0.21	-0.60	-0.21	0.38	93	0.63	250.40	72
5	417	0.80	221.73	416.99	-1.02	-1.13	-1.02	0.49	94	1.52	228.18	72
6	512	0.60	183.73	511.98	-2.01	-1.61	-2.01	0.52	95	2.57	218.71	72
7	575	0.60	185.73	574.98	-2.66	-1.66	-2.66	0	63	3.14	211.97	72
8	606	0.40	190.73	605.98	-2.93	-1.70	-2.93	0.66	31	3.39	210.09	72
9	637	0.60	162.73	636.98	-3.19	-1.67	-3.19	1.00	31	3.60	207.62	72
10	669	0.40	179.73	668.98	-3.46	-1.62	-3.46	0.77	32	3.82	205.07	72
11	700	0.60	200.73	699.98	-3.72	-1.68	-3.72	0.86	31	4.08	204.25	0
12	790	0.73	159.57	789.97	-4.70	-1.64	-4.70	0.54	90	4.98	199.27	0
13	883	0.77	161.58	882.96	-5.85	-1.24	-5.85	0.05	93	5.98	191.97	84.90
14	976	0.98	154.17	975.95	-7.16	-0.70	-7.16	0.26	93	7.19	185.55	84.90
15	1069	1.12	126.35	1,068.94	-8.41	0.38	-8.41	0.56	93	8.42	177.40	84.90
16	1163	1.30	115.51	1,162.92	-9.42	2.08	-9.42	0.31	94	9.65	167.52	92
17	1256	0.63	93.82	1,255.90	-9.91	3.55	-9.91	0.81	93	10.52	160.30	99
18	1348	0.85	54.90	1,347.89	-9.55	4.61	-9.55	0.58	92	10.60	154.23	99.10
19	1440	0.80	45.05	1,439.89	-8.70	5.62	-8.70	0.16	92	10.36	147.13	99.10
20	1532	0.28	46.71	1,531.88	-8.09	6.24	-8.09	0.57	92	10.22	142.36	99.10
21	1625	0.18	337.66	1,624.88	-7.80	6.35	-7.80	0.29	93	10.06	140.86	106.30
22	1718	0.39	1.01	1,717.88	-7.35	6.30	-7.35	0.25	93	9.68	139.40	106.30
23	1813	0.58	350.67	1,812.88	-6.55	6.23	-6.55	0.22	95	9.04	136.45	113.40
24	1909	0.32	344.01	1,908.87	-5.82	6.08	-5.82	0.28	96	8.41	133.75	113.40
25	2004	0.66	342.71	2,003.87	-5.04	5.84	-5.04	0.36	95	7.71	130.78	113.40
26	2099	0.87	1.07	2,098.86	-3.79	5.69	-3.79	0.34	95	6.84	123.69	120.60
27	2193	0.74	352.52	2,192.85	-2.48	5.63	-2.48	0.19	94	6.15	113.79	113.40
28	2288	0.61	335.49	2,287.84	-1.41	5.34	-1.41	0.25	95	5.52	104.81	120.60
29	2383	0.49	358.74	2,382.84	-0.54	5.12	-0.54	0.26	95	5.15	96.08	120.60
30	2479	0.54	21.64	2,478.84	0.29	5.28	0.29	0.22	96	5.28	86.90	120.60
31	2573	0.42	23.88	2,572.83	1.01	5.58	1.01	0.13	94	5.67	79.71	127.70
32	2669	0.25	27.99	2,668.83	1.52	5.82	1.52	0.18	96	6.01	75.37	120.60
33	2764	0.04	189.96	2,763.83	1.67	5.91	1.67	0.30	95	6.14	74.22	127.70

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
34	2859	0.62	117.64	2,858.83	1.40	6.36	1.40	0.64	95	6.51	77.60	127.70
35	2954	0.70	57.36	2,953.82	1.47	7.30	1.47	0.70	95	7.45	78.60	134.90
36	3049	1.67	117.59	3,048.81	1.15	9.02	1.15	1.53	95	9.09	82.76	134.90
37	3144	2.58	118.17	3,143.74	-0.51	12.13	-0.51	0.96	95	12.14	92.39	134.90
38	3239	3.23	102.99	3,238.62	-2.12	16.62	-2.12	1.05	95	16.76	97.26	134.90
39	3334	3.50	101.42	3,333.45	-3.29	22.07	-3.29	0.30	95	22.32	98.48	127.70
40	3429	2.34	118.08	3,428.33	-4.78	26.63	-4.78	1.50	95	27.05	100.18	134.90
41	3524	2.66	121.64	3,523.24	-6.85	30.22	-6.85	0.37	95	30.98	102.77	142
42	3619	3.46	110.18	3,618.11	-8.99	34.78	-8.99	1.06	95	35.93	104.50	142
43	3714	3.96	102.59	3,712.91	-10.70	40.68	-10.70	0.74	95	42.06	104.74	134.90
44	3809	5.73	104.45	3,807.56	-12.60	48.47	-12.60	1.87	95	50.08	104.57	134.90
45	3904	8.10	105.47	3,901.87	-15.57	59.51	-15.57	2.50	95	61.52	104.66	127.70
46	3999	9.02	102.25	3,995.81	-18.93	73.24	-18.93	1.09	95	75.65	104.49	134.90
47	4094	9.83	101.26	4,089.52	-22.09	88.47	-22.09	0.87	95	91.19	104.02	134.90
48	4189	9.33	100.34	4,183.20	-25.06	104.00	-25.06	0.55	95	106.98	103.55	127.70
49	4284	8.32	107.36	4,277.08	-28.49	118.14	-28.49	1.55	95	121.53	103.56	134.90
50	4321	8.08	109.03	4,313.70	-30.14	123.15	-30.14	0.91	37	126.79	103.75	134.90
51	4400	8.09	107.01	4,391.91	-33.58	133.72	-33.58	0.36	79	137.87	104.10	102
52	4475	8.44	99.95	4,466.14	-36.07	144.19	-36.07	1.43	75	148.63	104.05	106.30
53	4570	9.20	95.42	4,560.01	-37.99	158.61	-37.99	1.08	95	163.10	103.47	106.30
54	4665	11.46	95.19	4,653.47	-39.56	175.57	-39.56	2.38	95	179.98	102.70	106.30
55	4760	11.91	95.09	4,746.50	-41.29	194.74	-41.29	0.47	95	199.07	101.97	106.30
56	4854	10.92	94.86	4,838.64	-42.90	213.27	-42.90	1.05	94	217.54	101.37	113.40
57	4949	11.01	95.37	4,931.90	-44.51	231.27	-44.51	0.14	95	235.51	100.90	113.40
58	5044	9.42	97.71	5,025.39	-46.41	248.01	-46.41	1.73	95	252.31	100.60	113.40
59	5139	10.16	98.26	5,119.01	-48.65	264.00	-48.65	0.79	95	268.45	100.44	113.40
60	5233	10.97	97.17	5,211.42	-50.96	281.08	-50.96	0.89	94	285.66	100.28	113.40
61	5328	10.21	94.39	5,304.80	-52.73	298.44	-52.73	0.96	95	303.07	100.02	120.60
62	5423	8.24	99.23	5,398.57	-54.47	313.56	-54.47	2.23	95	318.26	99.85	113.40
63	5519	8.17	98.24	5,493.58	-56.55	327.10	-56.55	0.16	96	331.95	99.81	120.60
64	5614	9.43	96.93	5,587.46	-58.46	341.51	-58.46	1.34	95	346.48	99.71	120.60
65	5709	9.27	94.24	5,681.20	-59.96	356.86	-59.96	0.49	95	361.87	99.54	120.60
66	5804	9.76	99.11	5,774.90	-61.80	372.45	-61.80	0.99	95	377.54	99.42	120.60
67	5899	10.33	99.94	5,868.44	-64.55	388.79	-64.55	0.62	95	394.11	99.43	120.60
68	5995	10.17	97.61	5,962.91	-67.16	405.67	-67.16	0.46	96	411.19	99.40	120.60
69	6090	9.03	96.44	6,056.58	-69.10	421.39	-69.10	1.22	95	427.02	99.31	127.70
70	6185	9.11	104.74	6,150.39	-71.85	436.07	-71.85	1.38	95	441.95	99.36	127.70
71	6280	10.73	108.07	6,243.97	-76.51	451.75	-76.51	1.81	95	458.18	99.61	127.70
72	6375	10.17	102.87	6,337.39	-81.12	468.34	-81.12	1.15	95	475.31	99.83	127.70
73	6471	9.22	105.46	6,432.02	-85.06	484.01	-85.06	1.09	96	491.43	99.97	127.70
74	6566	9.88	100.23	6,525.71	-88.54	499.37	-88.54	1.15	95	507.16	100.05	127.70
75	6661	11.07	97.92	6,619.12	-91.24	516.42	-91.24	1.33	95	524.42	100.02	127.70
76	6756	9.26	97.38	6,712.63	-93.48	533.04	-93.48	1.91	95	541.17	99.95	127.70
77	6851	9.14	100.68	6,806.41	-95.86	548.03	-95.86	0.57	95	556.35	99.92	127.70
78	6946	8.39	101.24	6,900.30	-98.61	562.24	-98.61	0.79	95	570.83	99.95	127.70

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
79	7041	8.54	102.43	6,994.26	-101.48	575.93	-101.48	0.24	95	584.80	99.99	134.90
80	7136	10.01	103.01	7,088.02	-104.85	590.86	-104.85	1.55	95	600.10	100.06	134.90
81	7231	8.83	103.91	7,181.73	-108.47	605.99	-108.47	1.25	95	615.62	100.15	103.90
82	7326	10.08	104.19	7,275.44	-112.26	621.13	-112.26	1.32	95	631.19	100.24	127.70
83	7421	11.28	102.01	7,368.80	-116.23	638.27	-116.23	1.33	95	648.77	100.32	134.90
84	7516	11.03	97.20	7,462.00	-119.30	656.38	-119.30	1.01	95	667.13	100.30	134.90
85	7611	7.70	98.79	7,555.72	-121.41	671.69	-121.41	3.52	95	682.57	100.25	127.70
86	7706	8.04	97.65	7,649.83	-123.27	684.56	-123.27	0.39	95	695.57	100.21	127.70
87	7801	9.90	101.56	7,743.66	-125.79	699.15	-125.79	2.06	95	710.38	100.20	127.70
88	7895	10.58	104.93	7,836.17	-129.63	715.40	-129.63	0.96	94	727.06	100.27	134.90
89	7990	10.14	101.58	7,929.62	-133.56	732.02	-133.56	0.79	95	744.11	100.34	134.90
90	8085	8.99	100.40	8,023.30	-136.58	747.52	-136.58	1.23	95	759.89	100.35	134.90
91	8180	8.08	98.10	8,117.24	-138.86	761.43	-138.86	1.02	95	773.99	100.34	134.90
92	8275	8.96	101.04	8,211.19	-141.22	775.30	-141.22	1.03	95	788.06	100.32	134.90
93	8370	8.67	103.15	8,305.07	-144.26	789.53	-144.26	0.46	95	802.60	100.35	134.90
94	8465	7.91	99.61	8,399.08	-146.98	802.95	-146.98	0.96	95	816.29	100.37	134.90
95	8559	5.92	99.43	8,492.39	-148.86	814.11	-148.86	2.12	94	827.61	100.36	134.90
96	8654	4.82	104.63	8,586.97	-150.67	822.81	-150.67	1.26	95	836.49	100.38	134.90
97	8748	4.72	107.93	8,680.65	-152.86	830.31	-152.86	0.31	94	844.26	100.43	134.90
98	8844	3.83	102.26	8,776.38	-154.75	837.20	-154.75	1.03	96	851.38	100.47	134.90
99	8939	4.03	106.96	8,871.16	-156.40	843.49	-156.40	0.40	95	857.87	100.50	134.90
100	9034	3.48	87.05	8,965.96	-157.23	849.56	-157.23	1.48	95	863.99	100.48	134.90
101	9129	2.92	72.86	9,060.81	-156.36	854.76	-156.36	1.02	95	868.94	100.37	134.90
102	9225	3.64	67.24	9,156.65	-154.46	859.90	-154.46	0.82	96	873.67	100.18	134.90
103	9320	3.01	65.27	9,251.49	-152.25	864.95	-152.25	0.67	95	878.25	99.98	142
104	9415	2.46	60.14	9,346.38	-150.20	868.98	-150.20	0.63	95	881.87	99.81	142
105	9509	3.29	100.42	9,440.27	-149.68	873.39	-149.68	2.26	94	886.12	99.72	142
106	9604	4.75	112.83	9,535.04	-151.70	879.69	-151.70	1.78	95	892.68	99.78	142
107	9699	4.07	116.33	9,629.76	-154.72	886.34	-154.72	0.77	95	899.74	99.90	142
108	9712	4.26	118.64	9,642.72	-155.16	887.18	-155.16	1.95	13	900.64	99.92	142
109	9799	5.25	103.03	9,729.43	-157.60	893.89	-157.60	1.86	87	907.68	100.00	134.90
110	9894	14.15	66.28	9,823.04	-153.90	908.80	-153.90	10.97	95	921.74	99.61	134.90
111	9989	28.33	51.19	9,911.42	-134.99	937.16	-134.99	15.88	95	946.83	98.20	134.90
112	10085	37.74	32.58	9,992.02	-95.77	970.89	-95.77	14.32	96	975.60	95.63	-9999
113	10180	48.14	21.99	10,061.56	-38.24	999.91	-38.24	13.29	95	1,000.64	92.19	-9999
114	10275	59.94	19.08	10,117.26	33.68	1,026.69	33.68	12.66	95	1,027.25	88.12	142
115	10370	70.31	18.50	10,157.16	115.17	1,054.40	115.17	10.93	95	1,060.67	83.77	-9999
116	10465	77.35	13.92	10,183.62	202.72	1,079.78	202.72	8.74	95	1,098.65	79.37	149.10
117	10559	79.58	7.68	10,202.43	293.14	1,097.01	293.14	6.92	94	1,135.50	75.04	149.10
118	10654	86.13	4.21	10,214.24	386.83	1,106.75	386.83	7.79	95	1,172.40	70.73	149.10
119	10674	86.97	4	10,215.45	406.75	1,108.18	406.75	4.33	20	1,180.46	69.84	-9999
120	10769	88.60	2.57	10,219.12	501.51	1,113.62	501.51	2.28	95	1,221.33	65.76	142
121	10864	87.45	0.75	10,222.39	596.41	1,116.37	596.41	2.27	95	1,265.69	61.89	142
122	10961	85.88	359.56	10,228.04	693.24	1,116.63	693.24	2.03	97	1,314.32	58.17	149.10
123	11056	84.81	359.99	10,235.75	787.93	1,116.26	787.93	1.21	95	1,366.33	54.78	149.10

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	CL	CD	CA	Temp
124	11150	85.96	359.50	10,243.31	881.62	1,115.84	881.62	1.33	94	1,422.09	51.69	149.10
125	11245	87.76	358.30	10,248.51	976.45	1,114.02	976.45	2.28	95	1,481.38	48.76	149.10
126	11340	93.14	359.90	10,247.77	1,071.40	1,112.53	1,071.40	5.91	95	1,544.54	46.08	149.10
127	11435	91.15	0.01	10,244.21	1,166.33	1,112.45	1,166.33	2.10	95	1,611.79	43.65	149.10
128	11530	89.80	0.41	10,243.42	1,261.32	1,112.80	1,261.32	1.48	95	1,682.04	41.42	156.30
129	11624	90.73	1.33	10,242.99	1,355.31	1,114.23	1,355.31	1.39	94	1,754.53	39.42	156.30
130	11719	88.85	1.52	10,243.34	1,450.27	1,116.59	1,450.27	1.99	95	1,830.32	37.59	156.30
131	11814	87.22	0.99	10,246.59	1,545.19	1,118.67	1,545.19	1.80	95	1,907.63	35.90	-9999
132	11906	88.04	1.91	10,250.40	1,637.08	1,120.99	1,637.08	1.34	92	1,984.10	34.40	156.30
133	12005	88.15	1.01	10,253.69	1,735.99	1,123.52	1,735.99	0.92	99	2,067.84	32.91	149.10
134	12099	88.21	2.80	10,256.68	1,829.89	1,126.64	1,829.89	1.90	94	2,148.91	31.62	149.10
135	12194	88.07	3.54	10,259.76	1,924.69	1,131.89	1,924.69	0.79	95	2,232.85	30.46	-9999
136	12288	88.04	3.46	10,262.95	2,018.47	1,137.62	2,018.47	0.09	94	2,316.98	29.41	-9999
137	12383	88.32	1.93	10,265.97	2,113.31	1,142.09	2,113.31	1.64	95	2,402.17	28.39	145
138	12478	89.41	0.08	10,267.85	2,208.27	1,143.75	2,208.27	2.26	95	2,486.89	27.38	-9999
139	12573	90.50	357.94	10,267.92	2,303.25	1,142.11	2,303.25	2.53	95	2,570.87	26.38	-9999
140	12668	90.67	357.66	10,266.95	2,398.17	1,138.47	2,398.17	0.34	95	2,654.68	25.39	-9999
141	12763	90.56	358.66	10,265.93	2,493.12	1,135.42	2,493.12	1.06	95	2,739.49	24.49	-9999
142	12858	91.32	358.98	10,264.38	2,588.08	1,133.46	2,588.08	0.87	95	2,825.41	23.65	-9999
143	12953	90.45	358.24	10,262.91	2,683.04	1,131.16	2,683.04	1.20	95	2,911.74	22.86	156.30
144	13048	89.92	359.78	10,262.60	2,778.03	1,129.51	2,778.03	1.71	95	2,998.87	22.13	156.30
145	13143	91.40	1.49	10,261.51	2,873.01	1,130.57	2,873.01	2.38	95	3,087.45	21.48	156.30
146	13237	89.02	0.79	10,261.16	2,966.98	1,132.44	2,966.98	2.64	94	3,175.75	20.89	156.30
147	13332	88.88	0.23	10,262.90	3,061.96	1,133.28	3,061.96	0.61	95	3,264.96	20.31	156.30
148	13427	88.52	359.92	10,265.06	3,156.94	1,133.41	3,156.94	0.50	95	3,354.23	19.75	163.40
149	13522	88.88	359.27	10,267.21	3,251.91	1,132.74	3,251.91	0.78	95	3,443.54	19.20	163.40
150	13617	89.80	359.08	10,268.31	3,346.89	1,131.37	3,346.89	0.99	95	3,532.94	18.68	163.40
151	13712	91.48	358.80	10,267.25	3,441.87	1,129.61	3,441.87	1.79	95	3,622.49	18.17	-9999
152	13807	92.33	358.68	10,264.09	3,536.79	1,127.52	3,536.79	0.90	95	3,712.17	17.68	-9999
153	13902	90.42	359.55	10,261.81	3,631.75	1,126.06	3,631.75	2.21	95	3,802.31	17.23	-9999
154	13997	90.48	359.96	10,261.06	3,726.74	1,125.65	3,726.74	0.44	95	3,893.03	16.81	-9999
155	14092	90.70	0.14	10,260.09	3,821.74	1,125.73	3,821.74	0.30	95	3,984.09	16.41	163.40
156	14187	90	0.78	10,259.51	3,916.73	1,126.50	3,916.73	1.00	95	4,075.51	16.05	-9999
157	14282	90.25	0.81	10,259.30	4,011.72	1,127.81	4,011.72	0.27	95	4,167.24	15.70	170.60
158	14377	91.15	0.46	10,258.14	4,106.71	1,128.87	4,106.71	1.02	95	4,259.04	15.37	170.60
159	14473	91.40	0.43	10,256.00	4,202.68	1,129.61	4,202.68	0.26	96	4,351.84	15.04	170.60
160	14568	91.09	1.53	10,253.94	4,297.64	1,131.24	4,297.64	1.20	95	4,444.03	14.75	170.60
161	14663	90.92	1.12	10,252.27	4,392.60	1,133.43	4,392.60	0.47	95	4,536.48	14.47	170.60
162	14758	91.79	0.70	10,250.02	4,487.56	1,134.94	4,487.56	1.02	95	4,628.86	14.19	170.60
163	14853	92.52	1.21	10,246.45	4,582.48	1,136.52	4,582.48	0.94	95	4,721.32	13.93	170.60
164	14948	91.76	1.60	10,242.90	4,677.39	1,138.85	4,677.39	0.90	95	4,814.03	13.68	-9999
165	15043	91.68	2.23	10,240.05	4,772.29	1,142.02	4,772.29	0.67	95	4,907.03	13.46	170.60
PTB	15117	91.68	2.23	10,237.88	4,846.20	1,144.90	4,846.20	0	74	4,979.61	13.29	0