

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD HOBBS OCD
MAY 08 2018
RECEIVED

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		5. Lease Serial No. NMNM0381550C	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Other		6. If Indian, Allottee or Tribe Name	
2. Name of Operator XTO ENERGY INCORPORATED		7. Unit or CA Agreement Name and No. NMNM135151	
Contact: TESSA FITZHUGH E-Mail: tessa_fitzhugh@xtoenergy.com		8. Lease Name and Well No. PERLA NEGRA FEDERAL COM 7H	
3. Address 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707		9. API Well No. 30-025-43812-00-S1	
3a. Phone No. (include area code) Ph: 432-620-4336		10. Field and Pool, or Exploratory BONE SPRINGS	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SWSE 200FSL 2050FEL 32.639133 N Lat, 103.511841 W Lon At top prod interval reported below SWSE 600FSL 2045FEL 32.640511 N Lat, 103.511795 W Lon At total depth NWNE 204FNL 1894FEL 32.652561 N Lat, 103.511345 W Lon		11. Sec., T., R., M., or Block and Survey or Area Sec 24 T19S R34E Mer NMP	
14. Date Spudded 09/09/2017		15. Date T.D. Reached 10/13/2017	
16. Date Completed ☐ D & A ☒ Ready to Prod. 02/10/2018		17. Elevations (DF, KB, RT, GL)* 3787 GL	
18. Total Depth: MD 15126 TVD 10393		19. Plug Back T.D.: MD 15022 TVD 10393	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) RCBL GR<CCL	
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 J55	54.5	0	1890		1610		0	
12.250	9.625 J55	40.0	0	4067		1170		0	
8.500	5.500 CYP-110	17.0	0	15106		1976		0	

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	9803							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING 2ND			10824 TO 14779	0.000		ACTIVE, PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10824 TO 14779	FRAC'D IN 23 STAGES USING 24038 GALS HCL ACID, 10839380 LBS PROPPANT & 9654207 GALS FLUID

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
02/20/2018			→	1578.0	1744.0	1272.0	47.3		→
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→	1578	1744	1272	1105	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	
			→						

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

ELECTRONIC SUBMISSION #411778 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation due: 08/10/2018



KZ

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.)
UNKNOWN

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	1838	2087		RUSTLER	1838
SALADO	2087	3284		SALADO	2087
YATES	3475	4058		YATES	3475
DELAWARE	6456	6697		DELAWARE	6456
BRUSHY CANYON	6697	8219		BONE SPRING	8219
BONE SPRING	8219	9562		BRUSHY CANYON	8219
BONE SPRING 1ST	9562	10086		BONE SPRING 1ST	9562
BONE SPRING 2ND	10086	10393		BONE SPRING 2ND	10086

32. Additional remarks (include plugging procedure):

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 #411778 Verified by the BLM Well Information System.
For XTO ENERGY INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by DUNCAN WHITLOCK on 04/23/2018 (18DW0126SE)

Name (please print) TESSA FITZHUGH

Title REG. ANALYST

Signature _____ (Electronic Submission)

Date 04/16/2018

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 ** REVISED ****

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

AS-DRILLED PLAT

¹ API Number 30-026-43812	² Pool Code 37870	³ Pool Name Lea Bone Spring
⁴ Property Code 39834	⁵ Property Name PERLA NEGRA FEDERAL COM	
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY	⁶ Well Number 7H
		⁹ Elevation 3787'

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	24	19 S	34 E		200	SOUTH	2,050	EAST	LEA

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
B	24	19 S	34 E		204	NORTH	1,894	EAST	LEA

¹² Dedicated Acres 100	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.

¹⁶ NOTE: AS-DRILLED BOTTOM HOLE PLOTTED FROM DATA FURNISHED BY XTO ENERGY		GEODETIC COORDINATES SURFACE LOCATION NAD 27 NME Y= 597,162.6 X= 753,030.7 LAT.= 32.639011°N LONG.= 103.511352°W FIRST TAKE POINT NAD 27 NME Y= 597,563.5 X= 753,031.3 LAT.= 32.640113°N LONG.= 103.511339°W CORNER COORDINATES TABLE NAD 27 NME A - Y= 602,242.6 N, X= 752,392.9 E B - Y= 602,253.6 N, X= 753,713.9 E C - Y= 596,970.0 N, X= 753,760.8 E D - Y= 596,956.7 N, X= 752,439.7 E CORNER COORDINATES TABLE NAD 83 NME A - Y= 602,306.2 N, X= 793,573.2 E B - Y= 602,317.3 N, X= 794,894.2 E C - Y= 597,033.4 N, X= 794,941.3 E D - Y= 597,020.2 N, X= 793,620.2 E LAST TAKE POINT NAD 27 NME Y= 601,905.7 X= 753,139.9 LAT.= 32.652046°N LONG.= 103.510878°W AS-DRILLED BOTTOM HOLE LOCATION NAD 27 NME Y= 602,046.5 X= 753,142.6 LAT.= 32.652432°N LONG.= 103.510865°W	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. Signature: <i>Tessa Fitzhugh</i> Date: 4-16-2018 Printed Name: Tessa Fitzhugh E-mail Address: tessa.fitzhugh@xtoenergy.com 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. 12-08-2017 Date of Survey Signature and Seal of Professional Surveyor: <i>[Signature]</i> MARK DILLON HARP 23786 Certificate Number AI 2017122084
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1625 N. French Dr., Hobbs, NM 88240

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1301 W Grand Avenue, Artesia, NM 88210

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State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address XTO Energy Inc. 6401 Holiday Hill Rd. Bldg 5 Midland, TX 79707		² OGRID Number 005380
		³ Reason for Filing Code/Effective Date NW
⁴ API Number 30-0 25-43812	⁵ Pool Name Lea; Bone Spring	⁶ Pool Code 37570
⁷ Property Code 39834	⁸ Property Name Perla Negra Federal Com	⁹ Well Number 1H

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
O	24	19S	34E		200	South	2050	East	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
B	24	19S	34E		204	North	1894	East	Lea

¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	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
195739	Plains Pipeline	O
24650	Targa Midstream Services Limited Partnership	G

IV. Well Completion Data

²¹ Spud Date 09/09/2017	²² Ready Date 02/10/2018	²³ TD 15126	²⁴ PBTD 10393	²⁵ Perforations 10824-14779	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2	13 3/8	1890	1610		
12 1/4	9 5/8	4067	1170		
8 3/4 / 8 1/2	5 1/2	15106	1976		

V. Well Test Data

³¹ Date New Oil 02/20/2018	³² Gas Delivery Date 02/22/2018	³³ Test Date 04/06/2018	³⁴ Test Length 24	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 1578	³⁹ Water 1272	⁴⁰ Gas 1744		⁴¹ Test Method pumping

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: *Tessa Fitzhugh*

OIL CONSERVATION DIVISION	
Approved by:	
Printed name: Tessa Fitzhugh	Title:
Title: Regulatory Analyst	Approval Date:
E-mail Address: tessa_fitzhugh@xtoenergy.com	
Date: 04/16/2018	Phone: 432-620-4336



Weatherford®

SURVEY REPORT

Report Date: 10/13/2017
 Customer: XTO Energy
 Job Name: MD-12672020
 Well Name: Perla Negra Federal Com 7H

Field: Bone Spring
 Rig: Frontier 26
 Rig Loc: Lea County, NM

Survey Calculation Method: Minimum Curvature

Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
Grid North	1.36 deg	48258 nT	60.45 deg	6.97 deg	0.44 deg	6.53 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	0.00 ft	0.00 deg	0.00 deg	0.00 ft	0.00 ft	0.00 ft

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	0.60	329.51	170.00	0.77	-0.45	0.76	0.35
231.00	0.58	324.59	230.99	1.29	-0.79	1.27	0.09
330.00	0.56	319.02	329.99	2.07	-1.40	2.03	0.06
424.00	0.58	327.26	423.98	2.81	-1.96	2.77	0.09
520.00	0.63	324.98	519.98	3.66	-2.52	3.59	0.06
618.00	0.56	325.98	617.97	4.49	-3.10	4.42	0.07
713.00	0.88	321.52	712.97	5.45	-3.82	5.36	0.34
807.00	0.77	329.34	806.96	6.56	-4.59	6.45	0.17
907.00	0.95	322.08	906.94	7.79	-5.44	7.66	0.21
1003.00	0.91	319.44	1002.93	9.00	-6.42	8.84	0.06
1100.00	0.80	321.46	1099.92	10.11	-7.35	9.93	0.12
1194.00	1.00	306.16	1193.91	11.11	-8.42	10.91	0.33
1289.00	1.28	261.52	1288.89	11.44	-10.14	11.20	0.95
1384.00	1.35	257.51	1383.87	11.04	-12.28	10.75	0.12
1481.00	1.11	236.50	1480.85	10.28	-14.18	9.94	0.52
1576.00	0.84	237.38	1575.83	9.39	-15.53	9.02	0.28
1671.00	0.64	221.15	1670.82	8.62	-16.47	8.23	0.30
1765.00	0.47	216.13	1764.82	7.91	-17.04	7.51	0.19
1825.00	0.36	250.80	1824.82	7.65	-17.36	7.24	0.45
1945.00	0.66	302.39	1944.81	7.90	-18.30	7.46	0.43
2041.00	0.51	309.01	2040.81	8.46	-19.10	8.01	0.17
2135.00	0.64	315.75	2134.80	9.10	-19.79	8.63	0.16
2231.00	0.38	304.09	2230.80	9.67	-20.43	9.18	0.29
2325.00	0.38	302.52	2324.80	10.01	-20.95	9.51	0.01
2419.00	0.63	300.75	2418.79	10.44	-21.66	9.92	0.27
2513.00	0.35	292.50	2512.79	10.81	-22.37	10.28	0.31
2608.00	0.56	89.04	2607.79	10.93	-22.17	10.40	0.94
2702.00	0.82	109.59	2701.78	10.71	-21.08	10.21	0.38
2798.00	0.77	84.41	2797.77	10.55	-19.79	10.07	0.36
2894.00	1.12	80.65	2893.76	10.76	-18.22	10.33	0.37
2989.00	1.29	81.80	2988.74	11.07	-16.25	10.68	0.18
3083.00	1.22	75.50	3082.72	11.47	-14.23	11.13	0.16
3176.00	1.33	66.49	3175.69	12.15	-12.28	11.85	0.25
3271.00	1.26	71.38	3270.67	12.92	-10.28	12.67	0.14

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
3364.00	1.25	62.03	3363.65	13.72	-8.42	13.52	0.22
3459.00	1.09	56.68	3458.63	14.70	-6.75	14.54	0.20
3554.00	1.06	53.99	3553.61	15.72	-5.28	15.59	0.06
3648.00	1.13	92.77	3647.59	16.18	-3.65	16.09	0.78
3743.00	1.13	107.04	3742.58	15.86	-1.82	15.82	0.30
3839.00	1.04	94.95	3838.56	15.51	-0.05	15.50	0.26
3932.00	1.04	89.51	3931.54	15.44	1.64	15.48	0.11
4013.00	0.97	94.72	4012.53	15.39	3.06	15.46	0.14
4148.00	0.69	88.07	4147.52	15.33	5.01	15.44	0.22
4244.00	0.64	75.82	4243.51	15.48	6.10	15.62	0.16
4340.00	0.71	70.03	4339.50	15.81	7.18	15.98	0.10
4436.00	0.29	188.77	4435.50	15.78	7.71	15.95	0.92
4532.00	1.46	251.54	4531.49	15.15	6.51	15.30	1.41
4628.00	1.50	240.08	4627.46	14.13	4.26	14.23	0.31
4725.00	1.39	252.47	4724.43	13.15	2.04	13.19	0.34
4821.00	1.61	255.68	4820.39	12.46	-0.38	12.45	0.25
4917.00	1.25	252.19	4916.36	11.81	-2.68	11.74	0.39
5013.00	1.25	249.00	5012.34	11.11	-4.66	11.00	0.07
5109.00	1.60	258.30	5108.31	10.47	-6.95	10.30	0.44
5205.00	1.22	251.87	5204.28	9.88	-9.23	9.65	0.43
5302.00	1.55	254.49	5301.25	9.20	-11.48	8.93	0.35
5397.00	0.66	224.82	5396.24	8.47	-13.10	8.16	1.08
5494.00	0.76	205.32	5493.23	7.49	-13.77	7.17	0.27
5590.00	1.09	205.34	5589.22	6.09	-14.43	5.75	0.34
5686.00	1.05	203.94	5685.20	4.47	-15.18	4.10	0.05
5782.00	0.84	225.51	5781.19	3.17	-16.04	2.79	0.43
5878.00	0.94	196.61	5877.18	1.92	-16.77	1.52	0.47
5974.00	1.38	203.96	5973.16	0.11	-17.46	-0.31	0.48
6070.00	0.53	187.71	6069.14	-1.39	-17.99	-1.81	0.92
6166.00	0.07	51.09	6165.14	-1.79	-18.00	-2.22	0.61
6261.00	0.28	5.09	6260.14	-1.52	-17.94	-1.95	0.25
6356.00	0.58	330.28	6355.14	-0.87	-18.16	-1.30	0.41
6449.00	0.55	210.98	6448.13	-0.85	-18.62	-1.29	1.05
6544.00	0.22	239.51	6543.13	-1.33	-19.01	-1.78	0.39
6638.00	0.29	194.16	6637.13	-1.65	-19.23	-2.11	0.22
6735.00	0.60	297.16	6734.13	-1.66	-19.74	-2.13	0.75
6830.00	0.55	309.04	6829.12	-1.15	-20.53	-1.63	0.14
6924.00	0.78	295.10	6923.12	-0.59	-21.46	-1.10	0.30
7020.00	0.85	272.70	7019.11	-0.28	-22.77	-0.82	0.34
7117.00	0.80	279.77	7116.10	-0.13	-24.15	-0.70	0.12
7213.00	0.16	192.78	7212.10	-0.15	-24.84	-0.74	0.84
7309.00	0.28	237.27	7308.09	-0.40	-25.07	-1.00	0.21
7405.00	0.70	219.00	7404.09	-0.99	-25.64	-1.60	0.46
7502.00	0.07	152.50	7501.09	-1.50	-25.98	-2.12	0.70
7598.00	0.45	252.78	7597.09	-1.66	-26.31	-2.29	0.49
7694.00	0.20	350.90	7693.09	-1.61	-26.70	-2.24	0.54
7790.00	0.14	279.40	7789.09	-1.43	-26.84	-2.06	0.21
7887.00	0.36	350.01	7886.09	-1.11	-27.01	-1.75	0.35
7983.00	0.00	0.00	7982.08	-0.81	-27.07	-1.45	0.38
8079.00	0.35	162.67	8078.08	-1.09	-26.98	-1.73	0.36

Depth (ft)	Inc (deg)	Azim (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
8174.00	0.45	176.35	8173.08	-1.74	-26.87	-2.38	0.14
8270.00	0.55	172.59	8269.08	-2.57	-26.78	-3.21	0.11
8366.00	0.63	258.10	8365.07	-3.14	-27.24	-3.78	0.84
8462.00	0.72	287.73	8461.07	-3.06	-28.33	-3.73	0.37
8558.00	0.60	302.59	8557.06	-2.61	-29.33	-3.30	0.22
8654.00	0.60	314.73	8653.06	-1.98	-30.11	-2.70	0.13
8750.00	0.56	340.44	8749.05	-1.19	-30.63	-1.91	0.27
8846.00	2.17	66.04	8845.03	-0.01	-29.12	-0.70	2.29
8942.00	1.53	96.36	8940.98	0.59	-26.19	-0.03	1.20
9036.00	0.75	155.13	9034.96	-0.11	-24.68	-0.69	1.39
9118.00	0.84	133.75	9116.95	-1.01	-24.02	-1.58	0.38
9213.00	0.88	128.52	9211.94	-1.95	-22.95	-2.49	0.09
9309.00	0.64	285.59	9307.94	-2.26	-22.89	-2.80	1.55
9411.00	1.88	321.60	9409.91	-0.80	-24.47	-1.38	1.39
9505.00	1.50	320.92	9503.87	1.37	-26.21	0.74	0.40
9599.00	1.65	304.61	9597.84	3.09	-28.10	2.42	0.50
9693.00	1.48	290.62	9691.80	4.29	-30.35	3.56	0.44
9788.00	1.44	292.61	9786.77	5.18	-32.60	4.40	0.07
9883.00	1.35	279.53	9881.74	5.82	-34.80	4.99	0.35
9930.00	3.14	320.86	9928.71	6.91	-36.16	6.05	4.91
9978.00	7.21	343.60	9976.51	10.82	-37.84	9.92	9.33
10025.00	10.13	355.80	10022.97	17.78	-38.98	16.85	7.31
10072.00	13.78	359.59	10068.94	27.50	-39.32	26.56	7.94
10119.00	17.99	358.59	10114.14	40.36	-39.54	39.41	8.98
10166.00	21.68	1.07	10158.34	56.30	-39.56	55.34	8.05
10197.00	23.45	5.91	10186.97	68.16	-38.81	67.22	8.27
10228.00	25.62	7.79	10215.17	80.94	-37.27	80.03	7.44
10260.00	28.81	7.53	10243.62	95.44	-35.32	94.58	9.98
10292.00	33.92	7.65	10270.94	111.95	-33.12	111.13	15.97
10323.00	39.33	7.52	10295.81	130.27	-30.68	129.51	17.45
10355.00	44.18	7.30	10319.67	151.40	-27.94	150.69	15.16
10387.00	49.04	6.99	10341.65	174.46	-25.05	173.82	15.20
10418.00	53.15	6.70	10361.12	198.41	-22.18	197.83	13.28
10450.00	57.66	6.08	10379.28	224.58	-19.25	224.06	14.18
10481.00	62.98	5.88	10394.62	251.36	-16.44	250.90	17.17
10512.00	67.46	5.73	10407.61	279.35	-13.60	278.95	14.46
10544.00	71.63	6.72	10418.79	309.15	-10.35	308.82	13.35
10575.00	75.07	6.99	10427.68	338.64	-6.80	338.38	11.13
10607.00	79.09	7.05	10434.83	369.59	-2.99	369.41	12.56
10639.00	82.00	6.26	10440.09	400.93	0.67	400.84	9.41
10686.00	85.59	5.72	10445.16	447.40	5.54	447.40	7.72
10733.00	87.55	3.43	10447.98	494.16	9.28	494.24	6.41
10780.00	88.53	1.25	10449.58	541.09	11.20	541.20	5.08
10828.00	89.16	0.71	10450.55	589.07	12.02	589.19	1.73
10922.00	92.66	359.76	10449.06	683.04	12.41	683.14	3.86
11016.00	93.43	0.20	10444.07	776.91	12.37	776.98	0.94
11110.00	92.38	1.32	10439.30	870.78	13.62	870.85	1.63
11204.00	91.12	4.10	10436.43	964.62	18.06	964.77	3.25
11299.00	89.51	1.04	10435.91	1059.50	22.32	1059.74	3.64
11394.00	89.65	0.75	10436.60	1154.49	23.80	1154.73	0.34

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
11488.00	90.98	0.25	10436.09	1248.48	24.62	1248.72	1.51
11583.00	90.42	1.04	10434.93	1343.47	25.69	1343.70	1.02
11676.00	91.61	1.02	10433.28	1436.44	27.37	1436.68	1.28
11771.00	91.75	1.81	10430.49	1531.37	29.71	1531.64	0.84
11865.00	90.00	3.16	10429.06	1625.26	33.79	1625.61	2.35
11960.00	91.12	3.52	10428.13	1720.09	39.32	1720.54	1.24
12054.00	90.07	3.06	10427.15	1813.93	44.71	1814.48	1.22
12148.00	90.56	3.18	10426.64	1907.79	49.83	1908.44	0.54
12242.00	89.51	2.45	10426.58	2001.68	54.45	2002.40	1.36
12336.00	89.58	1.26	10427.33	2095.62	57.49	2096.40	1.27
12430.00	90.77	0.84	10427.04	2189.60	59.21	2190.39	1.34
12524.00	92.03	0.86	10424.74	2283.56	60.61	2284.36	1.34
12618.00	90.49	0.93	10422.68	2377.53	62.07	2378.33	1.64
12711.00	90.84	1.21	10421.60	2470.50	63.81	2471.32	0.48
12806.00	92.45	1.30	10418.87	2565.44	65.89	2566.28	1.70
12900.00	91.47	0.82	10415.65	2659.37	67.63	2660.22	1.16
12994.00	90.00	0.62	10414.45	2753.35	68.81	2754.21	1.58
13088.00	91.26	0.37	10413.42	2847.34	69.62	2848.19	1.37
13205.00	90.56	359.89	10411.56	2964.32	69.89	2965.15	0.73
13300.00	89.65	0.14	10411.38	3059.32	69.91	3060.12	0.99
13394.00	87.76	0.89	10413.51	3153.29	70.76	3154.08	2.16
13488.00	88.18	0.42	10416.84	3247.22	71.83	3248.01	0.67
13583.00	88.60	359.89	10419.51	3342.18	72.09	3342.95	0.71
13677.00	89.23	359.39	10421.29	3436.16	71.50	3436.89	0.86
13771.00	90.35	358.46	10421.63	3530.14	69.73	3530.81	1.55
13866.00	90.42	0.09	10420.99	3625.13	68.53	3625.74	1.72
13960.00	91.26	2.90	10419.61	3719.08	70.98	3719.72	3.12
14054.00	91.96	2.99	10416.97	3812.92	75.81	3813.64	0.75
14149.00	90.28	3.09	10415.12	3907.76	80.85	3908.58	1.77
14242.00	91.05	2.65	10414.04	4000.64	85.50	4001.54	0.95
14336.00	91.61	2.14	10411.86	4094.53	89.43	4095.50	0.81
14430.00	90.07	1.99	10410.48	4188.46	92.82	4189.48	1.65
14524.00	90.70	1.50	10409.85	4282.41	95.68	4283.47	0.85
14618.00	91.33	1.15	10408.18	4376.37	97.85	4377.46	0.77
14711.00	90.56	1.92	10406.65	4469.32	100.34	4470.44	1.17
14806.00	90.77	2.01	10405.54	4564.26	103.60	4565.43	0.24
14901.00	91.54	1.84	10403.63	4659.19	106.79	4660.41	0.83
14995.00	92.52	1.41	10400.30	4753.09	109.45	4754.35	1.14
15061.00	92.87	0.92	10397.20	4819.00	110.80	4820.27	0.91

Projected to Total Depth:

15126.00	92.87	0.92	10393.94	4883.91	111.84	4885.19	0.00
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* Weatherford surveys from 170.00 ft MD to 15061.00 ft MD.*

* TD at 15126.00 ft MD.*

* The total correction is 6.53 deg relative to Grid North.*