

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

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 – 015-45497	⁵ Pool Name FORTY NINER RIDGE BONE SPRING		⁶ Pool Code 96526
⁷ Property Code 303152	⁸ Property Name NASH UNIT		⁹ Well Number 204H

II. ¹⁰ Surface Location

UL or lot no. B	Section 19	Township 23S	Range 30E	Lot Idn	Feet from the 610	North/South Line North	Feet from the 1955	East/West line East	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. 2	Section 6	Township 23S	Range 30E	Lot Idn	Feet from the 11	North/South line North	Feet from the 2302	East/West line East	County Eddy
¹² Lse Code F	¹³ Producing Method Code F		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
151618	Enterprise Field Services LLC	G
248440	Western Refining Co LLC	O

IV. Well Completion Data

²¹ Spud Date 6/2/19	²² Ready Date 01/31/20	²³ TD 25453	²⁴ PBDT 25450	²⁵ Perforations 9655-25258	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
24		18.625	415		790
17.5		13.375	3227		2520
12.25		9.625	9389		1880
8.5		5.5	25453		4275
		2.875	8555		

V. Well Test Data

³¹ Date New Oil 02/01/20	³² Gas Delivery Date 02/01/20	³³ Test Date 03/20/20	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 500	³⁶ Csg. Pressure 450
³⁷ Choke Size	³⁸ Oil 1800	³⁹ Water 3576	⁴⁰ Gas 2783		⁴¹ Test Method flowing
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: 			OIL CONSERVATION DIVISION		
Printed name: CHERYL ROWELL			Approved by: 		
Title: REGULATORY COORDINATOR			Title: Engineering Supervisor		
E-mail Address: CHERYL_ROWELL@XTOENERGY.COM			Approval Date: 10-02-2020		
Date: 04/01/20		Phone: 432-218-3754	Extension for 3160-4 is approved. Comply with NMOCD notice dated September 29, 2020.		

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 30-015-45497	² Pool Code 96526	³ Pool Name FORTY NINER RIDGE BONE SPRING, WEST
⁴ Property Code 303152	⁵ Property Name NASH UNIT	⁶ Well Number 204H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 3,074'

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	19	23 S	30 E		610	NORTH	1,955	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
2	6	23 S	30 E		11	NORTH	2,302	EAST	EDDY

¹² Dedicated Acres 480.25	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.

NOTE: AS-DRILLED BOTTOM HOLE PLOTTED
FROM DATA FURNISHED BY XTO ENERGY

16	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 471,683.1 X= 669,478.2 LAT.= 32.296049°N LONG.= 103.918624°W FIRST TAKE POINT NAD 83 NME Y= 472,419.4 X= 669,133.8 LAT.= 32.298077°N LONG.= 103.919729°W CORNER COORDINATES TABLE NAD 83 NME <table border="1" style="width: 100%; font-size: small;"> <tr><td>A - Y= 488,218.9 N, X= 670,042.8 E</td></tr> <tr><td>B - Y= 488,216.7 N, X= 668,705.0 E</td></tr> <tr><td>C - Y= 485,557.4 N, X= 670,041.6 E</td></tr> <tr><td>D - Y= 485,558.1 N, X= 668,703.8 E</td></tr> <tr><td>E - Y= 482,906.0 N, X= 670,040.5 E</td></tr> <tr><td>F - Y= 482,906.3 N, X= 668,702.7 E</td></tr> <tr><td>G - Y= 480,252.1 N, X= 670,051.7 E</td></tr> <tr><td>H - Y= 480,252.3 N, X= 668,714.2 E</td></tr> <tr><td>I - Y= 477,598.1 N, X= 670,062.9 E</td></tr> <tr><td>J - Y= 477,596.9 N, X= 668,725.8 E</td></tr> <tr><td>K - Y= 474,946.5 N, X= 670,077.4 E</td></tr> <tr><td>L - Y= 474,944.1 N, X= 668,739.6 E</td></tr> <tr><td>M - Y= 472,294.3 N, X= 670,091.2 E</td></tr> <tr><td>N - Y= 472,291.5 N, X= 668,753.5 E</td></tr> </table> CORNER COORDINATES TABLE NAD 27 NME <table border="1" style="width: 100%; font-size: small;"> <tr><td>A - Y= 488,159.0 N, X= 628,860.6 E</td></tr> <tr><td>B - Y= 488,156.7 N, X= 627,522.8 E</td></tr> <tr><td>C - Y= 485,497.5 N, X= 628,859.3 E</td></tr> <tr><td>D - Y= 485,498.2 N, X= 627,521.5 E</td></tr> <tr><td>E - Y= 482,846.2 N, X= 628,858.1 E</td></tr> <tr><td>F - Y= 482,846.5 N, X= 627,520.3 E</td></tr> <tr><td>G - Y= 480,192.3 N, X= 628,869.2 E</td></tr> <tr><td>H - Y= 480,192.5 N, X= 627,531.7 E</td></tr> <tr><td>I - Y= 477,538.4 N, X= 628,880.3 E</td></tr> <tr><td>J - Y= 477,537.2 N, X= 627,543.3 E</td></tr> <tr><td>K - Y= 474,886.9 N, X= 628,894.8 E</td></tr> <tr><td>L - Y= 474,884.5 N, X= 627,557.0 E</td></tr> <tr><td>M - Y= 472,234.7 N, X= 628,908.5 E</td></tr> <tr><td>N - Y= 472,231.9 N, X= 627,570.8 E</td></tr> </table> GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 471,623.5 X= 628,295.5 LAT.= 32.295927°N LONG.= 103.918132°W FIRST TAKE POINT NAD 27 NME Y= 472,359.8 X= 627,951.1 LAT.= 32.297954°N LONG.= 103.919238°W LAST TAKE POINT NAD 27 NME Y= 487,952.0 X= 627,890.9 LAT.= 32.340816°N LONG.= 103.919238°W BOTTOM HOLE LOCATION NAD 27 NME Y= 488,146.8 X= 627,896.1 LAT.= 32.341352°N LONG.= 103.919218°W	A - Y= 488,218.9 N, X= 670,042.8 E	B - Y= 488,216.7 N, X= 668,705.0 E	C - Y= 485,557.4 N, X= 670,041.6 E	D - Y= 485,558.1 N, X= 668,703.8 E	E - Y= 482,906.0 N, X= 670,040.5 E	F - Y= 482,906.3 N, X= 668,702.7 E	G - Y= 480,252.1 N, X= 670,051.7 E	H - Y= 480,252.3 N, X= 668,714.2 E	I - Y= 477,598.1 N, X= 670,062.9 E	J - Y= 477,596.9 N, X= 668,725.8 E	K - Y= 474,946.5 N, X= 670,077.4 E	L - Y= 474,944.1 N, X= 668,739.6 E	M - Y= 472,294.3 N, X= 670,091.2 E	N - Y= 472,291.5 N, X= 668,753.5 E	A - Y= 488,159.0 N, X= 628,860.6 E	B - Y= 488,156.7 N, X= 627,522.8 E	C - Y= 485,497.5 N, X= 628,859.3 E	D - Y= 485,498.2 N, X= 627,521.5 E	E - Y= 482,846.2 N, X= 628,858.1 E	F - Y= 482,846.5 N, X= 627,520.3 E	G - Y= 480,192.3 N, X= 628,869.2 E	H - Y= 480,192.5 N, X= 627,531.7 E	I - Y= 477,538.4 N, X= 628,880.3 E	J - Y= 477,537.2 N, X= 627,543.3 E	K - Y= 474,886.9 N, X= 628,894.8 E	L - Y= 474,884.5 N, X= 627,557.0 E	M - Y= 472,234.7 N, X= 628,908.5 E	N - Y= 472,231.9 N, X= 627,570.8 E	17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>Cheryl Rowell</i> 3/18/20 Signature Date Cheryl Rowell Printed Name cheryl_rowell@xtoenergy.com E-mail Address
A - Y= 488,218.9 N, X= 670,042.8 E																														
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18 SURVEYOR CERTIFICATION <i>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.</i> 3-11-2020 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number JC 2019083003																														

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? ☐

Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number



State of New Mexico
County of Eddy

I, Jeremy Esqueda, certify that: I am employed by WellBenders Directional Services LLC; that I did on the day(s) of June 5, 2019 through June 15, 2019 conduct or supervise the taking of MWD Directional Survey from a depth of 0 feet to a depth of 8,401feet; that the data is true, correct, complete and within the limitations of the tool as set forth by WellBenders Directional Services LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO Energy Inc. for the State of New Mexico; Well: Nash Unit 204H in Eddy County; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by WellBenders Directional Services LLC.

Jeremy Esqueda
(Sign Name)

Jeremy Esqueda
MWD Manager
Digitally Signed by Jeremy Esqueda

HALLIBURTON

3950 Interwood S. Pkwy • Houston, TX 77032
PHONE 281.986.4400 • FAX 281.986.4499

State of New Mexico, Eddy County

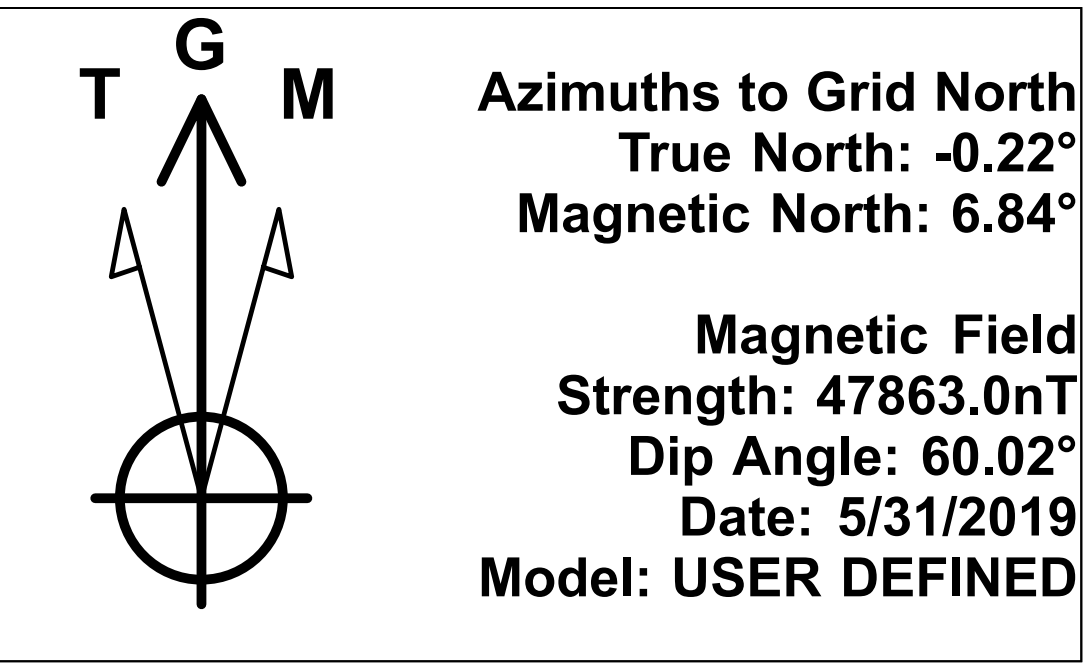
I, Kenneth Otalora certify that I am employed by Halliburton Energy Services, Inc. (aka Sperry Drilling) and that on the dates of June 17, 2019 through July 08, 2019, I did conduct or supervise the taking of MWD directional surveys for the 204H well from a depth of 8484' MD to a depth of 25453' MD. This data is true, correct, complete and within the limitations of the tools as set forth by Halliburton Energy Services, Inc. (aka Sperry Drilling). I am authorized and qualified to make this report and these surveys were conducted at the request of XTO Energy Inc., for the 204H well in Eddy County. I have reviewed this report and find that it confirms to the principles and procedures as set forth by Halliburton Energy Services, Inc. (aka Sperry Drilling.)



Kenneth Otalora
Field Engineer



Project: Eddy County, NM (NAD27)
Site: Nash Unit (Grid North)
Well: 204H
Wellbore: Wellbore #1
Design: Final Surveys
Rig: Akita 90



XTO Energy Inc.

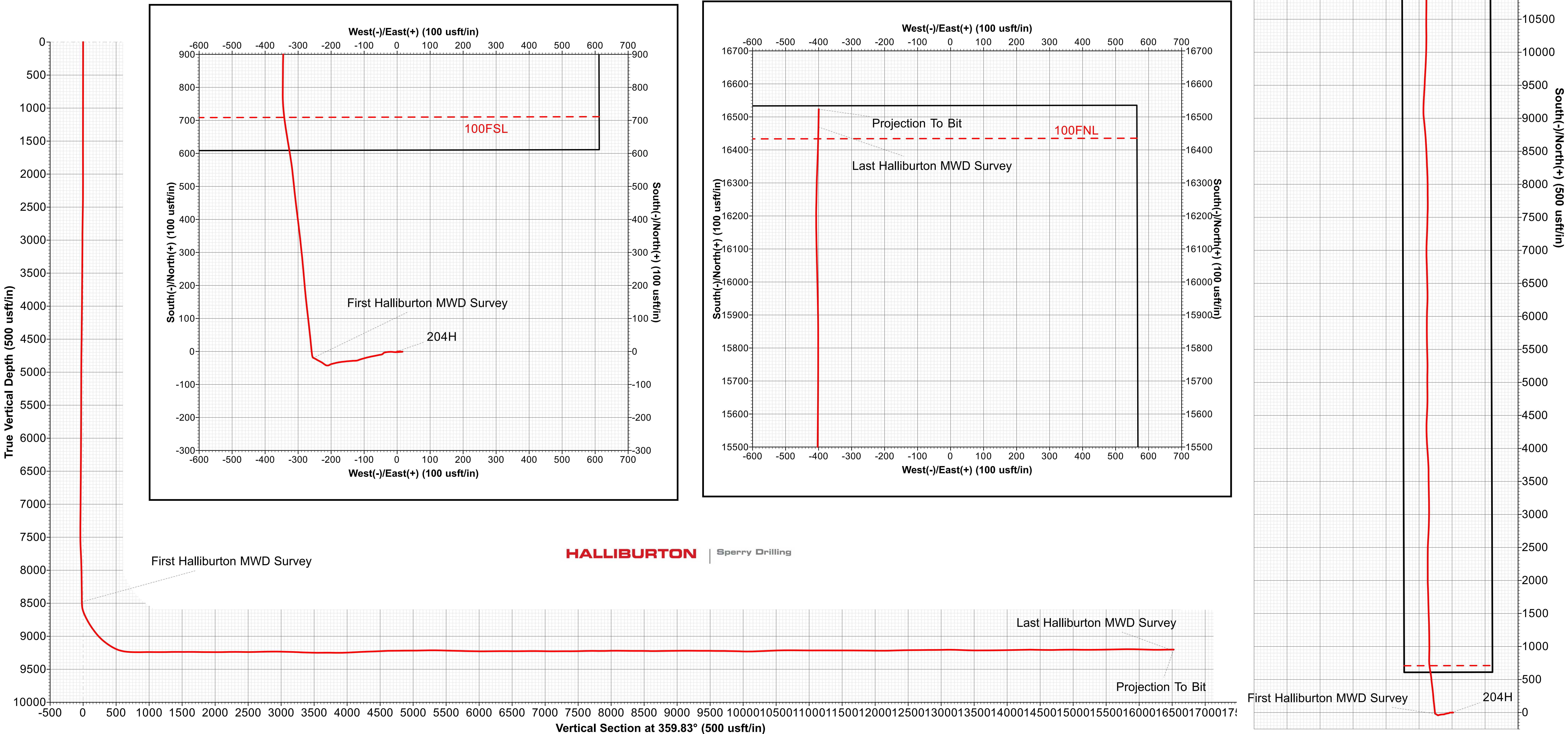
GL+KB 30' @ 3104.00usft (Akita 90)

GL=3074.00

WELL DETAILS

			3074.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	471623.50	628295.50	32.29592678	-103.91813233

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001



Akita 90

XTO Energy Inc.

Eddy County, NM (NAD27) Nash Unit (Grid North)

API#

204H

Wellbore #1

Design: Final Surveys

Sperry Drilling Services

Combo Report

11 July, 2019

Well Coordinates: 32.29592678
-103.91813233

NAD 1927 (NADCON CONUS)
New Mexico East 3001
471,623.50 N
628,295.50 E

Ground Level: 3,074.00 usft

Local Coordinate Origin:

Centered on Well 204H

Viewing Datum:

GL+KB 30' @ 3104.00usft (Akita 90)

TVDs to System:

N

North Reference:

Grid

Unit System:

Midcon (2 decimal)

Version: 5000.15 Build: 91

Report Version: Midcon Combo v1.13

HALLIBURTON

Design Report for 204H - Final Surveys

Measured		Grid	Vertical	Local Coordinates		Map Coordinates		Dogleg	Vertical	Toolface	
Depth	Inclination	Azimuth	Depth	Northing	Easting	Northing	Easting	Rate	Section	Angle	Comments
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(usft)	(°)	
0.00	0.00	0.00	0.00	0.00 N	0.00 E	471,623.50	628,295.50	0.00	0.00	0.00	
122.00	1.10	91.00	121.99	0.02 S	1.17 E	471,623.48	628,296.67	0.90	-0.02	91.00	
212.00	1.50	92.00	211.97	0.08 S	3.21 E	471,623.42	628,298.71	0.45	-0.09	3.75	
306.00	2.30	81.00	305.92	0.18 N	6.30 E	471,623.68	628,301.80	0.93	0.16	-30.07	
358.00	2.00	112.00	357.88	0.00 S	8.18 E	471,623.50	628,303.68	2.28	-0.03	119.61	
442.00	1.50	94.61	441.84	0.64 S	10.63 E	471,622.86	628,306.13	0.86	-0.67	-141.74	
534.00	1.60	91.40	533.81	0.77 S	13.12 E	471,622.73	628,308.62	0.14	-0.81	-42.58	
623.00	0.90	87.30	622.79	0.76 S	15.06 E	471,622.74	628,310.56	0.79	-0.81	-174.77	
712.00	0.40	92.50	711.78	0.74 S	16.06 E	471,622.76	628,311.56	0.57	-0.79	175.87	
809.00	0.20	277.00	808.78	0.74 S	16.23 E	471,622.76	628,311.73	0.62	-0.79	-178.50	
903.00	1.10	267.20	902.77	0.76 S	15.17 E	471,622.74	628,310.67	0.96	-0.81	-11.96	
998.00	1.40	263.90	997.75	0.93 S	13.11 E	471,622.57	628,308.61	0.32	-0.97	-15.15	
1,095.00	1.60	263.90	1,094.72	1.20 S	10.58 E	471,622.30	628,306.08	0.21	-1.23	0.00	
1,191.00	1.60	262.70	1,190.68	1.51 S	7.92 E	471,621.99	628,303.42	0.03	-1.54	-90.60	
1,285.00	1.70	266.80	1,284.64	1.76 S	5.23 E	471,621.74	628,300.73	0.16	-1.77	51.79	
1,382.00	1.90	266.60	1,381.59	1.93 S	2.18 E	471,621.57	628,297.68	0.21	-1.94	-1.90	
1,479.00	1.90	268.30	1,478.54	2.08 S	1.03 W	471,621.42	628,294.47	0.06	-2.07	90.85	
1,565.00	2.00	269.40	1,564.49	2.13 S	3.95 W	471,621.37	628,291.55	0.12	-2.12	21.07	
1,666.00	1.80	275.80	1,665.44	1.99 S	7.29 W	471,621.51	628,288.21	0.29	-1.97	136.47	
1,761.00	1.60	276.10	1,760.39	1.70 S	10.10 W	471,621.80	628,285.40	0.21	-1.67	177.60	
1,857.00	1.80	276.00	1,856.35	1.40 S	12.93 W	471,622.10	628,282.57	0.21	-1.36	-0.90	
1,951.00	2.20	273.10	1,950.29	1.15 S	16.20 W	471,622.35	628,279.30	0.44	-1.10	-15.65	
2,046.00	2.50	269.30	2,045.21	1.08 S	20.09 W	471,622.42	628,275.41	0.36	-1.02	-29.35	
2,141.00	2.80	265.80	2,140.11	1.27 S	24.48 W	471,622.23	628,271.02	0.36	-1.20	-30.10	
2,237.00	3.10	263.70	2,235.98	1.73 S	29.40 W	471,621.77	628,266.10	0.33	-1.64	-20.86	
2,327.00	1.90	260.30	2,325.90	2.25 S	33.29 W	471,621.25	628,262.21	1.34	-2.15	-174.65	
2,422.00	1.90	256.90	2,420.85	2.87 S	36.37 W	471,620.63	628,259.13	0.12	-2.76	-91.70	
2,517.00	1.80	251.10	2,515.80	3.71 S	39.32 W	471,619.79	628,256.18	0.22	-3.59	-120.98	
2,611.00	1.60	221.10	2,609.76	5.18 S	41.58 W	471,618.32	628,253.92	0.96	-5.05	-117.38	
2,706.00	1.70	219.30	2,704.72	7.27 S	43.34 W	471,616.23	628,252.16	0.12	-7.14	-28.30	
2,801.00	1.80	253.80	2,799.68	8.77 S	45.67 W	471,614.73	628,249.83	1.10	-8.64	101.98	
2,896.00	1.70	249.30	2,894.63	9.69 S	48.42 W	471,613.81	628,247.08	0.18	-9.54	-128.28	
2,992.00	1.80	270.20	2,990.59	10.19 S	51.26 W	471,613.31	628,244.24	0.67	-10.03	91.64	
3,079.00	2.10	260.30	3,077.54	10.45 S	54.20 W	471,613.05	628,241.30	0.52	-10.29	-53.33	
3,157.00	2.10	254.80	3,155.48	11.06 S	56.98 W	471,612.44	628,238.52	0.26	-10.90	-92.75	
3,276.00	2.10	259.40	3,274.40	12.04 S	61.23 W	471,611.46	628,234.27	0.14	-11.86	92.30	

Design Report for 204H - Final Surveys

Measured		Grid	Vertical	Local Coordinates		Map Coordinates		Dogleg	Vertical	Toolface	
Depth	Inclination	Azimuth	Depth	Northing	Easting	Northing	Easting	Rate	Section	Angle	Comments
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(usft)	(°)	
3,371.00	2.20	259.40	3,369.34	12.69 S	64.73 W	471,610.81	628,230.77	0.11	-12.50	0.00	
3,466.00	2.20	258.50	3,464.27	13.39 S	68.31 W	471,610.11	628,227.19	0.04	-13.19	-90.45	
3,561.00	2.20	258.90	3,559.20	14.11 S	71.89 W	471,609.39	628,223.61	0.02	-13.89	90.20	
3,656.00	2.20	258.90	3,654.13	14.81 S	75.47 W	471,608.69	628,220.03	0.00	-14.58	0.00	
3,751.00	2.29	257.40	3,749.05	15.57 S	79.11 W	471,607.93	628,216.39	0.11	-15.34	-33.89	
3,846.00	2.30	257.30	3,843.98	16.41 S	82.82 W	471,607.09	628,212.68	0.01	-16.16	-21.87	
3,941.00	2.20	257.10	3,938.91	17.23 S	86.46 W	471,606.27	628,209.04	0.11	-16.98	-175.61	
4,035.00	2.30	256.20	4,032.83	18.09 S	90.05 W	471,605.41	628,205.45	0.11	-17.82	-19.91	
4,130.00	2.20	254.90	4,127.76	19.02 S	93.66 W	471,604.48	628,201.84	0.12	-18.74	-153.61	
4,225.00	2.20	254.80	4,222.69	19.97 S	97.18 W	471,603.53	628,198.32	0.00	-19.68	-90.05	
4,320.00	2.30	254.00	4,317.62	20.97 S	100.77 W	471,602.53	628,194.73	0.11	-20.67	-17.84	
4,415.00	2.30	255.60	4,412.54	21.97 S	104.45 W	471,601.53	628,191.05	0.07	-21.66	90.80	
4,510.00	2.30	253.00	4,507.46	23.00 S	108.12 W	471,600.50	628,187.38	0.11	-22.68	-91.30	
4,605.00	2.40	251.10	4,602.38	24.20 S	111.83 W	471,599.30	628,183.67	0.13	-23.87	-38.87	
4,699.00	2.50	249.40	4,696.30	25.56 S	115.61 W	471,597.94	628,179.89	0.13	-25.22	-36.86	
4,794.00	2.60	249.70	4,791.20	27.04 S	119.57 W	471,596.46	628,175.93	0.11	-26.68	7.75	
4,889.00	2.30	265.60	4,886.12	27.93 S	123.49 W	471,595.57	628,172.01	0.78	-27.57	121.62	
4,984.00	2.20	267.90	4,981.04	28.15 S	127.21 W	471,595.35	628,168.29	0.14	-27.77	139.06	
5,079.00	2.20	267.60	5,075.97	28.29 S	130.86 W	471,595.21	628,164.64	0.01	-27.90	-90.15	
5,174.00	2.30	267.80	5,170.90	28.44 S	134.58 W	471,595.06	628,160.92	0.11	-28.04	4.59	
5,269.00	2.40	265.80	5,265.82	28.66 S	138.47 W	471,594.84	628,157.03	0.14	-28.25	-40.36	
5,364.00	2.40	264.70	5,360.74	28.99 S	142.44 W	471,594.51	628,153.06	0.05	-28.56	-90.55	
5,458.00	2.40	265.20	5,454.66	29.33 S	146.36 W	471,594.17	628,149.14	0.02	-28.90	90.25	
5,553.00	2.30	266.40	5,549.58	29.62 S	150.24 W	471,593.88	628,145.26	0.12	-29.17	154.40	
5,648.00	2.30	262.80	5,644.50	29.98 S	154.03 W	471,593.52	628,141.47	0.15	-29.52	-91.80	
5,743.00	2.20	263.80	5,739.43	30.41 S	157.74 W	471,593.09	628,137.76	0.11	-29.95	159.06	
5,838.00	2.20	263.50	5,834.36	30.82 S	161.36 W	471,592.68	628,134.14	0.01	-30.34	-90.15	
5,933.00	2.20	263.10	5,929.29	31.24 S	164.98 W	471,592.26	628,130.52	0.02	-30.75	-90.20	
6,028.00	2.20	262.70	6,024.22	31.69 S	168.60 W	471,591.81	628,126.90	0.02	-31.19	-90.20	
6,123.00	2.00	260.80	6,119.15	32.19 S	172.05 W	471,591.31	628,123.45	0.22	-31.68	-161.75	
6,218.00	2.11	261.16	6,214.09	32.72 S	175.41 W	471,590.78	628,120.09	0.12	-32.20	6.87	
6,313.00	2.11	261.16	6,309.03	33.26 S	178.87 W	471,590.24	628,116.63	0.00	-32.73	0.00	
6,408.00	1.89	255.98	6,403.97	33.91 S	182.12 W	471,589.59	628,113.38	0.30	-33.37	-143.16	
6,503.00	1.89	256.15	6,498.92	34.67 S	185.16 W	471,588.83	628,110.34	0.01	-34.12	90.08	
6,598.00	1.89	256.94	6,593.87	35.39 S	188.21 W	471,588.11	628,107.29	0.03	-34.84	90.39	
6,693.00	1.90	256.90	6,688.81	36.11 S	191.27 W	471,587.39	628,104.23	0.01	-35.54	-7.55	
6,787.00	1.90	256.00	6,782.76	36.84 S	194.30 W	471,586.66	628,101.20	0.03	-36.26	-90.45	

Design Report for 204H - Final Surveys

Measured		Grid	Vertical	Local Coordinates		Map Coordinates		Dogleg	Vertical	Toolface	Comments
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)	Rate (°/100usft)	Section (usft)	Angle (°)	
6,882.00	1.80	255.40	6,877.71	37.59 S	197.27 W	471,585.91	628,098.23	0.11	-37.01	-169.34	
6,977.00	1.80	250.40	6,972.67	38.47 S	200.12 W	471,585.03	628,095.38	0.17	-37.87	-92.50	
7,072.00	1.70	242.10	7,067.62	39.63 S	202.77 W	471,583.87	628,092.73	0.29	-39.03	-115.64	
7,167.00	1.60	236.80	7,162.58	41.01 S	205.12 W	471,582.49	628,090.38	0.19	-40.41	-125.87	
7,261.00	1.58	255.98	7,256.55	42.05 S	207.48 W	471,581.45	628,088.02	0.56	-41.43	101.72	
7,356.00	1.40	264.60	7,351.51	42.47 S	209.90 W	471,581.03	628,085.60	0.30	-41.85	133.02	
7,451.00	1.60	273.90	7,446.48	42.49 S	212.38 W	471,581.01	628,083.12	0.33	-41.86	55.31	
7,546.00	1.80	282.60	7,541.44	42.08 S	215.16 W	471,581.42	628,080.34	0.34	-41.44	56.63	
7,641.00	4.90	308.80	7,636.27	39.21 S	219.78 W	471,584.29	628,075.72	3.56	-38.56	39.77	
7,736.00	5.20	303.50	7,730.90	34.29 S	226.53 W	471,589.21	628,068.97	0.58	-33.62	-59.92	
7,831.00	4.60	296.10	7,825.56	30.24 S	233.54 W	471,593.26	628,061.96	0.92	-29.54	-137.15	
7,926.00	3.30	297.90	7,920.33	27.28 S	239.38 W	471,596.22	628,056.12	1.37	-26.57	175.45	
8,021.00	1.80	303.79	8,015.23	25.17 S	243.04 W	471,598.33	628,052.46	1.60	-24.45	173.02	
8,116.00	1.58	299.75	8,110.19	23.69 S	245.42 W	471,599.81	628,050.08	0.26	-22.96	-153.57	
8,211.00	1.60	297.80	8,205.15	22.42 S	247.73 W	471,601.08	628,047.77	0.06	-21.69	-70.69	
8,306.00	1.50	298.30	8,300.12	21.22 S	249.99 W	471,602.28	628,045.51	0.11	-20.47	172.55	
8,401.00	1.40	297.70	8,395.09	20.09 S	252.12 W	471,603.41	628,043.38	0.11	-19.34	-171.67	
8,484.00	1.65	284.93	8,478.06	19.31 S	254.17 W	471,604.19	628,041.33	0.51	-18.55	-60.16	First Halliburton MWD Survey
8,531.00	3.60	324.91	8,525.01	17.93 S	255.67 W	471,605.57	628,039.83	5.46	-17.17	64.37	
8,579.00	10.40	348.63	8,572.63	12.44 S	257.39 W	471,611.06	628,038.11	15.10	-11.67	35.14	
8,626.00	18.85	354.34	8,618.07	0.70 S	258.98 W	471,622.80	628,036.52	18.22	0.07	12.47	
8,674.00	23.34	354.64	8,662.84	16.49 N	260.64 W	471,639.99	628,034.86	9.36	17.26	1.52	
8,721.00	25.92	354.22	8,705.56	35.98 N	262.54 W	471,659.48	628,032.96	5.50	36.76	-4.07	
8,769.00	28.41	353.74	8,748.26	57.77 N	264.84 W	471,681.27	628,030.66	5.21	58.56	-5.24	
8,816.00	30.05	353.51	8,789.28	80.58 N	267.39 W	471,704.08	628,028.11	3.50	81.38	-4.02	
8,863.00	32.45	353.44	8,829.46	104.81 N	270.16 W	471,728.31	628,025.34	5.11	105.61	-0.90	
8,910.00	34.83	353.43	8,868.58	130.67 N	273.14 W	471,754.17	628,022.36	5.06	131.48	-0.14	
8,959.00	36.51	354.01	8,908.39	159.07 N	276.26 W	471,782.57	628,019.24	3.50	159.89	11.62	
9,006.00	38.31	354.79	8,945.72	187.49 N	279.04 W	471,810.99	628,016.46	3.96	188.31	15.06	
9,053.00	40.76	355.11	8,981.97	217.28 N	281.68 W	471,840.78	628,013.82	5.23	218.12	4.88	
9,100.00	44.42	355.02	9,016.56	248.97 N	284.41 W	471,872.47	628,011.09	7.79	249.81	-0.99	
9,148.00	48.28	354.18	9,049.69	283.54 N	287.69 W	471,907.04	628,007.81	8.14	284.39	-9.24	
9,195.00	50.82	353.78	9,080.18	319.10 N	291.44 W	471,942.60	628,004.06	5.44	319.97	-6.96	
9,243.00	53.63	353.51	9,109.58	356.81 N	295.64 W	471,980.31	627,999.86	5.87	357.68	-4.43	
9,290.00	57.25	353.09	9,136.24	395.24 N	300.16 W	472,018.74	627,995.34	7.74	396.13	-5.58	
9,338.00	60.25	352.85	9,161.13	435.96 N	305.18 W	472,059.46	627,990.32	6.26	436.87	-3.98	
9,409.00	65.04	354.21	9,193.75	498.60 N	312.27 W	472,122.10	627,983.23	6.96	499.53	14.47	

Design Report for 204H - Final Surveys

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
9,456.00	72.55	353.80	9,210.74	542.15 N	316.85 W	472,165.65	627,978.65	16.00	543.09	-2.99	
9,504.00	77.85	350.95	9,223.00	588.12 N	323.02 W	472,211.62	627,972.48	12.44	589.08	-27.85	
9,551.00	81.34	350.11	9,231.48	633.71 N	330.62 W	472,257.21	627,964.88	7.63	634.69	-13.40	
9,599.00	86.11	351.64	9,236.73	680.81 N	338.18 W	472,304.31	627,957.32	10.43	681.81	17.77	
9,646.00	87.65	354.37	9,239.29	727.38 N	343.90 W	472,350.88	627,951.60	6.66	728.40	60.62	
9,694.00	87.93	359.35	9,241.14	775.26 N	346.52 W	472,398.76	627,948.98	10.38	776.28	86.88	
9,789.00	91.73	1.59	9,241.42	870.23 N	345.74 W	472,493.73	627,949.76	4.64	871.25	30.53	
9,884.00	90.71	0.52	9,239.40	965.19 N	344.00 W	472,588.69	627,951.50	1.56	966.21	-133.62	
9,979.00	89.04	359.40	9,239.61	1,060.19 N	344.06 W	472,683.69	627,951.44	2.12	1,061.20	-146.15	
10,074.00	90.18	359.32	9,240.25	1,155.18 N	345.12 W	472,778.68	627,950.38	1.20	1,156.20	-4.01	
10,169.00	90.57	358.89	9,239.63	1,250.16 N	346.61 W	472,873.66	627,948.89	0.61	1,251.19	-47.79	
10,263.00	91.64	358.31	9,237.82	1,344.12 N	348.90 W	472,967.62	627,946.60	1.29	1,345.15	-28.45	
10,358.00	88.99	358.20	9,237.30	1,439.06 N	351.80 W	473,062.56	627,943.70	2.79	1,440.10	-177.62	
10,453.00	89.94	358.29	9,238.18	1,534.01 N	354.71 W	473,157.51	627,940.79	1.00	1,535.06	5.41	
10,547.00	90.80	358.14	9,237.58	1,627.96 N	357.63 W	473,251.46	627,937.87	0.93	1,629.02	-9.89	
10,643.00	89.10	359.03	9,237.66	1,723.93 N	360.00 W	473,347.43	627,935.50	2.00	1,724.99	152.37	
10,737.00	88.52	358.15	9,239.61	1,817.88 N	362.32 W	473,441.38	627,933.18	1.12	1,818.95	-123.40	
10,833.00	90.43	357.22	9,240.49	1,913.79 N	366.19 W	473,537.29	627,929.31	2.21	1,914.87	-25.97	
10,928.00	89.44	0.25	9,240.60	2,008.76 N	368.29 W	473,632.26	627,927.21	3.36	2,009.84	108.09	
11,022.00	90.80	359.95	9,240.40	2,102.75 N	368.13 W	473,726.25	627,927.37	1.48	2,103.84	-12.44	
11,134.00	91.73	359.45	9,237.93	2,214.72 N	368.71 W	473,838.22	627,926.79	0.94	2,215.81	-28.25	
11,229.00	89.63	0.43	9,236.80	2,309.71 N	368.81 W	473,933.21	627,926.69	2.44	2,310.79	154.98	
11,323.00	88.89	0.34	9,238.02	2,403.70 N	368.18 W	474,027.20	627,927.32	0.79	2,404.78	-173.07	
11,419.00	89.69	0.89	9,239.21	2,499.69 N	367.15 W	474,123.19	627,928.35	1.01	2,500.76	34.51	
11,513.00	91.73	3.72	9,238.04	2,593.59 N	363.37 W	474,217.09	627,932.13	3.71	2,594.65	54.20	
11,609.00	91.49	3.20	9,235.34	2,689.37 N	357.58 W	474,312.87	627,937.92	0.60	2,690.42	-114.78	
11,704.00	90.93	2.04	9,233.34	2,784.25 N	353.24 W	474,407.75	627,942.26	1.36	2,785.29	-115.76	
11,798.00	90.31	1.34	9,232.32	2,878.20 N	350.47 W	474,501.70	627,945.03	0.99	2,879.23	-131.53	
11,893.00	88.95	0.77	9,232.94	2,973.18 N	348.72 W	474,596.68	627,946.78	1.55	2,974.21	-157.26	
11,988.00	88.21	0.03	9,235.29	3,068.15 N	348.05 W	474,691.65	627,947.45	1.10	3,069.17	-135.02	
12,083.00	88.70	359.62	9,237.85	3,163.12 N	348.34 W	474,786.62	627,947.16	0.67	3,164.14	-39.92	
12,178.00	86.97	358.68	9,241.44	3,258.03 N	349.75 W	474,881.53	627,945.75	2.07	3,259.06	-151.52	
12,273.00	88.08	358.99	9,245.54	3,352.92 N	351.68 W	474,976.42	627,943.82	1.21	3,353.95	15.60	
12,368.00	88.70	359.34	9,248.21	3,447.87 N	353.07 W	475,071.37	627,942.43	0.75	3,448.91	29.44	
12,463.00	88.89	358.40	9,250.21	3,542.83 N	354.94 W	475,166.33	627,940.56	1.01	3,543.87	-78.58	
12,558.00	92.10	0.61	9,249.39	3,637.81 N	355.76 W	475,261.31	627,939.74	4.10	3,638.85	34.54	

Design Report for 204H - Final Surveys

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
12,652.00	88.58	357.33	9,248.83	3,731.76 N	357.45 W	475,355.26	627,938.05	5.12	3,732.81	-137.00	
12,747.00	89.01	356.33	9,250.83	3,826.60 N	362.70 W	475,450.10	627,932.80	1.15	3,827.66	-66.74	
12,842.00	91.73	356.24	9,250.21	3,921.39 N	368.86 W	475,544.89	627,926.64	2.86	3,922.46	-1.89	
12,937.00	92.35	355.52	9,246.83	4,016.08 N	375.68 W	475,639.58	627,919.82	1.00	4,017.18	-49.24	
13,032.00	93.21	357.71	9,242.22	4,110.80 N	381.28 W	475,734.30	627,914.22	2.47	4,111.91	68.49	
13,127.00	92.72	358.15	9,237.31	4,205.61 N	384.71 W	475,829.11	627,910.79	0.69	4,206.73	138.10	
13,222.00	92.04	359.30	9,233.37	4,300.50 N	386.82 W	475,924.00	627,908.68	1.41	4,301.63	120.59	
13,316.00	91.67	2.17	9,230.32	4,394.43 N	385.61 W	476,017.93	627,909.89	3.08	4,395.56	97.30	
13,411.00	93.41	2.81	9,226.11	4,489.24 N	381.49 W	476,112.74	627,914.01	1.95	4,490.36	20.16	
13,538.00	91.54	2.90	9,220.63	4,615.96 N	375.17 W	476,239.46	627,920.33	1.47	4,617.06	177.25	
13,632.00	89.69	0.37	9,219.62	4,709.91 N	372.49 W	476,333.41	627,923.01	3.33	4,710.99	-126.16	
13,696.00	90.80	359.19	9,219.35	4,773.90 N	372.74 W	476,397.40	627,922.76	2.53	4,774.99	-46.75	
13,791.00	90.37	359.58	9,218.38	4,868.89 N	373.75 W	476,492.39	627,921.75	0.61	4,869.98	137.79	
13,886.00	90.31	0.05	9,217.81	4,963.89 N	374.06 W	476,587.39	627,921.44	0.50	4,964.98	97.27	
13,981.00	90.25	0.45	9,217.35	5,058.89 N	373.65 W	476,682.39	627,921.85	0.43	5,059.97	98.53	
14,075.00	92.54	0.88	9,215.06	5,152.85 N	372.56 W	476,776.35	627,922.94	2.48	5,153.93	10.63	
14,170.00	89.63	359.84	9,213.26	5,247.82 N	371.96 W	476,871.32	627,923.54	3.25	5,248.90	-160.32	
14,265.00	90.18	358.77	9,213.42	5,342.81 N	373.11 W	476,966.31	627,922.39	1.27	5,343.89	-62.80	
14,360.00	87.84	358.04	9,215.06	5,437.75 N	375.76 W	477,061.25	627,919.74	2.58	5,438.84	-162.68	
14,455.00	88.58	358.78	9,218.03	5,532.67 N	378.39 W	477,156.17	627,917.11	1.10	5,533.76	45.00	
14,550.00	88.82	359.09	9,220.18	5,627.62 N	380.16 W	477,251.12	627,915.34	0.41	5,628.73	52.25	
14,645.00	88.46	359.39	9,222.44	5,722.59 N	381.42 W	477,346.09	627,914.08	0.49	5,723.70	140.21	
14,740.00	88.89	0.25	9,224.63	5,817.56 N	381.71 W	477,441.06	627,913.79	1.01	5,818.67	63.44	
14,835.00	88.95	0.31	9,226.42	5,912.54 N	381.25 W	477,536.04	627,914.25	0.09	5,913.65	45.00	
14,930.00	88.95	0.95	9,228.17	6,007.52 N	380.21 W	477,631.02	627,915.29	0.67	6,008.62	90.01	
15,025.00	90.87	2.11	9,228.31	6,102.48 N	377.67 W	477,725.98	627,917.83	2.36	6,103.58	31.14	
15,120.00	90.80	2.38	9,226.93	6,197.40 N	373.95 W	477,820.90	627,921.55	0.29	6,198.48	104.53	
15,215.00	90.68	0.52	9,225.70	6,292.36 N	371.54 W	477,915.86	627,923.96	1.96	6,293.43	-93.68	
15,310.00	89.13	358.25	9,225.86	6,387.34 N	372.56 W	478,010.84	627,922.94	2.89	6,388.42	-124.32	
15,404.00	90.37	359.02	9,226.27	6,481.31 N	374.80 W	478,104.81	627,920.70	1.55	6,482.40	31.84	
15,499.00	89.75	358.42	9,226.17	6,576.29 N	376.93 W	478,199.79	627,918.57	0.91	6,577.38	-135.94	
15,594.00	91.05	358.65	9,225.51	6,671.25 N	379.35 W	478,294.75	627,916.15	1.39	6,672.35	10.03	
15,689.00	90.43	358.10	9,224.28	6,766.20 N	382.05 W	478,389.70	627,913.45	0.87	6,767.31	-138.42	
15,784.00	89.44	357.91	9,224.39	6,861.15 N	385.35 W	478,484.65	627,910.15	1.06	6,862.26	-169.14	
15,878.00	89.07	359.57	9,225.61	6,955.11 N	387.42 W	478,578.61	627,908.08	1.81	6,956.23	102.58	
15,973.00	88.82	1.29	9,227.36	7,050.09 N	386.71 W	478,673.59	627,908.79	1.83	7,051.21	98.29	
16,068.00	90.43	2.50	9,227.98	7,145.03 N	383.57 W	478,768.53	627,911.93	2.12	7,146.14	36.93	

Design Report for 204H - Final Surveys

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
16,163.00	91.11	2.43	9,226.71	7,239.93 N	379.48 W	478,863.43	627,916.02	0.72	7,241.03	-5.88	
16,258.00	89.57	1.65	9,226.14	7,334.87 N	376.10 W	478,958.37	627,919.40	1.82	7,335.95	-153.14	
16,353.00	90.00	0.94	9,226.50	7,429.84 N	373.95 W	479,053.34	627,921.55	0.87	7,430.92	-58.80	
16,448.00	91.42	2.02	9,225.32	7,524.80 N	371.50 W	479,148.30	627,924.00	1.88	7,525.87	37.25	
16,543.00	92.04	1.67	9,222.45	7,619.71 N	368.44 W	479,243.21	627,927.06	0.75	7,620.77	-29.43	
16,638.00	89.69	359.44	9,221.02	7,714.68 N	367.52 W	479,338.18	627,927.98	3.41	7,715.73	-136.48	
16,733.00	88.51	358.80	9,222.51	7,809.65 N	368.98 W	479,433.15	627,926.52	1.41	7,810.71	-151.53	
16,828.00	91.73	0.56	9,222.31	7,904.64 N	369.51 W	479,528.14	627,925.99	3.86	7,905.70	28.66	
16,922.00	91.49	359.34	9,219.67	7,998.60 N	369.59 W	479,622.10	627,925.91	1.32	7,999.66	-101.12	
17,018.00	89.26	358.00	9,219.04	8,094.56 N	371.82 W	479,718.06	627,923.68	2.71	8,095.63	-148.99	
17,113.00	89.51	357.94	9,220.06	8,189.49 N	375.19 W	479,812.99	627,920.31	0.27	8,190.57	-13.50	
17,206.00	88.82	357.34	9,221.42	8,282.40 N	379.02 W	479,905.90	627,916.48	0.98	8,283.49	-139.00	
17,301.00	90.80	357.93	9,221.73	8,377.32 N	382.94 W	480,000.82	627,912.56	2.17	8,378.42	16.59	
17,396.00	89.38	357.29	9,221.58	8,472.23 N	386.90 W	480,095.73	627,908.60	1.64	8,473.34	-155.74	
17,490.00	88.40	356.92	9,223.40	8,566.09 N	391.65 W	480,189.59	627,903.85	1.11	8,567.22	-159.32	
17,586.00	90.74	356.43	9,224.12	8,661.92 N	397.21 W	480,285.42	627,898.29	2.49	8,663.06	-11.83	
17,680.00	90.43	355.22	9,223.16	8,755.67 N	404.06 W	480,379.17	627,891.44	1.33	8,756.83	-104.36	
17,775.00	90.99	354.61	9,221.99	8,850.28 N	412.47 W	480,473.78	627,883.03	0.87	8,851.47	-47.44	
17,870.00	90.80	353.98	9,220.50	8,944.80 N	421.92 W	480,568.30	627,873.58	0.69	8,946.01	-106.78	
17,932.00	90.31	354.60	9,219.90	9,006.49 N	428.09 W	480,629.99	627,867.41	1.27	9,007.72	128.32	
18,027.00	90.49	359.42	9,219.24	9,101.33 N	433.04 W	480,724.83	627,862.46	5.08	9,102.58	87.85	
18,121.00	89.69	2.27	9,219.09	9,195.31 N	431.65 W	480,818.81	627,863.85	3.15	9,196.55	105.67	
18,216.00	88.95	3.08	9,220.22	9,290.20 N	427.22 W	480,913.70	627,868.28	1.15	9,291.43	132.42	
18,311.00	90.31	3.41	9,220.83	9,385.04 N	421.84 W	481,008.54	627,873.66	1.47	9,386.25	13.64	
18,406.00	89.57	2.90	9,220.93	9,479.90 N	416.61 W	481,103.40	627,878.89	0.95	9,481.09	-145.43	
18,501.00	89.13	2.43	9,222.01	9,574.79 N	412.20 W	481,198.29	627,883.30	0.68	9,575.97	-133.12	
18,596.00	90.06	3.65	9,222.68	9,669.65 N	407.16 W	481,293.15	627,888.34	1.61	9,670.81	52.69	
18,691.00	88.70	2.90	9,223.71	9,764.49 N	401.73 W	481,387.99	627,893.77	1.63	9,765.63	-151.13	
18,786.00	88.89	2.47	9,225.71	9,859.36 N	397.28 W	481,482.86	627,898.22	0.49	9,860.49	-66.16	
18,881.00	88.15	1.93	9,228.16	9,954.26 N	393.64 W	481,577.76	627,901.86	0.96	9,955.38	-143.90	
18,976.00	88.58	1.61	9,230.87	10,049.17 N	390.70 W	481,672.67	627,904.80	0.56	10,050.29	-36.65	
19,071.00	91.98	0.39	9,230.41	10,144.14 N	389.05 W	481,767.64	627,906.45	3.80	10,145.25	-19.74	
19,166.00	92.60	359.75	9,226.61	10,239.06 N	388.93 W	481,862.56	627,906.57	0.94	10,240.17	-45.87	
19,261.00	92.23	358.99	9,222.61	10,333.97 N	389.97 W	481,957.47	627,905.53	0.89	10,335.08	-115.96	
19,356.00	92.23	0.14	9,218.91	10,428.90 N	390.70 W	482,052.40	627,904.80	1.21	10,430.01	89.98	
19,451.00	92.23	0.59	9,215.21	10,523.82 N	390.09 W	482,147.32	627,905.41	0.47	10,524.93	89.99	
19,545.00	90.37	0.32	9,213.08	10,617.79 N	389.34 W	482,241.29	627,906.16	2.00	10,618.90	-171.74	

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Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
19,640.00	90.18	0.29	9,212.63	10,712.79 N	388.84 W	482,336.29	627,906.66	0.20	10,713.90	-171.03	
19,735.00	89.32	0.39	9,213.04	10,807.79 N	388.27 W	482,431.29	627,907.23	0.91	10,808.89	173.37	
19,830.00	89.32	0.49	9,214.17	10,902.78 N	387.55 W	482,526.28	627,907.95	0.11	10,903.88	90.00	
19,925.00	89.57	0.93	9,215.09	10,997.76 N	386.37 W	482,621.26	627,909.13	0.53	10,998.86	60.40	
20,020.00	90.18	1.34	9,215.30	11,092.74 N	384.49 W	482,716.24	627,911.01	0.77	11,093.84	33.91	
20,115.00	90.31	1.25	9,214.89	11,187.72 N	382.34 W	482,811.22	627,913.16	0.17	11,188.80	-34.69	
20,209.00	89.63	0.89	9,214.94	11,281.70 N	380.58 W	482,905.20	627,914.92	0.82	11,282.78	-152.10	
20,304.00	90.00	0.63	9,215.25	11,376.69 N	379.32 W	483,000.19	627,916.18	0.48	11,377.77	-35.10	
20,399.00	90.25	0.29	9,215.04	11,471.69 N	378.56 W	483,095.19	627,916.94	0.44	11,472.76	-53.67	
20,494.00	89.69	359.34	9,215.09	11,566.69 N	378.87 W	483,190.19	627,916.63	1.16	11,567.76	-120.52	
20,589.00	89.51	357.91	9,215.75	11,661.66 N	381.15 W	483,285.16	627,914.35	1.52	11,662.74	-97.18	
20,684.00	89.63	357.90	9,216.46	11,756.59 N	384.62 W	483,380.09	627,910.88	0.13	11,757.68	-4.76	
20,779.00	89.57	358.33	9,217.13	11,851.54 N	387.75 W	483,475.04	627,907.75	0.46	11,852.63	97.95	
20,874.00	89.44	359.25	9,217.95	11,946.51 N	389.75 W	483,570.01	627,905.75	0.98	11,947.61	98.05	
20,969.00	89.44	359.50	9,218.88	12,041.50 N	390.79 W	483,665.00	627,904.71	0.26	12,042.61	90.00	
21,063.00	90.25	0.53	9,219.13	12,135.50 N	390.76 W	483,759.00	627,904.74	1.39	12,136.60	51.82	
21,158.00	91.42	0.93	9,217.75	12,230.48 N	389.55 W	483,853.98	627,905.95	1.30	12,231.58	18.87	
21,253.00	92.04	359.74	9,214.88	12,325.43 N	389.00 W	483,948.93	627,906.50	1.41	12,326.53	-62.45	
21,348.00	91.23	359.08	9,212.17	12,420.39 N	389.98 W	484,043.89	627,905.52	1.10	12,421.49	-140.83	
21,443.00	90.49	358.91	9,210.74	12,515.36 N	391.64 W	484,138.86	627,903.86	0.80	12,516.47	-167.06	
21,538.00	90.43	358.06	9,209.98	12,610.32 N	394.15 W	484,233.82	627,901.35	0.90	12,611.44	-94.03	
21,633.00	90.93	358.02	9,208.85	12,705.26 N	397.40 W	484,328.76	627,898.10	0.53	12,706.38	-4.57	
21,727.00	90.37	358.29	9,207.79	12,799.20 N	400.43 W	484,422.70	627,895.07	0.66	12,800.34	154.26	
21,823.00	90.13	358.71	9,207.37	12,895.17 N	402.94 W	484,518.67	627,892.56	0.50	12,896.31	119.74	
21,918.00	91.23	0.39	9,206.24	12,990.16 N	403.69 W	484,613.66	627,891.81	2.11	12,991.30	56.78	
22,013.00	91.05	0.78	9,204.35	13,085.13 N	402.72 W	484,708.63	627,892.78	0.45	13,086.27	114.78	
22,108.00	88.39	359.01	9,204.81	13,180.12 N	402.89 W	484,803.62	627,892.61	3.36	13,181.26	-146.36	
22,203.00	88.15	358.78	9,207.68	13,275.06 N	404.72 W	484,898.56	627,890.78	0.35	13,276.20	-136.24	
22,297.00	87.71	359.67	9,211.08	13,368.99 N	405.99 W	484,992.49	627,889.51	1.06	13,370.13	116.34	
22,392.00	88.70	0.52	9,214.05	13,463.94 N	405.84 W	485,087.44	627,889.66	1.37	13,465.08	40.65	
22,487.00	90.31	359.44	9,214.87	13,558.93 N	405.87 W	485,182.43	627,889.63	2.04	13,560.07	-33.86	
22,582.00	90.31	2.81	9,214.36	13,653.90 N	404.00 W	485,277.40	627,891.50	3.55	13,655.03	89.99	
22,677.00	90.43	3.11	9,213.75	13,748.77 N	399.10 W	485,372.27	627,896.40	0.34	13,749.89	68.20	
22,771.00	90.56	2.48	9,212.93	13,842.65 N	394.51 W	485,466.15	627,900.99	0.68	13,843.76	-78.34	
22,866.00	91.30	1.76	9,211.39	13,937.57 N	391.00 W	485,561.07	627,904.50	1.09	13,938.67	-44.21	
22,961.00	91.05	0.25	9,209.44	14,032.53 N	389.34 W	485,656.03	627,906.16	1.61	14,033.63	-99.39	

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Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
23,056.00	90.87	359.03	9,207.85	14,127.52 N	389.93 W	485,751.02	627,905.57	1.30	14,128.61	-98.38	
23,151.00	91.79	357.76	9,205.65	14,222.45 N	392.59 W	485,845.95	627,902.91	1.65	14,223.55	-54.06	
23,246.00	90.74	356.47	9,203.55	14,317.30 N	397.37 W	485,940.80	627,898.13	1.75	14,318.42	-129.14	
23,340.00	88.57	356.13	9,204.12	14,411.10 N	403.44 W	486,034.60	627,892.06	2.34	14,412.24	-171.10	
23,436.00	88.82	0.68	9,206.30	14,507.01 N	406.11 W	486,130.51	627,889.39	4.75	14,508.16	86.91	
23,531.00	89.38	2.41	9,207.80	14,601.96 N	403.55 W	486,225.46	627,891.95	1.91	14,603.10	72.08	
23,626.00	90.87	1.44	9,207.59	14,696.91 N	400.36 W	486,320.41	627,895.14	1.87	14,698.03	-33.06	
23,721.00	91.67	0.47	9,205.48	14,791.87 N	398.77 W	486,415.37	627,896.73	1.32	14,792.99	-50.47	
23,815.00	90.68	359.53	9,203.55	14,885.85 N	398.77 W	486,509.35	627,896.73	1.45	14,886.96	-136.48	
23,911.00	89.63	359.25	9,203.29	14,981.84 N	399.80 W	486,605.34	627,895.70	1.13	14,982.96	-165.07	
24,006.00	89.51	359.28	9,204.01	15,076.83 N	401.01 W	486,700.33	627,894.49	0.13	15,077.95	165.96	
24,099.00	89.44	359.26	9,204.86	15,169.82 N	402.20 W	486,793.32	627,893.30	0.08	15,170.94	-164.06	
24,194.00	89.57	359.36	9,205.68	15,264.81 N	403.34 W	486,888.31	627,892.16	0.17	15,265.94	37.57	
24,288.00	91.36	0.23	9,204.92	15,358.80 N	403.68 W	486,982.30	627,891.82	2.12	15,359.93	25.92	
24,383.00	91.05	0.35	9,202.92	15,453.78 N	403.20 W	487,077.28	627,892.30	0.35	15,454.90	158.84	
24,478.00	91.18	0.61	9,201.07	15,548.75 N	402.40 W	487,172.25	627,893.10	0.31	15,549.88	63.43	
24,573.00	91.23	0.34	9,199.07	15,643.73 N	401.62 W	487,267.23	627,893.88	0.29	15,644.85	-79.50	
24,668.00	90.74	0.07	9,197.44	15,738.71 N	401.28 W	487,362.21	627,894.22	0.59	15,739.84	-151.15	
24,763.00	90.62	0.08	9,196.31	15,833.71 N	401.15 W	487,457.21	627,894.35	0.13	15,834.83	175.24	
24,857.00	88.27	358.80	9,197.22	15,927.69 N	402.07 W	487,551.19	627,893.43	2.85	15,928.81	-151.43	
24,952.00	88.82	358.76	9,199.64	16,022.64 N	404.09 W	487,646.14	627,891.41	0.58	16,023.77	-4.16	
25,047.00	87.96	358.67	9,202.30	16,117.58 N	406.22 W	487,741.08	627,889.28	0.91	16,118.71	-174.03	
25,142.00	88.89	0.03	9,204.92	16,212.53 N	407.30 W	487,836.03	627,888.20	1.73	16,213.67	55.64	
25,236.00	90.87	2.34	9,205.11	16,306.50 N	405.35 W	487,930.00	627,890.15	3.24	16,307.63	49.41	
25,331.00	91.23	1.78	9,203.37	16,401.42 N	401.94 W	488,024.92	627,893.56	0.70	16,402.54	-57.26	
25,399.00	90.80	0.94	9,202.17	16,469.39 N	400.33 W	488,092.89	627,895.17	1.39	16,470.51	-117.10	Last Halliburton MWD Survey
25,453.00	90.80	0.94	9,201.41	16,523.38 N	399.44 W	488,146.88	627,896.06	0.00	16,524.49	0.00	Projection To Bit

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,484.00	8,478.06	-19.31	-254.17	First Halliburton MWD Survey
25,399.00	9,202.17	16,469.39	-400.33	Last Halliburton MWD Survey
25,453.00	9,201.41	16,523.38	-399.44	Projection To Bit

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Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	Origin +E/-W (usft)	Start TVD (usft)
User	No Target (Freehand)	359.83	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
122.00	8,401.00	MWD (Surface & Intermediate)	2_MWD+IGRF
8,484.00	25,399.00	MWD (Curve & Lateral)	2_MWD+IFR1+MS
25,453.00	25,453.00	Projection To Bit	2_Blind

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	()	()	()	()	()	()	()		
- Shape	()	()	()	()	()	()	()		
()									

Directional Difficulty Index

Average Dogleg over Survey:	1.38 °/100usft	Maximum Dogleg over Survey:	18.22 °/100usft at 8,626.00 usft
Net Tortousity applicable to Plans:	0.91 °/100usft	Directional Difficulty Index:	7.213

Audit Info

North Reference Sheet for Nash Unit (Grid North) - 204H - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GL+KB 30' @ 3104.00usft (Akita 90). Northing and Easting are relative to 204H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33333333°, Longitude Origin:0.00000000°, Latitude Origin:0.00000000°

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99992794

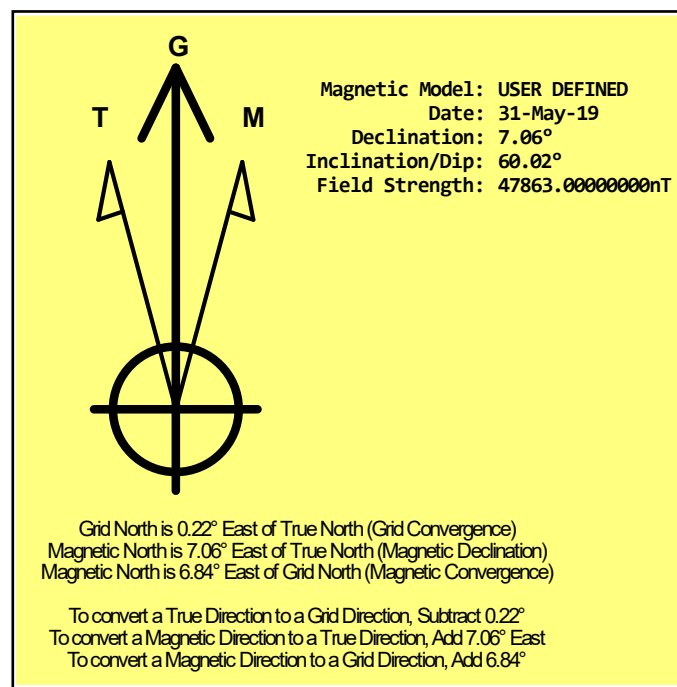
Grid Coordinates of Well: 471,623.50 usft N, 628,295.50 usft E

Geographical Coordinates of Well: 32° 17' 45.34" N, 103° 55' 05.28" W

Grid Convergence at Surface is: 0.22°

Based upon Minimum Curvature type calculations, at a Measured Depth of 25,453.00usft
the Bottom Hole Displacement is 16,528.21usft in the Direction of 358.62° (Grid).

Magnetic Convergence at surface is: -6.84° (31 May 2019, , User Defined)



Form 3160-4
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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. NMNM17056	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____				6. If Indian, Allottee or Tribe Name	
2. Name of Operator XTO ENERGY				8. Lease Name and Well No. NASH UNIT 204H	
3. Address 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707				9. API Well No. 30-015-45497	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 19 T23S R30E Mer NMP At surface NWNE 610FNL 1955FEL 32.296049 N Lat, 103.918624 W Lon Sec 18 T23S R30E Mer NMP At top prod interval reported below SWSE 127FSL 2295FEL 32.298077 N Lat, 103.919729 W Lon Sec 6 T23S R30E Mer NMP At total depth NWNE 11FNL 2302FEL 32.341474 N Lat, 103.919712 W Lon				10. Field and Pool, or Exploratory FORTY NINER RIDGE BONE SP	
14. Date Spudded 06/02/2019				15. Date T.D. Reached 07/08/2019	
16. Date Completed ☐ D & A ☒ Ready to Prod. 01/31/2019				17. Elevations (DF, KB, RT, GL)* 3074 GL	
18. Total Depth: MD TVD		25453 9201		19. Plug Back T.D.: MD TVD	
25453 9201		25450 9201		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) RC/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
24.000	18.625 J55	87.5	0	415		790	190	0	57
17.500	13.375 HCL80	68.0	0	3227		2520	780	0	317
12.250	9.625 HCL	40.0	0	9389		1880	774	0	40
8.500	5.500 HCP110	23.0	0	25453		4275	1119	5500	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	8555	8494						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7161	9201	9655 TO 25258	4.000	3748	ACTIVE/PRODUCING
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
9655 TO 25258	1,352,262 BBLS OF FLUID AND 38,693,357 LBS PROPPANT

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
02/01/2020	03/20/2020	24		1800.0	2783.0	3576.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. 500 SI	Csg. Press. 450.0	24 Hr. Rate	Oil BBL 1800	Gas MCF 2783	Water BBL 3576	Gas:Oil Ratio	Well Status	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 #508987 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

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):	31. Formation (Log) Markers
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.	

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
RUSTLER	40	430	ANHYDRITE	RUSTLER	40
TOP OF SALT	430	3070	SALT	TOP OF SALT	430
BASE OF SALT	3070	3441	SALT	BASE OF SALT	3070
DELAWARE	3441	7155	SANDSTONE; OIL/GAS	DELAWARE	3358
BONE SPRING	7155	9201	SANDSTONE; OIL/GAS	BONE SPRING	7161

32. Additional remarks (include plugging procedure):
 Drill 8.75 in hole to 17920.
 KOP 8515 ft.

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 #508987 Verified by the BLM Well Information System.
For XTO ENERGY, sent to the Carlsbad

Name (*please print*) MELANIE COLLINS Title REGULATORY ANALYST

Signature _____ (Electronic Submission) Date 03/30/2020

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.

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