

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 ResourcesForm C-104
Revised August 1, 2011Oil 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 ROAD BLDG 5 MIDLAND, TX 79707		² OGRID Number 373075
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 015-48156	⁵ Pool Name WC WILLIAMS SINK; BONE SPRING (OIL)	⁶ Pool Code 97650
⁷ Property Code 326062	⁸ Property Name BIG EDDY UNIT 30E REY	⁹ Well Number 103H

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
M	14	20S	31E		1265	South	405	West	EDDY

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
H	24	20S	31E		1551	North	2	East	Eddy
¹² Lse Code F	¹³ Producing Method Code P	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
16696	Oxy USA, Inc.	O
373073	XTO Permian Midstream	G/W

IV. Well Completion Data

²¹ Spud Date 10/13/21	²² Ready Date 5/7/22	²³ TD 21491 MD 9952 TVD	²⁴ PRTD 21469 MD 9952 TVD	²⁵ Perforations 11,052 TO 21,363	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375 K55 54.5#	822	715		
12.25	9.625 J55 40#	2,462	409		
8.75	7.625 HCL80 29.7#	4,120	340		
6.75	5.0 P110 18# 2 7/8 L80 6.5#	21,472 6,597	1,395		

V. Well Test Data

³¹ Date New Oil 5/8/22	³² Gas Delivery Date 5/15/22	³³ Test Date 5/15/22	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 1233	³⁶ Csg. Pressure 280
³⁷ Choke Size	³⁸ Oil 901	³⁹ Water 3274	⁴⁰ Gas 747		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:

*Amanda Thames*Printed name:
Amanda ThamesTitle:
Regulatory AnalystE-mail Address:
amanda.thames@exxonmobil.comDate:
6/8/2022Phone:
432.221.7340

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

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 30-015-48156	² Pool Code 97650	³ Pool Name WC WILLIAMS SINK; BONE SPRING
⁴ Property Code 326062	⁵ Property Name BIG EDDY UNIT 30E REY	⁶ Well Number 103H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,448'

¹⁰ Surface Location

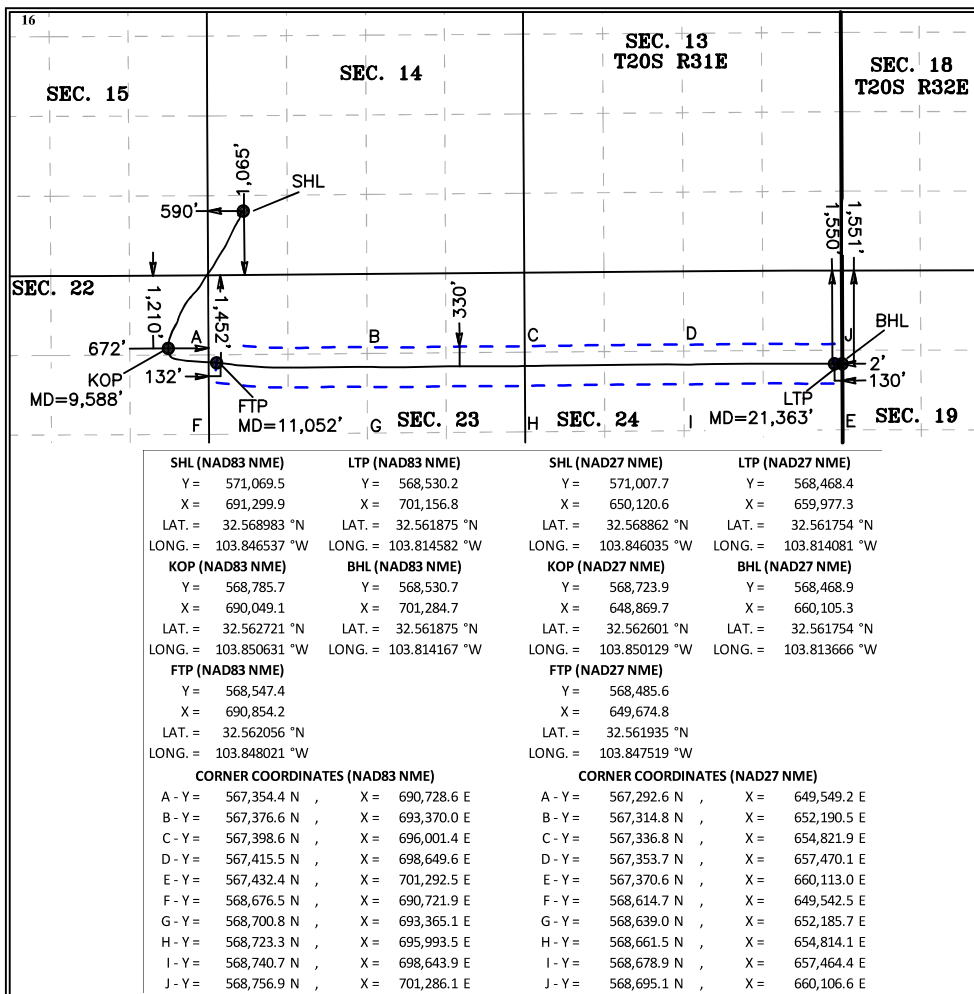
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	14	20 S	31 E		1,065	SOUTH	590	WEST	EDDY

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
H	24	20 S	31 E		1,551	NORTH	2	EAST	EDDY

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

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division. NOTE: AS-DRILLED BOTTOM HOLE PLOTTED FROM DATA FURNISHED BY XTO ENERGY.

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.

Amanda Thames 6/8/2022
Signature Date

Amanda Thames
Printed Name

amanda.thames@exxonmobil.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

5-16-2022

Date of Survey

Signature and Seal of
Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number

LS

2019030746



Intent ☐ As Drilled ☒

API # 30-015-48156		
Operator Name: XTO PERMIAN OPERATING, LLC.	Property Name: BIG EDDY UNIT 30E REY	Well Number 103H

Kick Off Point (KOP)

UL A	Section 22	Township 20S	Range 31E	Lot	Feet 1,210	From N/S FNL	Feet 672	From E/W FEL	County EDDY
Latitude 32.562721					Longitude 103.850631				NAD 83

First Take Point (FTP)

UL E	Section 23	Township 20S	Range 31E	Lot	Feet 1,452	From N/S FNL	Feet 132	From E/W FWL	County EDDY
Latitude 32.562056					Longitude 103.848021				NAD 83

Last Take Point (LTP)

UL H	Section 24	Township 20S	Range 31E	Lot	Feet 1,550	From N/S FNL	Feet 130	From E/W FEL	County EDDY
Latitude 32.561875					Longitude 103.814582				NAD 83

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

KZ 06/29/2018



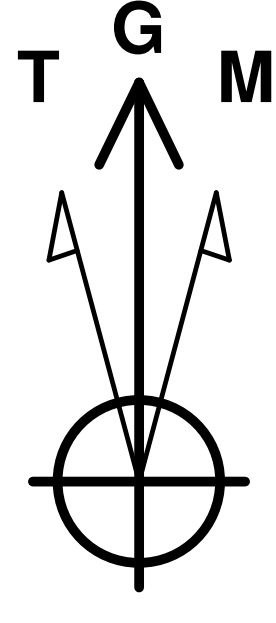
XTO Energy Inc.

3448 GL + 30 KB @ 3478.00usft (H&P 552)

GL: 3448.00

Project: Eddy County, NM (NAD27)
Site: Big Eddy Unit 30E
Well: Big Eddy Unit 30E Rey 103H
Wellbore: Wellbore #1
Design: Final Surveys

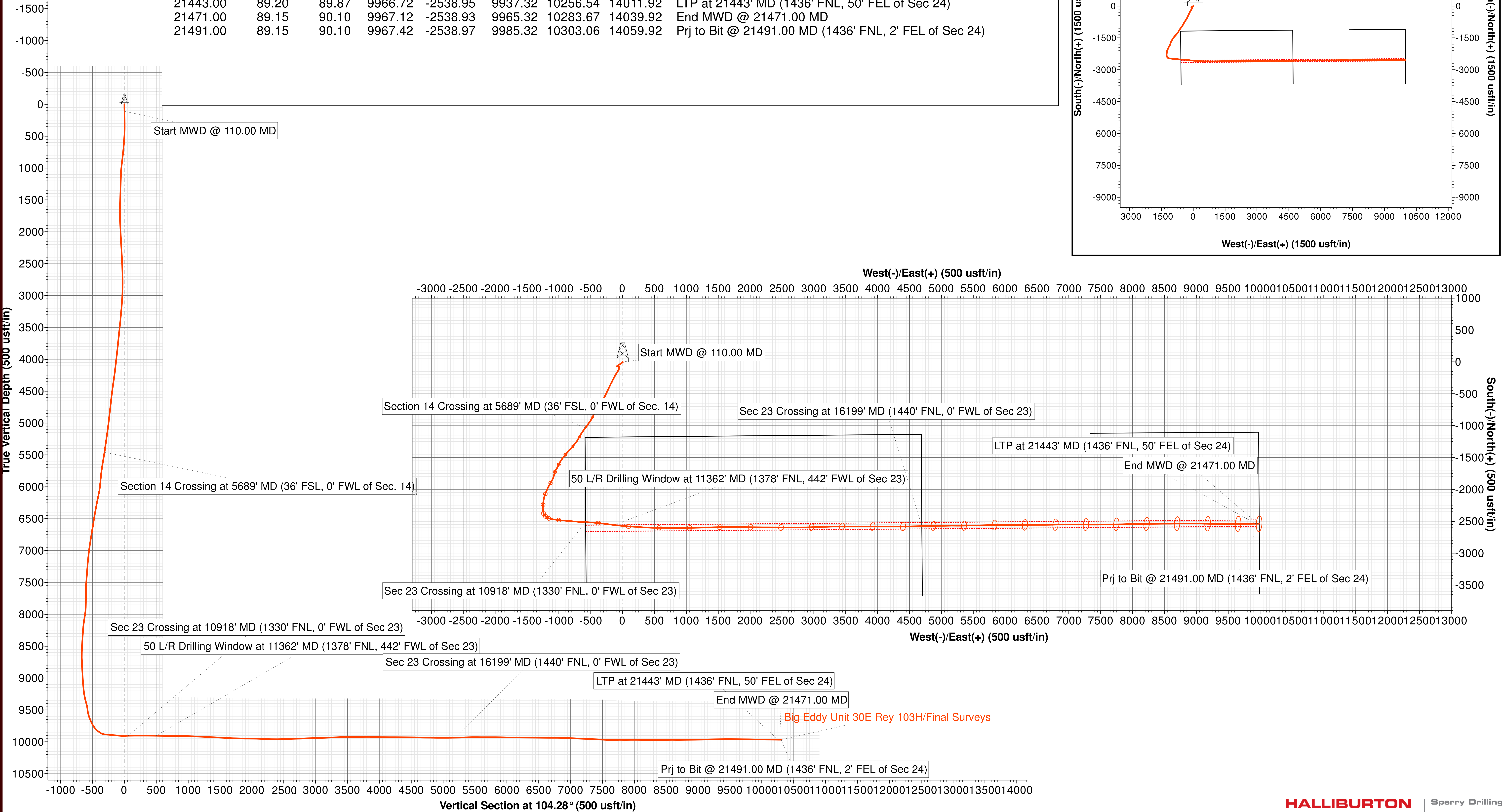
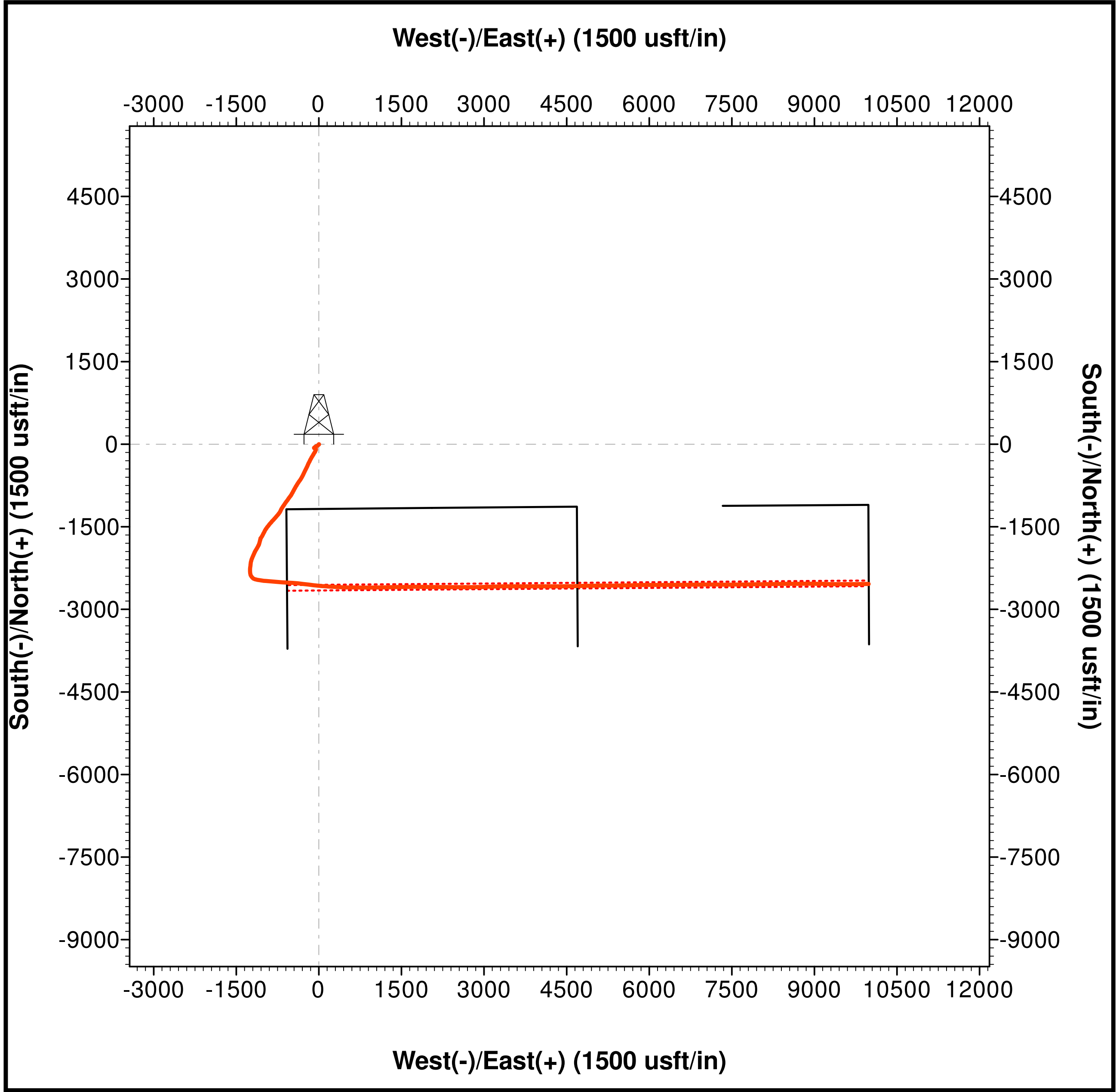
Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001



Azimuths to Grid North
True North: -0.26°
Magnetic North: 6.69°

Magnetic Field
Strength: 47748.3nT
Dip Angle: 60.30°
Date: 11/6/2021
Model: BGGM2021

WELL DETAILS								
GL: 3448.00								
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
	0.00	0.00	571007.700	650120.600	32° 34'	7.904727 N103° 50'	45.726133 W	
SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
110.00	1.03	117.15	109.99	-0.45	0.88	0.96	0.99	Start MWD @ 110.00 MD
5689.00	22.20	216.51	5457.52	-1034.96	-585.26	-311.89	1255.02	Section 14 Crossing at 5689' MD (36' FSL, 0' FWL of Sec. 14)
10918.00	91.80	91.92	9905.01	-2513.47	-579.48	58.40	3490.06	Sec 23 Crossing at 10918' MD (1330' FNL, 0' FWL of Sec 23)
11362.00	89.19	97.05	9904.84	-2557.38	-137.84	497.22	3934.02	50 L/R Drilling Window at 11362' MD (1378' FNL, 442' FWL of Sec 23)
16199.00	90.71	88.82	9935.50	-2576.33	4695.10	5185.51	8769.23	Sec 23 Crossing at 16199' MD (1440' FNL, 0' FWL of Sec 23)
21443.00	89.20	89.87	9966.72	-2538.95	9937.32	10256.54	14011.92	LTP at 21443' MD (1436' FNL, 50' FEL of Sec 24)
21471.00	89.15	90.10	9967.12	-2538.93	9965.32	10283.67	14039.92	End MWD @ 21471.00 MD
21491.00	89.15	90.10	9967.42	-2538.97	9985.32	10303.06	14059.92	Prj to Bit @ 21491.00 MD (1436' FNL, 2' FEL of Sec 24)



H&P 552

XTO Energy Inc.

Eddy County, NM (NAD27) Big Eddy Unit 30E

API#

Big Eddy Unit 30E Rey 103H

Wellbore #1

Design: Final Surveys

Sperry Drilling Services

Combo Report

14 December, 2021

Well Coordinates: 32° 34' 7.904727 N
103° 50' 45.726133 W

NAD 1927 (NADCON CONUS)
New Mexico East 3001
571,007.70 N
650,120.60 E

Ground Level: 3,448.00 usft

Geodetic Scale Factor Applied

Local Coordinate Origin:

Centered on Well Big Eddy Unit 30E Rey 103H

Viewing Datum:

3448 GL + 30 KB @ 3478.00usft (H&P 552)

TVDs to System:

N

North Reference:

Grid

Unit System:

Midcon (2 decimal)

Geodetic Scale Factor Applied

Compass Version: 5000.15 Build: 91E

Report Version: Midcon Combo v1.15

HALLIBURTON

HALLIBURTON

Eddy County, NM (NAD27)

Design Report for Big Eddy Unit 30E Rey 103H - 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)								
0.00	0.00	0.00	0.00	0.00 N	0.00 E	571,007.700	650,120.600	0.00	0.00	0.00	
110.00	1.03	117.15	109.99	0.45 S	0.88 E	571,007.249	650,121.480	0.94	0.96	117.15	Start MWD @ 110.00 MD
203.00	1.31	135.24	202.97	1.59 S	2.37 E	571,006.113	650,122.972	0.49	2.69	62.11	
295.00	1.31	164.53	294.95	3.35 S	3.39 E	571,004.352	650,123.993	0.72	4.11	104.64	
387.00	2.26	225.80	386.91	5.63 S	2.37 E	571,002.074	650,122.973	2.17	3.69	96.42	
479.00	4.06	233.91	478.77	8.81 S	1.56 W	570,998.891	650,119.041	2.01	0.66	18.02	
571.00	5.99	235.78	570.41	13.43 S	8.16 W	570,994.273	650,112.439	2.11	-4.60	5.78	
663.00	7.40	235.18	661.78	19.51 S	16.99 W	570,988.190	650,103.606	1.53	-11.66	-3.14	
755.00	8.75	236.67	752.87	26.74 S	27.71 W	570,980.963	650,092.896	1.48	-20.25	9.55	
847.00	9.68	238.74	843.68	34.60 S	40.16 W	570,973.104	650,080.438	1.07	-30.39	20.64	
939.00	9.89	237.02	934.34	42.91 S	53.40 W	570,964.790	650,067.199	0.39	-41.17	-55.16	
1,031.00	6.47	235.51	1,025.39	50.15 S	64.31 W	570,957.553	650,056.297	3.72	-49.95	-177.15	
1,123.00	3.29	230.09	1,117.05	54.78 S	70.61 W	570,952.923	650,049.998	3.49	-54.91	-174.44	
1,215.00	2.80	229.86	1,208.92	57.92 S	74.35 W	570,949.781	650,046.256	0.53	-57.76	-178.69	
1,306.00	2.43	236.72	1,299.82	60.41 S	77.66 W	570,947.289	650,042.944	0.53	-60.36	143.16	
1,398.00	2.41	233.72	1,391.74	62.63 S	80.85 W	570,945.075	650,039.754	0.14	-62.90	-100.47	
1,490.00	1.99	246.37	1,483.67	64.41 S	83.87 W	570,943.290	650,036.732	0.70	-65.39	137.06	
1,586.00	1.55	249.39	1,579.63	65.54 S	86.62 W	570,942.165	650,033.990	0.47	-67.77	169.54	
1,681.00	0.73	251.60	1,674.61	66.18 S	88.39 W	570,941.522	650,032.213	0.86	-69.34	178.04	
1,777.00	1.49	145.05	1,770.60	67.40 S	88.26 W	570,940.306	650,032.348	1.91	-68.91	-128.94	
1,873.00	2.31	119.90	1,866.54	69.39 S	85.87 W	570,938.318	650,034.740	1.20	-66.10	-58.51	
1,969.00	2.77	116.93	1,962.45	71.40 S	82.12 W	570,936.303	650,038.485	0.50	-61.97	-17.45	
2,065.00	2.90	107.66	2,058.33	73.19 S	77.74 W	570,934.516	650,042.867	0.50	-57.28	-78.83	
2,160.00	2.90	100.24	2,153.21	74.34 S	73.08 W	570,933.360	650,047.521	0.39	-52.49	-93.71	
2,256.00	3.12	104.86	2,249.08	75.45 S	68.17 W	570,932.258	650,052.436	0.34	-47.45	50.12	
2,352.00	2.83	99.17	2,344.95	76.49 S	63.30 W	570,931.211	650,057.300	0.43	-42.48	-137.30	
2,380.00	2.88	104.01	2,372.91	76.77 S	61.94 W	570,930.930	650,058.665	0.88	-41.09	80.71	
2,509.00	2.49	117.70	2,501.77	78.86 S	56.31 W	570,928.843	650,064.290	0.58	-35.12	128.02	
2,541.00	2.38	119.63	2,533.75	79.51 S	55.12 W	570,928.192	650,065.483	0.43	-33.80	144.26	
2,637.00	4.11	172.64	2,629.61	83.91 S	52.95 W	570,923.793	650,067.657	3.42	-30.61	88.33	
2,732.00	6.30	184.32	2,724.21	92.49 S	52.90 W	570,915.219	650,067.700	2.55	-28.46	31.72	
2,828.00	8.04	196.15	2,819.46	104.19 S	55.17 W	570,903.517	650,065.436	2.37	-27.76	46.29	
2,924.00	9.66	204.62	2,914.32	117.96 S	60.39 W	570,889.746	650,060.213	2.16	-29.43	43.05	
3,020.00	11.10	206.50	3,008.75	133.56 S	67.87 W	570,874.154	650,052.734	1.54	-32.83	14.16	
3,116.00	12.79	212.58	3,102.67	150.78 S	77.72 W	570,856.929	650,042.889	2.19	-38.12	39.67	
3,211.00	14.22	214.52	3,195.04	169.26 S	89.99 W	570,838.454	650,030.614	1.58	-45.46	18.52	

HALLIBURTON

Eddy County, NM (NAD27)

Design Report for Big Eddy Unit 30E Rey 103H - 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)								
3,307.00	17.77	209.81	3,287.31	191.69 S	103.96 W	570,816.022	650,016.645	3.93	-53.47	-22.36	
3,403.00	19.69	209.91	3,378.22	218.42 S	119.31 W	570,789.291	650,001.298	2.00	-61.75	1.01	
3,499.00	23.40	208.20	3,467.50	249.25 S	136.39 W	570,758.463	649,984.220	3.92	-70.69	-10.41	
3,595.00	24.91	207.31	3,555.09	284.02 S	154.67 W	570,723.699	649,965.936	1.62	-79.84	-13.97	
3,690.00	26.02	206.55	3,640.86	320.44 S	173.17 W	570,687.283	649,947.444	1.22	-88.78	-16.75	
3,785.00	27.41	205.54	3,725.72	358.81 S	191.91 W	570,648.914	649,928.702	1.54	-97.48	-18.54	
3,881.00	29.06	204.76	3,810.30	399.92 S	211.20 W	570,607.804	649,909.411	1.76	-106.03	-12.95	
3,977.00	28.67	206.30	3,894.37	441.74 S	231.17 W	570,565.990	649,889.444	0.87	-115.07	118.35	
4,068.00	29.64	205.86	3,973.84	481.56 S	250.66 W	570,526.173	649,869.958	1.09	-124.13	-12.65	
4,197.00	29.90	205.64	4,085.82	539.25 S	278.48 W	570,468.486	649,842.133	0.22	-136.87	-22.88	
4,292.00	26.35	206.74	4,169.58	579.44 S	298.22 W	570,428.300	649,822.396	3.78	-146.08	172.17	
4,388.00	24.38	213.05	4,256.34	615.08 S	318.62 W	570,392.658	649,802.000	3.48	-157.06	128.91	
4,480.00	23.84	213.73	4,340.32	646.46 S	339.30 W	570,361.282	649,781.321	0.66	-169.36	153.09	
4,576.00	22.17	213.35	4,428.68	677.73 S	360.03 W	570,330.016	649,760.591	1.75	-181.74	-175.09	
4,671.00	20.94	213.37	4,517.03	706.88 S	379.23 W	570,300.867	649,741.400	1.29	-193.15	179.67	
4,766.00	20.71	212.72	4,605.83	735.19 S	397.64 W	570,272.559	649,722.983	0.34	-204.01	-135.17	
4,862.00	20.60	209.56	4,695.66	764.16 S	415.15 W	570,243.588	649,705.477	1.17	-213.83	-97.11	
4,958.00	23.70	210.25	4,784.56	795.53 S	433.21 W	570,212.226	649,687.423	3.24	-223.60	5.12	
5,053.00	25.01	209.23	4,871.11	829.54 S	452.63 W	570,178.209	649,667.998	1.45	-234.03	-18.27	
5,149.00	26.50	205.87	4,957.57	866.53 S	471.89 W	570,141.227	649,648.743	2.17	-243.57	-45.94	
5,245.00	24.68	210.68	5,044.16	903.04 S	491.46 W	570,104.714	649,629.169	2.88	-253.53	133.37	
5,341.00	21.15	215.99	5,132.58	934.31 S	511.88 W	570,073.453	649,608.757	4.26	-265.60	152.07	
5,437.00	20.62	216.37	5,222.27	961.93 S	532.08 W	570,045.830	649,588.557	0.57	-278.37	165.84	
5,533.00	21.13	215.24	5,311.97	989.68 S	552.09 W	570,018.088	649,568.550	0.68	-290.91	-38.82	
5,629.00	20.64	216.73	5,401.67	1,017.37 S	572.19 W	569,990.397	649,548.448	0.75	-303.56	133.39	
5,689.00	22.20	216.51	5,457.52	1,034.96 S	585.26 W	569,972.812	649,535.381	2.60	-311.89	-3.07	Section 14 Crossing at 5689' MD (36' FSL, 0' FWL of Sec. 14)
5,725.00	23.13	216.39	5,490.74	1,046.11 S	593.50 W	569,961.655	649,527.141	2.60	-317.12	-2.87	
5,820.00	25.65	215.42	5,577.26	1,077.89 S	616.49 W	569,929.875	649,504.152	2.69	-331.57	-9.47	
5,916.00	25.08	213.82	5,664.00	1,111.73 S	639.86 W	569,896.041	649,480.787	0.93	-345.86	-130.47	
6,012.00	23.68	211.60	5,751.44	1,145.06 S	661.28 W	569,862.717	649,459.360	1.74	-358.41	-147.80	
6,107.00	21.57	208.63	5,839.13	1,176.64 S	679.65 W	569,831.138	649,440.995	2.53	-368.42	-152.93	
6,203.00	20.89	206.97	5,928.61	1,207.38 S	695.87 W	569,800.397	649,424.778	0.95	-376.55	-139.30	
6,299.00	23.88	210.46	6,017.37	1,239.39 S	713.48 W	569,768.386	649,407.162	3.41	-385.73	25.59	
6,395.00	25.90	221.05	6,104.49	1,271.98 S	737.12 W	569,735.807	649,383.530	5.09	-400.60	70.49	
6,491.00	24.55	220.17	6,191.34	1,303.03 S	763.75 W	569,704.757	649,356.896	1.46	-418.75	-164.87	
6,587.00	23.97	220.95	6,278.86	1,333.00 S	789.40 W	569,674.791	649,331.252	0.69	-436.21	151.43	

HALLIBURTON

Eddy County, NM (NAD27)

Design Report for Big Eddy Unit 30E Rey 103H - Final Surveys

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
6,682.00	21.57	221.07	6,366.45	1,360.74 S	813.52 W	569,647.048	649,307.130	2.53	-452.75	178.95	
6,778.00	20.07	222.72	6,456.18	1,386.15 S	836.29 W	569,621.643	649,284.362	1.68	-468.54	159.41	
6,874.00	18.19	222.17	6,546.88	1,409.36 S	857.53 W	569,598.435	649,263.127	1.97	-483.40	-174.78	
6,969.00	20.91	221.10	6,636.39	1,433.13 S	878.63 W	569,574.667	649,242.026	2.89	-497.99	-8.00	
7,065.00	19.81	220.71	6,726.39	1,458.37 S	900.50 W	569,549.427	649,220.155	1.15	-512.96	-173.15	
7,161.00	21.40	217.70	6,816.25	1,484.56 S	921.83 W	569,523.238	649,198.834	1.99	-527.16	-35.09	
7,257.00	23.55	215.34	6,904.95	1,514.06 S	943.63 W	569,493.734	649,177.028	2.43	-541.02	-23.86	
7,353.00	20.82	214.11	6,993.84	1,543.84 S	964.30 W	569,463.960	649,156.365	2.88	-553.70	-170.91	
7,449.00	24.19	208.71	7,082.53	1,575.23 S	983.32 W	569,432.573	649,137.343	4.11	-564.39	-34.04	
7,544.00	23.38	205.35	7,169.46	1,609.34 S	1,000.74 W	569,398.468	649,119.923	1.66	-572.86	-122.40	
7,640.00	19.59	207.44	7,258.77	1,640.85 S	1,016.32 W	569,366.961	649,104.346	4.03	-580.19	169.55	
7,736.00	16.33	207.20	7,350.08	1,667.14 S	1,029.91 W	569,340.669	649,090.758	3.40	-586.87	-178.81	
7,831.00	13.43	215.77	7,441.90	1,687.98 S	1,042.47 W	569,319.834	649,078.201	3.82	-593.90	146.89	
7,927.00	12.03	215.10	7,535.54	1,705.21 S	1,054.74 W	569,302.604	649,065.932	1.47	-601.54	-174.31	
8,023.00	16.10	191.70	7,628.71	1,726.45 S	1,063.20 W	569,281.360	649,057.471	7.20	-604.50	-66.16	
8,119.00	17.78	195.46	7,720.55	1,753.62 S	1,069.81 W	569,254.197	649,050.864	2.09	-604.20	34.92	
8,214.00	22.05	195.85	7,809.85	1,784.77 S	1,078.55 W	569,223.050	649,042.124	4.50	-604.99	1.97	
8,309.00	23.19	198.94	7,897.54	1,819.61 S	1,089.49 W	569,188.204	649,031.182	1.73	-607.00	47.63	
8,406.00	30.37	209.12	7,984.13	1,859.17 S	1,107.65 W	569,148.648	649,013.018	8.76	-614.84	37.21	
8,501.00	30.06	210.42	8,066.22	1,900.67 S	1,131.39 W	569,107.153	648,989.286	0.76	-627.61	115.91	
8,597.00	24.46	210.19	8,151.52	1,938.61 S	1,153.57 W	569,069.213	648,967.101	5.83	-639.75	-179.02	
8,693.00	20.26	204.70	8,240.30	1,970.91 S	1,170.52 W	569,036.917	648,950.153	4.88	-648.21	-156.08	
8,789.00	20.28	204.43	8,330.35	2,001.16 S	1,184.35 W	569,006.671	648,936.327	0.10	-654.15	-78.06	
8,884.00	23.46	202.06	8,418.50	2,033.68 S	1,198.27 W	568,974.148	648,922.413	3.47	-659.61	-16.62	
8,980.00	24.36	200.90	8,506.27	2,069.89 S	1,212.51 W	568,937.944	648,908.174	1.06	-664.48	-28.11	
9,075.00	20.53	199.86	8,594.05	2,103.87 S	1,225.16 W	568,903.962	648,895.521	4.05	-668.36	-174.56	
9,171.00	23.52	190.46	8,683.06	2,138.56 S	1,234.36 W	568,869.277	648,886.320	4.81	-668.72	-54.12	
9,266.00	21.94	187.70	8,770.69	2,174.79 S	1,240.18 W	568,833.047	648,880.501	2.01	-665.42	-147.25	
9,362.00	18.08	186.64	8,860.87	2,207.38 S	1,244.31 W	568,800.467	648,876.374	4.04	-661.39	-175.13	
9,458.00	20.86	185.65	8,951.38	2,239.19 S	1,247.71 W	568,768.657	648,872.968	2.92	-656.84	-7.24	
9,539.00	20.52	183.49	9,027.15	2,267.71 S	1,250.00 W	568,740.137	648,870.685	1.03	-652.02	-115.02	
9,578.00	19.24	184.63	9,063.83	2,280.94 S	1,250.93 W	568,726.910	648,869.750	3.43	-649.66	163.69	
9,675.00	15.36	175.99	9,156.44	2,309.70 S	1,251.32 W	568,698.151	648,869.358	4.79	-642.95	-150.56	
9,770.00	23.14	174.40	9,246.06	2,340.88 S	1,248.62 W	568,666.976	648,872.063	8.21	-632.64	-4.61	
9,866.00	25.43	160.96	9,333.62	2,379.17 S	1,240.05 W	568,628.687	648,880.635	6.22	-614.88	-73.72	
9,962.00	17.34	131.92	9,423.18	2,408.34 S	1,222.60 W	568,599.520	648,898.079	13.65	-590.78	-140.35	
9,984.00	13.29	132.92	9,444.40	2,412.25 S	1,218.31 W	568,595.606	648,902.372	18.45	-585.66	176.75	

HALLIBURTON

Eddy County, NM (NAD27)

Design Report for Big Eddy Unit 30E Rey 103H - 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 (°)	
10,010.00	8.55	143.32	9,469.92	2,415.84 S	1,214.96 W	568,592.019	648,905.717	19.67	-581.53	162.48	
10,043.00	8.88	150.53	9,502.54	2,420.02 S	1,212.24 W	568,587.834	648,908.435	3.46	-577.86	76.78	
10,074.00	12.67	139.77	9,532.99	2,424.70 S	1,208.87 W	568,583.154	648,911.809	13.79	-573.44	-33.32	
10,106.00	15.73	131.68	9,564.01	2,430.27 S	1,203.36 W	568,577.589	648,917.317	11.38	-566.73	-36.93	
10,151.00	20.10	122.20	9,606.83	2,438.45 S	1,192.25 W	568,569.407	648,928.423	11.65	-553.95	-38.30	
10,178.00	22.05	118.06	9,632.03	2,443.31 S	1,183.86 W	568,564.550	648,936.822	9.08	-544.61	-39.30	
10,201.00	22.98	113.93	9,653.27	2,447.16 S	1,175.94 W	568,560.698	648,944.736	7.97	-535.99	-61.46	
10,247.00	25.19	106.18	9,695.28	2,453.53 S	1,158.33 W	568,554.326	648,962.350	8.38	-517.34	-58.64	
10,280.00	29.10	105.73	9,724.64	2,457.67 S	1,143.85 W	568,550.192	648,976.823	11.86	-502.30	-3.21	
10,296.00	30.71	104.93	9,738.51	2,459.78 S	1,136.16 W	568,548.085	648,984.516	10.37	-494.32	-14.26	
10,335.00	34.10	102.66	9,771.43	2,464.74 S	1,115.86 W	568,543.122	649,004.810	9.23	-473.43	-20.70	
10,393.00	41.36	98.73	9,817.28	2,471.22 S	1,081.01 W	568,536.641	649,039.664	13.18	-438.05	-19.90	
10,489.00	70.45	96.15	9,870.52	2,481.09 S	1,002.99 W	568,526.768	649,117.673	30.38	-360.01	-4.99	
10,534.00	76.70	96.70	9,883.24	2,485.92 S	960.12 W	568,521.937	649,160.541	13.94	-317.28	4.91	
10,829.00	93.27	92.73	9,908.95	2,509.86 S	668.31 W	568,498.001	649,452.331	5.77	-28.58	-13.65	
10,918.00	91.80	91.92	9,905.01	2,513.47 S	579.48 W	568,494.391	649,541.161	1.88	58.40	-151.29	Sec 23 Crossing at 10918' MD (1330' FNL, 0' FWL of Sec 23)
10,924.00	91.70	91.87	9,904.83	2,513.67 S	573.48 W	568,494.193	649,547.155	1.88	64.26	-151.33	
11,020.00	90.36	94.74	9,903.10	2,519.20 S	477.67 W	568,488.659	649,642.961	3.30	158.48	115.00	
11,116.00	89.98	96.12	9,902.82	2,528.29 S	382.10 W	568,479.576	649,738.521	1.49	253.33	105.39	
11,212.00	89.64	96.87	9,903.14	2,539.15 S	286.72 W	568,468.718	649,833.898	0.86	348.45	114.39	
11,308.00	89.22	97.03	9,904.09	2,550.76 S	191.43 W	568,457.103	649,929.181	0.47	443.66	159.15	
11,362.00	89.19	97.05	9,904.84	2,557.38 S	137.84 W	568,450.484	649,982.765	0.08	497.22	146.31	50 L/R Drilling Window at 11362' MD (1378' FNL, 442' FWL of Sec 23)
11,403.00	89.16	97.07	9,905.43	2,562.42 S	97.16 W	568,445.445	650,023.447	0.08	537.89	146.31	
11,499.00	89.27	94.98	9,906.75	2,572.50 S	1.70 W	568,435.370	650,118.896	2.18	632.88	-87.00	
11,595.00	90.21	93.69	9,907.19	2,579.75 S	94.02 E	568,428.115	650,214.611	1.66	727.44	-53.92	
11,691.00	89.17	93.87	9,907.70	2,586.08 S	189.81 E	568,421.787	650,310.394	1.10	821.83	170.18	
11,786.00	89.33	93.92	9,908.95	2,592.53 S	284.58 E	568,415.334	650,405.160	0.18	915.26	17.35	
11,882.00	87.90	92.85	9,911.27	2,598.20 S	380.38 E	568,409.668	650,500.954	1.86	1,009.50	-143.21	
11,977.00	87.08	91.23	9,915.43	2,601.58 S	475.22 E	568,406.290	650,595.793	1.91	1,102.25	-116.90	
12,073.00	87.89	90.16	9,919.64	2,602.74 S	571.12 E	568,405.127	650,691.685	1.40	1,195.47	-52.87	
12,169.00	87.23	90.45	9,923.73	2,603.25 S	667.03 E	568,404.616	650,787.590	0.75	1,288.54	156.30	
12,265.00	87.58	90.63	9,928.08	2,604.16 S	762.93 E	568,403.712	650,883.480	0.41	1,381.70	27.20	
12,361.00	86.88	90.35	9,932.71	2,604.98 S	858.81 E	568,402.892	650,979.358	0.79	1,474.82	-158.23	
12,457.00	87.27	89.36	9,937.61	2,604.73 S	954.69 E	568,403.135	651,075.225	1.11	1,567.67	-68.50	
12,553.00	87.27	88.61	9,942.19	2,603.04 S	1,050.56 E	568,404.834	651,171.094	0.78	1,660.17	-90.02	

HALLIBURTON

Eddy County, NM (NAD27)

Design Report for Big Eddy Unit 30E Rey 103H - 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)				
12,648.00	88.53	89.30	9,945.67	2,601.30 S	1,145.48 E	568,406.565	651,266.006	1.51	1,751.73	28.70	
12,744.00	88.52	88.41	9,948.14	2,599.39 S	1,241.43 E	568,408.482	651,361.947	0.93	1,844.24	-90.66	
12,840.00	89.72	88.47	9,949.61	2,596.77 S	1,337.38 E	568,411.095	651,457.893	1.25	1,936.58	2.86	
12,936.00	89.21	88.81	9,950.51	2,594.50 S	1,433.35 E	568,413.373	651,553.855	0.64	2,029.02	146.31	
13,031.00	87.88	89.23	9,952.92	2,592.87 S	1,528.30 E	568,414.998	651,648.802	1.47	2,120.64	162.48	
13,127.00	88.24	89.20	9,956.17	2,591.56 S	1,624.24 E	568,416.312	651,744.731	0.38	2,213.29	-4.76	
13,222.00	88.93	90.48	9,958.52	2,591.29 S	1,719.20 E	568,416.577	651,839.693	1.53	2,305.25	61.68	
13,318.00	90.40	90.48	9,959.08	2,592.10 S	1,815.20 E	568,415.773	651,935.679	1.53	2,398.48	0.00	
13,414.00	91.72	89.91	9,957.30	2,592.42 S	1,911.18 E	568,415.446	652,031.653	1.50	2,491.57	-23.35	
13,509.00	91.48	90.86	9,954.65	2,593.06 S	2,006.14 E	568,414.808	652,126.607	1.03	2,583.76	104.17	
13,605.00	91.27	90.58	9,952.35	2,594.27 S	2,102.10 E	568,413.602	652,222.565	0.36	2,677.05	-126.87	
13,701.00	92.46	90.24	9,949.22	2,594.95 S	2,198.05 E	568,412.915	652,318.504	1.29	2,770.20	-15.93	
13,797.00	92.41	90.01	9,945.14	2,595.16 S	2,293.96 E	568,412.706	652,414.411	0.24	2,863.21	-102.27	
13,893.00	91.80	90.94	9,941.62	2,595.96 S	2,389.89 E	568,411.911	652,510.335	1.16	2,956.37	123.26	
13,989.00	90.95	90.88	9,939.31	2,597.48 S	2,485.85 E	568,410.387	652,606.288	0.89	3,049.74	-175.96	
14,084.00	92.00	89.93	9,936.87	2,598.15 S	2,580.81 E	568,409.715	652,701.245	1.49	3,141.93	-42.12	
14,180.00	92.24	90.08	9,933.32	2,598.16 S	2,676.75 E	568,409.707	652,797.173	0.29	3,234.91	31.99	
14,276.00	92.53	89.29	9,929.32	2,597.63 S	2,772.66 E	568,410.234	652,893.082	0.88	3,327.73	-69.81	
14,372.00	92.71	88.58	9,924.93	2,595.85 S	2,868.54 E	568,412.016	652,988.958	0.76	3,420.21	-75.74	
14,468.00	89.91	88.33	9,922.74	2,593.27 S	2,964.48 E	568,414.604	653,084.882	2.93	3,512.54	-174.90	
14,563.00	89.65	88.27	9,923.10	2,590.45 S	3,059.43 E	568,417.422	653,179.833	0.28	3,603.86	-167.01	
14,659.00	90.17	87.99	9,923.25	2,587.31 S	3,155.38 E	568,420.554	653,275.775	0.62	3,696.07	-28.30	
14,755.00	90.76	88.19	9,922.48	2,584.11 S	3,251.32 E	568,423.754	653,371.712	0.65	3,788.26	18.72	
14,850.00	88.88	90.44	9,922.77	2,582.98 S	3,346.31 E	568,424.889	653,466.688	3.09	3,880.03	129.88	
14,946.00	88.14	89.99	9,925.27	2,583.34 S	3,442.27 E	568,424.529	653,562.648	0.90	3,973.12	-148.71	
15,042.00	89.60	90.03	9,927.16	2,583.36 S	3,538.25 E	568,424.512	653,658.621	1.52	4,066.14	1.57	
15,138.00	89.47	89.37	9,927.94	2,582.85 S	3,634.25 E	568,425.015	653,754.609	0.70	4,159.04	-101.15	
15,233.00	89.95	89.97	9,928.42	2,582.31 S	3,729.24 E	568,425.562	653,849.600	0.81	4,250.97	51.34	
15,329.00	89.57	90.33	9,928.83	2,582.56 S	3,825.24 E	568,425.311	653,945.592	0.55	4,344.06	136.55	
15,425.00	89.50	89.36	9,929.60	2,582.30 S	3,921.24 E	568,425.570	654,041.581	1.01	4,437.03	-94.13	
15,520.00	89.51	90.43	9,930.43	2,582.12 S	4,016.23 E	568,425.745	654,136.570	1.13	4,529.05	89.47	
15,615.00	88.20	90.15	9,932.32	2,582.60 S	4,111.21 E	568,425.264	654,231.541	1.41	4,621.21	-167.94	
15,711.00	89.62	90.15	9,934.15	2,582.86 S	4,207.19 E	568,425.013	654,327.515	1.48	4,714.28	0.00	
15,807.00	88.88	89.99	9,935.41	2,582.97 S	4,303.18 E	568,424.895	654,423.499	0.79	4,807.34	-167.80	
15,903.00	89.58	88.76	9,936.70	2,581.93 S	4,399.16 E	568,425.942	654,519.476	1.47	4,900.10	-60.36	
15,998.00	90.07	89.17	9,936.99	2,580.21 S	4,494.15 E	568,427.658	654,614.454	0.67	4,991.72	39.92	

HALLIBURTON

Eddy County, NM (NAD27)

Design Report for Big Eddy Unit 30E Rey 103H - 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)				
16,094.00	90.49	88.81	9,936.52	2,578.52 S	4,590.13 E	568,429.350	654,710.431	0.58	5,084.32	-40.60	
16,190.00	90.60	88.80	9,935.60	2,576.52 S	4,686.10 E	568,431.352	654,806.400	0.12	5,176.84	-5.19	
16,199.00	90.71	88.82	9,935.50	2,576.33 S	4,695.10 E	568,431.539	654,815.396	1.21	5,185.51	10.52	Sec 23 Crossing at 16199' MD (1440' FNL, 0' FWL of Sec 23)
16,285.00	91.73	89.01	9,933.67	2,574.70 S	4,781.07 E	568,433.167	654,901.355	1.21	5,268.42	10.52	
16,380.00	92.67	88.98	9,930.03	2,573.04 S	4,875.98 E	568,434.832	654,996.263	0.99	5,359.99	-1.83	
16,476.00	91.36	89.15	9,926.65	2,571.47 S	4,971.91 E	568,436.397	655,092.182	1.38	5,452.56	172.61	
16,572.00	88.42	89.01	9,926.84	2,569.93 S	5,067.88 E	568,437.938	655,188.153	3.07	5,545.20	-177.27	
16,668.00	89.70	89.70	9,928.41	2,568.85 S	5,163.86 E	568,439.019	655,284.125	1.51	5,637.94	28.33	
16,764.00	91.22	90.65	9,927.64	2,569.14 S	5,259.85 E	568,438.726	655,380.112	1.87	5,731.04	32.00	
16,860.00	88.73	89.07	9,927.68	2,568.91 S	5,355.84 E	568,438.960	655,476.094	3.07	5,824.01	-147.60	
16,956.00	88.52	88.91	9,929.98	2,567.22 S	5,451.80 E	568,440.652	655,572.046	0.27	5,916.58	-142.71	
17,052.00	89.26	88.93	9,931.84	2,565.41 S	5,547.76 E	568,442.461	655,668.004	0.77	6,009.13	1.55	
17,148.00	89.60	88.60	9,932.80	2,563.34 S	5,643.74 E	568,444.530	655,763.970	0.49	6,101.63	-44.15	
17,244.00	89.78	88.85	9,933.32	2,561.20 S	5,739.71 E	568,446.666	655,859.938	0.32	6,194.11	54.25	
17,339.00	89.47	88.75	9,933.94	2,559.21 S	5,834.69 E	568,448.655	655,954.909	0.34	6,285.67	-162.12	
17,434.00	90.07	89.89	9,934.32	2,558.08 S	5,929.68 E	568,449.782	656,049.894	1.36	6,377.44	62.24	
17,530.00	89.09	90.02	9,935.03	2,558.01 S	6,025.68 E	568,449.858	656,145.884	1.03	6,470.45	172.44	
17,626.00	89.45	89.70	9,936.25	2,557.77 S	6,121.67 E	568,450.092	656,241.869	0.50	6,563.42	-41.63	
17,722.00	89.65	89.62	9,937.00	2,557.20 S	6,217.66 E	568,450.662	656,337.858	0.22	6,656.31	-21.80	
17,817.00	90.27	89.52	9,937.07	2,556.49 S	6,312.66 E	568,451.375	656,432.849	0.66	6,748.20	-9.16	
17,912.00	88.55	89.63	9,938.05	2,555.79 S	6,407.65 E	568,452.079	656,527.831	1.81	6,840.08	176.34	
18,008.00	88.70	89.64	9,940.35	2,555.18 S	6,503.62 E	568,452.691	656,623.795	0.16	6,932.93	3.81	
18,104.00	87.10	89.88	9,943.87	2,554.77 S	6,599.55 E	568,453.093	656,719.721	1.69	7,025.80	171.48	
18,200.00	86.88	89.20	9,948.91	2,554.00 S	6,695.41 E	568,453.862	656,815.578	0.74	7,118.51	-107.97	
18,296.00	88.67	89.34	9,952.64	2,552.78 S	6,791.33 E	568,455.084	656,911.488	1.87	7,211.16	4.47	
18,391.00	87.68	89.13	9,955.66	2,551.51 S	6,886.27 E	568,456.352	657,006.424	1.07	7,302.86	-168.03	
18,487.00	86.78	89.29	9,960.30	2,550.19 S	6,982.15 E	568,457.674	657,102.295	0.95	7,395.45	169.93	
18,582.00	87.27	90.01	9,965.23	2,549.61 S	7,077.02 E	568,458.253	657,197.158	0.92	7,487.24	55.75	
18,678.00	86.07	89.92	9,970.81	2,549.55 S	7,172.86 E	568,458.312	657,292.988	1.25	7,580.10	-175.72	
18,773.00	93.31	92.06	9,971.32	2,551.20 S	7,267.77 E	568,456.671	657,387.898	7.95	7,672.49	16.48	
18,869.00	89.59	90.01	9,968.89	2,552.93 S	7,363.70 E	568,454.939	657,483.823	4.42	7,765.88	-151.12	
18,962.00	90.00	89.22	9,969.23	2,552.30 S	7,456.70 E	568,455.564	657,576.814	0.96	7,855.85	-62.57	
19,058.00	90.51	88.92	9,968.80	2,550.74 S	7,552.68 E	568,457.122	657,672.793	0.62	7,948.49	-30.46	
19,154.00	89.69	89.02	9,968.63	2,549.02 S	7,648.67 E	568,458.848	657,768.771	0.86	8,041.08	173.05	
19,250.00	89.46	90.02	9,969.34	2,548.21 S	7,744.66 E	568,459.652	657,864.757	1.07	8,133.91	102.96	
19,345.00	89.85	88.79	9,969.91	2,547.23 S	7,839.65 E	568,460.638	657,959.742	1.36	8,225.72	-72.41	

HALLIBURTON

Eddy County, NM (NAD27)

Design Report for Big Eddy Unit 30E Rey 103H - 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)				
19,441.00	90.36	88.98	9,969.74	2,545.36 S	7,935.63 E	568,462.506	658,055.717	0.57	8,318.28	20.43	
19,536.00	89.95	89.09	9,969.48	2,543.76 S	8,030.62 E	568,464.106	658,150.697	0.45	8,409.93	164.98	
19,631.00	90.27	88.98	9,969.30	2,542.16 S	8,125.61 E	568,465.706	658,245.677	0.36	8,501.59	-18.97	
19,726.00	90.10	89.04	9,968.99	2,540.52 S	8,220.59 E	568,467.347	658,340.656	0.19	8,593.24	160.56	
19,822.00	89.73	89.71	9,969.14	2,539.47 S	8,316.58 E	568,468.394	658,436.643	0.80	8,686.01	118.91	
19,918.00	90.46	89.49	9,968.98	2,538.80 S	8,412.58 E	568,469.065	658,532.634	0.79	8,778.87	-16.77	
20,013.00	91.16	89.52	9,967.63	2,537.98 S	8,507.57 E	568,469.885	658,627.614	0.74	8,870.72	2.45	
20,109.00	90.07	89.62	9,966.60	2,537.26 S	8,603.56 E	568,470.606	658,723.598	1.14	8,963.57	174.76	
20,204.00	91.35	89.36	9,965.43	2,536.41 S	8,698.54 E	568,471.451	658,818.579	1.37	9,055.41	-11.48	
20,300.00	91.15	89.80	9,963.33	2,535.71 S	8,794.52 E	568,472.154	658,914.547	0.50	9,148.25	114.44	
20,396.00	91.32	89.98	9,961.26	2,535.53 S	8,890.50 E	568,472.339	659,010.518	0.26	9,241.21	46.63	
20,491.00	90.86	90.14	9,959.46	2,535.63 S	8,985.48 E	568,472.239	659,105.494	0.51	9,333.28	160.82	
20,587.00	90.78	91.18	9,958.08	2,536.73 S	9,081.46 E	568,471.134	659,201.470	1.09	9,426.57	94.39	
20,683.00	89.65	91.17	9,957.72	2,538.70 S	9,177.44 E	568,469.165	659,297.442	1.18	9,520.07	-179.49	
20,779.00	89.08	91.20	9,958.78	2,540.69 S	9,273.41 E	568,467.180	659,393.409	0.59	9,613.57	176.99	
20,874.00	89.24	90.83	9,960.18	2,542.37 S	9,368.39 E	568,465.498	659,488.377	0.42	9,706.02	-66.62	
20,969.00	89.34	89.76	9,961.35	2,542.86 S	9,463.38 E	568,465.008	659,583.361	1.13	9,798.20	-84.67	
21,065.00	89.07	89.18	9,962.69	2,541.97 S	9,559.36 E	568,465.896	659,679.341	0.67	9,891.00	-114.97	
21,161.00	90.02	89.91	9,963.45	2,541.21 S	9,655.36 E	568,466.659	659,775.327	1.25	9,983.84	37.54	
21,256.00	89.12	89.28	9,964.16	2,540.54 S	9,750.35 E	568,467.330	659,870.314	1.16	10,075.73	-145.01	
21,352.00	89.27	89.46	9,965.51	2,539.48 S	9,846.33 E	568,468.385	659,966.293	0.24	10,168.49	50.19	
21,443.00	89.20	89.87	9,966.72	2,538.95 S	9,937.32 E	568,468.919	660,057.277	0.45	10,256.54	99.25	LTP at 21443' MD (1436' FNL, 50' FEL of Sec 24)
21,448.00	89.20	89.89	9,966.79	2,538.94 S	9,942.32 E	568,468.930	660,062.276	0.45	10,261.38	99.24	
21,471.00	89.15	90.10	9,967.12	2,538.93 S	9,965.32 E	568,468.932	660,085.272	0.94	10,283.67	103.40	End MWD @ 21471.00 MD
21,491.00	89.15	90.10	9,967.42	2,538.97 S	9,985.32 E	568,468.897	660,105.269	0.00	10,303.06	0.00	Prj to Bit @ 21491.00 MD (1436' FNL, 2' FEL of Sec 24) - 4 1/2" Casing

HALLIBURTON**Design Report for Big Eddy Unit 30E Rey 103H - Final Surveys****Design Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
110.00	109.99	-0.45	0.88	Start MWD @ 110.00 MD
5,689.00	5,457.52	-1,034.96	-585.26	Section 14 Crossing at 5689' MD (36' FSL, 0' FWL of Sec. 14)
10,918.00	9,905.01	-2,513.47	-579.48	Sec 23 Crossing at 10918' MD (1330' FNL, 0' FWL of Sec 23)
11,362.00	9,904.84	-2,557.38	-137.84	50 L/R Drilling Window at 11362' MD (1378' FNL, 442' FWL of Sec 23)
16,199.00	9,935.50	-2,576.33	4,695.10	Sec 23 Crossing at 16199' MD (1440' FNL, 0' FWL of Sec 23)
21,443.00	9,966.72	-2,538.95	9,937.32	LTP at 21443' MD (1436' FNL, 50' FEL of Sec 24)
21,471.00	9,967.12	-2,538.93	9,965.32	End MWD @ 21471.00 MD
21,491.00	9,967.42	-2,538.97	9,985.32	Prj to Bit @ 21491.00 MD (1436' FNL, 2' FEL of Sec 24)

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (usft)
				+N/-S (usft)	+E/-W (usft)	
User	No Target (Freehand)	104.28	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
110.00	2,380.00	Surface	3_MWD+IFR1+MS
2,509.00	9,578.00	Intermediate	3_MWD+IFR1+MS
9,675.00	10,534.00	Curve	3_MWD+IFR1+MS
10,637.00	21,471.00	Lateral	3_MWD+IFR1+MS
21,491.00	21,491.00	Prj to TD	3_Blind

Casing Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
21,491.00	9,967.42	4 1/2" Casing	4-1/2	6

HALLIBURTON

Eddy County, NM (NAD27)

Design Report for Big Eddy Unit 30E Rey 103H - Final Surveys

Design Targets

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

Directional Difficulty Index

Average Dogleg over Survey:	2.11 °/100usft	Maximum Dogleg over Survey:	30.38 °/100usft at 10,489.00 usft
Net Tortousity applicable to Plans:	1.32 °/100usft	Directional Difficulty Index:	7.138

Audit Info

HALLIBURTON**North Reference Sheet for Big Eddy Unit 30E - Big Eddy Unit 30E Rey 103H - 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 3448 GL + 30 KB @ 3478.00usft (H&P 552). Northing and Easting are relative to Big Eddy Unit 30E Rey 103H

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° 19' 60.000000 W°, Longitude Origin:0° 0' 0.000000 E°, Latitude Origin:0° 0' 0.000000 N°

False Easting: 500,000.000usft, False Northing: 0.000usft, Scale Reduction: 0.99993490

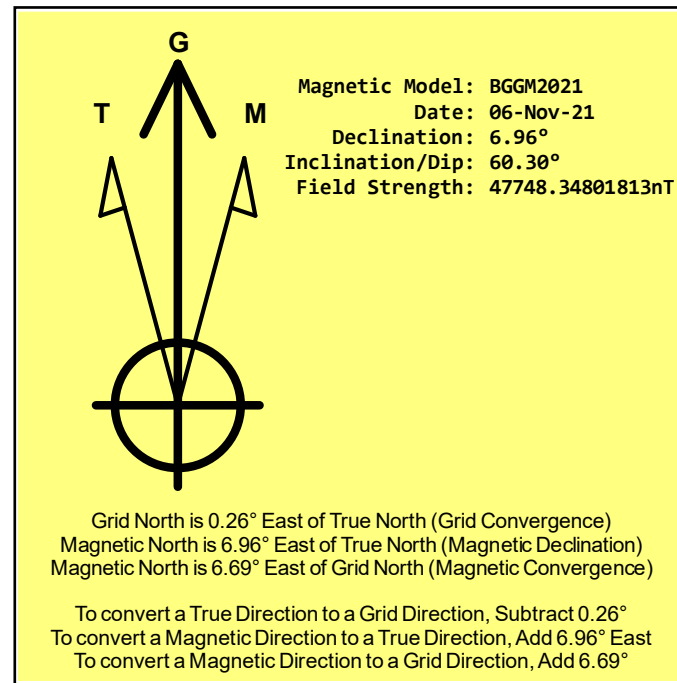
Grid Coordinates of Well: 571,007.700 usft N, 650,120.600 usft E

Geographical Coordinates of Well: 32° 34' 7.904727 N, 103° 50' 45.726133 W

Grid Convergence at Surface is: 0.26°

Based upon Minimum Curvature type calculations, at a Measured Depth of 21,491.00usft
the Bottom Hole Displacement is 10,303.06usft in the Direction of 104.27° (Grid).

Magnetic Convergence at surface is: -6.69° (6 November 2021, , BGGM2021)



Submit Copy To Appropriate District
Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-48156
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Big Eddy Unit 30E Rey
8. Well Number 103H
9. OGRID Number 373075
10. Pool name or Wildcat WC Williams Sink; Bone Spring (Oil)

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator XTO Permian Operating LLC	
3. Address of Operator 6401 Holiday Hill Rd Bldg 5 Midland, TX 79707	
4. Well Location Unit Letter <u>M</u> : <u>1265</u> feet from the <u>South</u> line and <u>405</u> feet from the <u>West</u> line Section <u>14</u> Township <u>20S</u> Range <u>31E</u> NMPM County <u>Eddy</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3448' GL	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: Completions Sundry ☒	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

XTO PERMIAN OPERATING LLC respectfully submits this sundry notice to report the completion operations of the referenced well.

KOP @ depth 9,588 ft.
PBDT = 21,469 ft. 12/29/21 Run RCB/GR/CCL
1/26/22 Pressure test 5 in csg to 8,433 psi for 30min test good, open sleeve.
3/17/22 Perf and frac 51 stages, 1,228 total shots, from 11,052 to 21,363 using 520,185 bbls of fluid and 25,285,129 lbs Proppant. Tag and drill out plugs.
4/23/22 Run 2-7/8 L80 6.5# tubing set at 6,597 ft.
Ready Date: 5/7/22
First Production: 5/8/22

Spud Date:

10/13/2021

Rig Release Date:

12/10/2021

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Amanda Thames TITLE Regulatory Analyst DATE 6/8/2022

Type or print name Amanda Thames E-mail address: amanda.thames@exxonmobil.com PHONE: 432.221.7340

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies 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 and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name BIG EDDY UNIT 30E REY		
								6. Well Number: 103H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator XTO PERMIAN OPERATING LLC.						9. OGRID 373075				
10. Address of Operator 6401 HOLIDAY HILL RD BLDG #5, MIDLAND TX 79707						11. Pool name or Wildcat WC WILLIAMS SINK; BONE SPRING (OIL)				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	M	14	20S	31E		1265	South	405	West	Eddy
BH:	H	24	20S	31E		1551	North	2	East	Eddy
13. Date Spudded 10/13/2021	14. Date T.D. Reached 12/7/2021		15. Date Rig Released 12/10/2021		16. Date Completed (Ready to Produce) 5/7/2022			17. Elevations (DF and RKB, RT, GR, etc.) 3448' GL		
18. Total Measured Depth of Well 21,491			19. Plug Back Measured Depth 21,469		20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run CBL		
22. Producing Interval(s), of this completion - Top, Bottom, Name 11,052 TO 21,363 WC WILLIAMS SINK; BONE SPRING (OIL)										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13 3/8"		54.5		822'		17 1/2"		715		
9 5/8"		47.0		2,462'		12 1/4"		409		
7 5/8"		29.7		4,120'		8 3/4"		340		
5"		18.0		21,472'		6 3/4"		1,395		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET	
						2 7/8"	6,597			
26. Perforation record (interval, size, and number) 11,052 TO 21,363, 4spf, 1,228 Total Shots 51 stages						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						11,052 TO 21,363		520,185 bbl fluid + 25,285,129 lbs Proppant		
28. PRODUCTION										
Date First Production 5/8/22		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Pumping				Well Status (<i>Prod. or Shut-in</i>) Producing				
Date of Test 5/15/22	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 901	Gas - MCF 747	Water - Bbl. 3274	Gas - Oil Ratio 829			
Flow Tubing Press. 1233	Casing Pressure 280	Calculated 24-Hour Rate	Oil - Bbl. 901	Gas - MCF 747	Water - Bbl. 3274	Oil Gravity - API - (<i>Corr.</i>)				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) Sold							30. Test Witnessed By			
31. List Attachments C-104 NW, C-102 & Supplement , Directional Survey (Log uploaded to NMOCD)										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:			
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude			Longitude			NAD83				
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature <i>Amanda Thames</i>			Printed Name Amanda Thames			Title Regulatory Analyst			Date 6/8/2022	
E-mail Address amanda.thames@exxonmobil.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt 964'	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 2,315'	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand 3,918'	T. Morrison	
T. Drinkard	T. Bone Springs 7,372'	T. Todilto	
T. Abo	T. Rustler 690	T. Entrada	
T. Wolfcamp	T. 1st Bone Spring 8,578'	T. Wingate	
T. Penn	T. 2nd Bone Spring 9,168'	T. Chinle	
T. Cisco (Bough C)	T. 3rd Bone Spring 9,698'	T. Permian	

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

[illegible]

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 117238

ACKNOWLEDGMENTS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 117238
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 117238

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 117238
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	9/3/2025