

TITUS

OIL GAS LLC

RECEIVED

JUN 03 2019

DISTRICT II-ARTESIA O.C.D.

Titus Oil & Gas Production, LLC

Eddy County, NM (NAD83-NME)

A01 Todd DSU

Todd 2-24S-31E State 203H - Slot 203H

203H

Plan: Plan #1-Rev0

Standard Planning Report

31 May, 2019

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Todd 2-24S-31E State 203H - Slot 203H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	3507+25 @ 3532.00usft
Project:	Eddy County, NM (NAD83-NME)	MD Reference:	3507+25 @ 3532.00usft
Site:	A01 Todd DSU	North Reference:	Grid
Well:	Todd 2-24S-31E State 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	203H		
Design:	Plan #1-Rev0		

Project	Eddy County, NM (NAD83-NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	A01 Todd DSU		
Site Position:	Map	Northing:	451,484.10 usft
From:		Easting:	722,093.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Grid Convergence:	0.31 °

Well	Todd 2-24S-31E State 203H - Slot 203H		
Well Position	+N/-S	0.70 usft	Northing:
	+E/-W	61.10 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Ground Level:	3,507.00 usft

Wellbore	203H		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	5/30/2019	6.83
			Dip Angle
			(°)
			Field Strength
			(nT)
			47,727.90015697

Design	Plan #1-Rev0		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			8.13

Plan Survey Tool Program	Date	5/31/2019
Depth From	Depth To	
(usft)	(usft)	
Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,246.27
Plan #1-Rev0 (203H)	MWD	
	MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,890.25	5.85	105.07	1,889.58	-5.18	19.23	1.50	1.50	0.00	105.07	
9,048.43	5.85	105.07	9,010.42	-194.94	724.21	0.00	0.00	0.00	0.00	
9,438.68	0.00	0.00	9,400.00	-200.12	743.44	1.50	-1.50	0.00	180.00	A01N02-EON (203H)
9,754.04	0.00	0.00	9,715.36	-200.12	743.44	0.00	0.00	0.00	0.00	
10,507.21	90.38	359.71	10,192.81	280.50	740.99	12.00	12.00	-0.04	359.71	
15,246.27	90.38	359.71	10,161.44	5,019.40	716.80	0.00	0.00	0.00	0.00	A01N02-PBHL (203H)

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Todd 2-24S-31E State 203H - Slot 203H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	3507+25 @ 3532.00usft
Project:	Eddy County, NM (NAD83-NME)	MD Reference:	3507+25 @ 3532.00usft
Site:	A01 Todd DSU	North Reference:	Grid
Well:	Todd 2-24S-31E State 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	203H		
Design:	Plan #1-Rev0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	1.50	105.07	1,599.99	-0.34	1.26	-0.16	1.50	1.50	0.00
1,700.00	3.00	105.07	1,699.91	-1.36	5.05	-0.63	1.50	1.50	0.00
1,800.00	4.50	105.07	1,799.69	-3.06	11.37	-1.42	1.50	1.50	0.00
1,890.25	5.85	105.07	1,889.58	-5.18	19.23	-2.41	1.50	1.50	0.00
1,900.00	5.85	105.07	1,899.27	-5.44	20.19	-2.53	0.00	0.00	0.00
2,000.00	5.85	105.07	1,998.75	-8.09	30.04	-3.76	0.00	0.00	0.00
2,100.00	5.85	105.07	2,098.23	-10.74	39.89	-4.99	0.00	0.00	0.00
2,200.00	5.85	105.07	2,197.71	-13.39	49.74	-6.22	0.00	0.00	0.00
2,300.00	5.85	105.07	2,297.18	-16.04	59.59	-7.45	0.00	0.00	0.00
2,400.00	5.85	105.07	2,396.66	-18.69	69.44	-8.69	0.00	0.00	0.00
2,500.00	5.85	105.07	2,496.14	-21.34	79.28	-9.92	0.00	0.00	0.00
2,600.00	5.85	105.07	2,595.62	-23.99	89.13	-11.15	0.00	0.00	0.00
2,700.00	5.85	105.07	2,695.10	-26.64	98.98	-12.38	0.00	0.00	0.00
2,800.00	5.85	105.07	2,794.58	-29.29	108.83	-13.62	0.00	0.00	0.00
2,900.00	5.85	105.07	2,894.06	-31.95	118.68	-14.85	0.00	0.00	0.00
3,000.00	5.85	105.07	2,993.53	-34.60	128.53	-16.08	0.00	0.00	0.00
3,100.00	5.85	105.07	3,093.01	-37.25	138.38	-17.31	0.00	0.00	0.00
3,200.00	5.85	105.07	3,192.49	-39.90	148.22	-18.54	0.00	0.00	0.00
3,300.00	5.85	105.07	3,291.97	-42.55	158.07	-19.78	0.00	0.00	0.00
3,400.00	5.85	105.07	3,391.45	-45.20	167.92	-21.01	0.00	0.00	0.00
3,500.00	5.85	105.07	3,490.93	-47.85	177.77	-22.24	0.00	0.00	0.00
3,600.00	5.85	105.07	3,590.41	-50.50	187.62	-23.47	0.00	0.00	0.00
3,700.00	5.85	105.07	3,689.88	-53.15	197.47	-24.70	0.00	0.00	0.00
3,800.00	5.85	105.07	3,789.36	-55.81	207.31	-25.94	0.00	0.00	0.00
3,900.00	5.85	105.07	3,888.84	-58.46	217.16	-27.17	0.00	0.00	0.00
4,000.00	5.85	105.07	3,988.32	-61.11	227.01	-28.40	0.00	0.00	0.00
4,100.00	5.85	105.07	4,087.80	-63.76	236.86	-29.63	0.00	0.00	0.00
4,200.00	5.85	105.07	4,187.28	-66.41	246.71	-30.86	0.00	0.00	0.00
4,300.00	5.85	105.07	4,286.76	-69.06	256.56	-32.10	0.00	0.00	0.00
4,400.00	5.85	105.07	4,386.23	-71.71	266.41	-33.33	0.00	0.00	0.00
4,500.00	5.85	105.07	4,485.71	-74.36	276.25	-34.56	0.00	0.00	0.00
4,600.00	5.85	105.07	4,585.19	-77.01	286.10	-35.79	0.00	0.00	0.00
4,700.00	5.85	105.07	4,684.67	-79.66	295.95	-37.03	0.00	0.00	0.00
4,800.00	5.85	105.07	4,784.15	-82.32	305.80	-38.26	0.00	0.00	0.00
4,900.00	5.85	105.07	4,883.63	-84.97	315.65	-39.49	0.00	0.00	0.00
5,000.00	5.85	105.07	4,983.11	-87.62	325.50	-40.72	0.00	0.00	0.00
5,100.00	5.85	105.07	5,082.58	-90.27	335.35	-41.95	0.00	0.00	0.00
5,200.00	5.85	105.07	5,182.06	-92.92	345.19	-43.19	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Todd 2-24S-31E State 203H - Slot 203H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	3507+25 @ 3532.00usft
Project:	Eddy County, NM (NAD83-NME)	MD Reference:	3507+25 @ 3532.00usft
Site:	A01 Todd DSU	North Reference:	Grid
Well:	Todd 2-24S-31E State 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	203H		
Design:	Plan #1-Rev0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	5.85	105.07	5,281.54	-95.57	355.04	-44.42	0.00	0.00	0.00
5,400.00	5.85	105.07	5,381.02	-98.22	364.89	-45.65	0.00	0.00	0.00
5,500.00	5.85	105.07	5,480.50	-100.87	374.74	-46.88	0.00	0.00	0.00
5,600.00	5.85	105.07	5,579.98	-103.52	384.59	-48.11	0.00	0.00	0.00
5,700.00	5.85	105.07	5,679.46	-106.17	394.44	-49.35	0.00	0.00	0.00
5,800.00	5.85	105.07	5,778.93	-108.83	404.28	-50.58	0.00	0.00	0.00
5,900.00	5.85	105.07	5,878.41	-111.48	414.13	-51.81	0.00	0.00	0.00
6,000.00	5.85	105.07	5,977.89	-114.13	423.98	-53.04	0.00	0.00	0.00
6,100.00	5.85	105.07	6,077.37	-116.78	433.83	-54.27	0.00	0.00	0.00
6,200.00	5.85	105.07	6,176.85	-119.43	443.68	-55.51	0.00	0.00	0.00
6,300.00	5.85	105.07	6,276.33	-122.08	453.53	-56.74	0.00	0.00	0.00
6,400.00	5.85	105.07	6,375.80	-124.73	463.38	-57.97	0.00	0.00	0.00
6,500.00	5.85	105.07	6,475.28	-127.38	473.22	-59.20	0.00	0.00	0.00
6,600.00	5.85	105.07	6,574.76	-130.03	483.07	-60.44	0.00	0.00	0.00
6,700.00	5.85	105.07	6,674.24	-132.69	492.92	-61.67	0.00	0.00	0.00
6,800.00	5.85	105.07	6,773.72	-135.34	502.77	-62.90	0.00	0.00	0.00
6,900.00	5.85	105.07	6,873.20	-137.99	512.62	-64.13	0.00	0.00	0.00
7,000.00	5.85	105.07	6,972.68	-140.64	522.47	-65.36	0.00	0.00	0.00
7,100.00	5.85	105.07	7,072.15	-143.29	532.32	-66.60	0.00	0.00	0.00
7,200.00	5.85	105.07	7,171.63	-145.94	542.16	-67.83	0.00	0.00	0.00
7,300.00	5.85	105.07	7,271.11	-148.59	552.01	-69.06	0.00	0.00	0.00
7,400.00	5.85	105.07	7,370.59	-151.24	561.86	-70.29	0.00	0.00	0.00
7,500.00	5.85	105.07	7,470.07	-153.89	571.71	-71.52	0.00	0.00	0.00
7,600.00	5.85	105.07	7,569.55	-156.54	581.56	-72.76	0.00	0.00	0.00
7,700.00	5.85	105.07	7,669.03	-159.20	591.41	-73.99	0.00	0.00	0.00
7,800.00	5.85	105.07	7,768.50	-161.85	601.25	-75.22	0.00	0.00	0.00
7,900.00	5.85	105.07	7,867.98	-164.50	611.10	-76.45	0.00	0.00	0.00
8,000.00	5.85	105.07	7,967.46	-167.15	620.95	-77.68	0.00	0.00	0.00
8,100.00	5.85	105.07	8,066.94	-169.80	630.80	-78.92	0.00	0.00	0.00
8,200.00	5.85	105.07	8,166.42	-172.45	640.65	-80.15	0.00	0.00	0.00
8,300.00	5.85	105.07	8,265.90	-175.10	650.50	-81.38	0.00	0.00	0.00
8,400.00	5.85	105.07	8,365.38	-177.75	660.35	-82.61	0.00	0.00	0.00
8,500.00	5.85	105.07	8,464.85	-180.40	670.19	-83.85	0.00	0.00	0.00
8,600.00	5.85	105.07	8,564.33	-183.05	680.04	-85.08	0.00	0.00	0.00
8,700.00	5.85	105.07	8,663.81	-185.71	689.89	-86.31	0.00	0.00	0.00
8,800.00	5.85	105.07	8,763.29	-188.36	699.74	-87.54	0.00	0.00	0.00
8,900.00	5.85	105.07	8,862.77	-191.01	709.59	-88.77	0.00	0.00	0.00
9,000.00	5.85	105.07	8,962.25	-193.66	719.44	-90.01	0.00	0.00	0.00
9,048.43	5.85	105.07	9,010.42	-194.94	724.21	-90.60	0.00	0.00	0.00
9,100.00	5.08	105.07	9,061.76	-196.22	728.95	-91.20	1.50	-1.50	0.00
9,200.00	3.58	105.07	9,161.47	-198.18	736.24	-92.11	1.50	-1.50	0.00
9,300.00	2.08	105.07	9,261.35	-199.47	741.01	-92.70	1.50	-1.50	0.00
9,400.00	0.58	105.07	9,361.32	-200.07	743.25	-92.99	1.50	-1.50	0.00
9,438.68	0.00	0.00	9,400.00	-200.12	743.44	-93.01	1.50	-1.50	0.00
A01N02-EON (203H)									
9,500.00	0.00	0.00	9,461.32	-200.12	743.44	-93.01	0.00	0.00	0.00
9,600.00	0.00	0.00	9,561.32	-200.12	743.44	-93.01	0.00	0.00	0.00
9,700.00	0.00	0.00	9,661.32	-200.12	743.44	-93.01	0.00	0.00	0.00
9,754.04	0.00	0.00	9,715.36	-200.12	743.44	-93.01	0.00	0.00	0.00
KOP: 9754.04' MD, 9715.36' TVD									
9,775.00	2.51	359.71	9,736.31	-199.66	743.44	-92.55	12.00	12.00	0.00
9,800.00	5.51	359.71	9,761.24	-197.91	743.43	-90.82	12.00	12.00	0.00
9,825.00	8.51	359.71	9,786.05	-194.86	743.41	-87.80	12.00	12.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Todd 2-24S-31E State 203H - Slot 203H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	3507+25 @ 3532.00usft
Project:	Eddy County, NM (NAD83-NME)	MD Reference:	3507+25 @ 3532.00usft
Site:	A01 Todd DSU	North Reference:	Grid
Well:	Todd 2-24S-31E State 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	203H		
Design:	Plan #1-Rev0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,850.00	11.51	359.71	9,810.67	-190.51	743.39	-83.50	12.00	12.00	0.00
9,875.00	14.51	359.71	9,835.03	-184.88	743.36	-77.93	12.00	12.00	0.00
9,900.00	17.51	359.71	9,859.05	-177.98	743.33	-71.11	12.00	12.00	0.00
9,925.00	20.51	359.71	9,882.69	-169.84	743.29	-63.06	12.00	12.00	0.00
9,950.00	23.51	359.71	9,905.86	-160.47	743.24	-53.79	12.00	12.00	0.00
9,975.00	26.51	359.71	9,928.51	-149.90	743.18	-43.33	12.00	12.00	0.00
10,000.00	29.51	359.71	9,950.58	-138.16	743.12	-31.72	12.00	12.00	0.00
10,025.00	32.51	359.71	9,972.00	-125.28	743.06	-18.97	12.00	12.00	0.00
10,050.00	35.51	359.71	9,992.72	-111.30	742.99	-5.14	12.00	12.00	0.00
10,075.00	38.51	359.71	10,012.68	-96.25	742.91	9.74	12.00	12.00	0.00
10,100.00	41.51	359.71	10,031.83	-80.18	742.83	25.64	12.00	12.00	0.00
10,125.00	44.51	359.71	10,050.11	-63.12	742.74	42.51	12.00	12.00	0.00
10,150.00	47.51	359.71	10,067.47	-45.14	742.65	60.31	12.00	12.00	0.00
10,155.07	48.12	359.71	10,070.87	-41.38	742.63	64.02	12.00	12.00	0.00
A01N02-FTP (203H)									
10,175.00	50.51	359.71	10,083.86	-26.27	742.55	78.97	12.00	12.00	0.00
10,200.00	53.51	359.71	10,099.25	-6.57	742.45	98.46	12.00	12.00	0.00
10,225.00	56.51	359.71	10,113.58	13.91	742.35	118.72	12.00	12.00	0.00
10,250.00	59.51	359.71	10,126.82	35.12	742.24	139.69	12.00	12.00	0.00
10,275.00	62.51	359.71	10,138.93	56.98	742.13	161.32	12.00	12.00	0.00
10,300.00	65.51	359.71	10,149.89	79.45	742.01	183.55	12.00	12.00	0.00
10,325.00	68.51	359.71	10,159.65	102.46	741.90	206.32	12.00	12.00	0.00
10,350.00	71.51	359.71	10,168.19	125.95	741.78	229.56	12.00	12.00	0.00
10,375.00	74.51	359.71	10,175.49	149.86	741.65	253.20	12.00	12.00	0.00
10,400.00	77.51	359.71	10,181.53	174.12	741.53	277.20	12.00	12.00	0.00
10,425.00	80.51	359.71	10,186.30	198.66	741.40	301.47	12.00	12.00	0.00
10,450.00	83.51	359.71	10,189.77	223.41	741.28	325.96	12.00	12.00	0.00
10,475.00	86.51	359.71	10,191.94	248.31	741.15	350.60	12.00	12.00	0.00
10,500.00	89.51	359.71	10,192.81	273.29	741.02	375.31	12.00	12.00	0.00
10,507.21	90.38	359.71	10,192.81	280.50	740.99	382.44	11.99	11.99	0.00
EOC: 10507.21' MD, 10192.81' TVD									
10,600.00	90.38	359.71	10,192.20	373.29	740.51	474.23	0.00	0.00	0.00
10,700.00	90.38	359.71	10,191.54	473.29	740.00	573.15	0.00	0.00	0.00
10,800.00	90.38	359.71	10,190.88	573.28	739.49	672.07	0.00	0.00	0.00
10,900.00	90.38	359.71	10,190.21	673.28	738.98	770.99	0.00	0.00	0.00
11,000.00	90.38	359.71	10,189.55	773.28	738.47	869.91	0.00	0.00	0.00
11,100.00	90.38	359.71	10,188.89	873.27	737.96	968.83	0.00	0.00	0.00
11,200.00	90.38	359.71	10,188.23	973.27	737.45	1,067.75	0.00	0.00	0.00
11,300.00	90.38	359.71	10,187.57	1,073.27	736.94	1,166.67	0.00	0.00	0.00
11,400.00	90.38	359.71	10,186.90	1,173.26	736.43	1,265.59	0.00	0.00	0.00
11,500.00	90.38	359.71	10,186.24	1,273.26	735.92	1,364.51	0.00	0.00	0.00
11,600.00	90.38	359.71	10,185.58	1,373.26	735.41	1,463.43	0.00	0.00	0.00
11,700.00	90.38	359.71	10,184.92	1,473.25	734.90	1,562.35	0.00	0.00	0.00
11,800.00	90.38	359.71	10,184.26	1,573.25	734.39	1,661.27	0.00	0.00	0.00
11,900.00	90.38	359.71	10,183.59	1,673.25	733.88	1,760.19	0.00	0.00	0.00
12,000.00	90.38	359.71	10,182.93	1,773.24	733.37	1,859.11	0.00	0.00	0.00
12,100.00	90.38	359.71	10,182.27	1,873.24	732.86	1,958.03	0.00	0.00	0.00
12,200.00	90.38	359.71	10,181.61	1,973.24	732.35	2,056.95	0.00	0.00	0.00
12,300.00	90.38	359.71	10,180.95	2,073.23	731.84	2,155.87	0.00	0.00	0.00
12,400.00	90.38	359.71	10,180.28	2,173.23	731.33	2,254.79	0.00	0.00	0.00
12,500.00	90.38	359.71	10,179.62	2,273.22	730.82	2,353.71	0.00	0.00	0.00
12,600.00	90.38	359.71	10,178.96	2,373.22	730.31	2,452.63	0.00	0.00	0.00
12,700.00	90.38	359.71	10,178.30	2,473.22	729.80	2,551.55	0.00	0.00	0.00
12,800.00	90.38	359.71	10,177.64	2,573.21	729.29	2,650.47	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Todd 2-24S-31E State 203H - Slot 203H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	3507+25 @ 3532.00usft
Project:	Eddy County, NM (NAD83-NME)	MD Reference:	3507+25 @ 3532.00usft
Site:	A01 Todd DSU	North Reference:	Grid
Well:	Todd 2-24S-31E State 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	203H		
Design:	Plan #1-Rev0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,900.00	90.38	359.71	10,176.97	2,673.21	728.77	2,749.39	0.00	0.00	0.00
13,000.00	90.38	359.71	10,176.31	2,773.21	728.26	2,848.31	0.00	0.00	0.00
13,100.00	90.38	359.71	10,175.65	2,873.20	727.75	2,947.23	0.00	0.00	0.00
13,200.00	90.38	359.71	10,174.99	2,973.20	727.24	3,046.15	0.00	0.00	0.00
13,300.00	90.38	359.71	10,174.33	3,073.20	726.73	3,145.07	0.00	0.00	0.00
13,400.00	90.38	359.71	10,173.66	3,173.19	726.22	3,243.99	0.00	0.00	0.00
13,500.00	90.38	359.71	10,173.00	3,273.19	725.71	3,342.91	0.00	0.00	0.00
13,600.00	90.38	359.71	10,172.34	3,373.19	725.20	3,441.83	0.00	0.00	0.00
13,700.00	90.38	359.71	10,171.68	3,473.18	724.69	3,540.75	0.00	0.00	0.00
13,800.00	90.38	359.71	10,171.02	3,573.18	724.18	3,639.67	0.00	0.00	0.00
13,900.00	90.38	359.71	10,170.35	3,673.18	723.67	3,738.59	0.00	0.00	0.00
14,000.00	90.38	359.71	10,169.69	3,773.17	723.16	3,837.51	0.00	0.00	0.00
14,100.00	90.38	359.71	10,169.03	3,873.17	722.65	3,936.43	0.00	0.00	0.00
14,200.00	90.38	359.71	10,168.37	3,973.17	722.14	4,035.35	0.00	0.00	0.00
14,300.00	90.38	359.71	10,167.70	4,073.16	721.63	4,134.27	0.00	0.00	0.00
14,400.00	90.38	359.71	10,167.04	4,173.16	721.12	4,233.19	0.00	0.00	0.00
14,500.00	90.38	359.71	10,166.38	4,273.15	720.61	4,332.11	0.00	0.00	0.00
14,600.00	90.38	359.71	10,165.72	4,373.15	720.10	4,431.03	0.00	0.00	0.00
14,700.00	90.38	359.71	10,165.06	4,473.15	719.59	4,529.95	0.00	0.00	0.00
14,800.00	90.38	359.71	10,164.39	4,573.14	719.08	4,628.87	0.00	0.00	0.00
14,900.00	90.38	359.71	10,163.73	4,673.14	718.57	4,727.79	0.00	0.00	0.00
15,000.00	90.38	359.71	10,163.07	4,773.14	718.06	4,826.71	0.00	0.00	0.00
15,100.00	90.38	359.71	10,162.41	4,873.13	717.55	4,925.63	0.00	0.00	0.00
15,156.37	90.38	359.71	10,162.04	4,929.50	717.26	4,981.39	0.00	0.00	0.00
A01N02-LTP (203H)									
15,200.00	90.38	359.71	10,161.75	4,973.13	717.04	5,024.55	0.00	0.00	0.00
15,246.27	90.38	359.71	10,161.44	5,019.40	716.80	5,070.32	0.00	0.00	0.00
TD: 15246.27' MD, 10161.44' TVD - A01N02-PBHL (203H)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
A01N02-EON (203H) - plan hits target center - Point	0.00	0.00	9,400.00	-200.12	743.44	451,284.68	722,897.54	32.23929302	-103.74610746
A01N02-PBHL (203H) - plan hits target center - Point	0.00	0.00	10,161.44	5,019.40	716.80	456,504.20	722,870.90	32.25364059	-103.74610130
A01N02-LTP (203H) - plan misses target center by 0.15usft at 15156.37usft MD (10162.04 TVD, 4929.50 N, 717.26 E) - Point	0.00	0.00	10,162.00	4,929.50	717.40	456,414.30	722,871.50	32.25339347	-103.74610095
A01N02-FTP (203H) - plan misses target center by 165.76usft at 10155.07usft MD (10070.87 TVD, -41.38 N, 742.63 E) - Point	0.00	0.00	10,196.00	-150.10	743.20	451,334.70	722,897.30	32.23943052	-103.74610735

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Todd 2-24S-31E State 203H - Slot 203H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	3507+25 @ 3532.00usft
Project:	Eddy County, NM (NAD83-NME)	MD Reference:	3507+25 @ 3532.00usft
Site:	A01 Todd DSU	North Reference:	Grid
Well:	Todd 2-24S-31E State 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	203H		
Design:	Plan #1-Rev0		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,754.04	9,715.36	-200.12	743.44	KOP: 9754.04' MD, 9715.36' TVD
10,507.21	10,192.81	280.50	740.99	EOC: 10507.21' MD, 10192.81' TVD
15,246.27	10,161.44	5,019.40	716.80	TD: 15246.27' MD, 10161.44' TVD