

# TITUS OIL GAS<sub>LLC</sub>

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JUN 08 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 304H - Slot 304H

304H

Plan: Plan #1-Rev0

## Standard Planning Report

31 May, 2019

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Todd 2-24S-31E State 304H - Slot 304H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	3507+25 @ 3532.00usft (KB=25)
<b>Project:</b>	Eddy County, NM (NAD83-NME)	<b>MD Reference:</b>	3507+25 @ 3532.00usft (KB=25)
<b>Site:</b>	A01 Todd DSU	<b>North Reference:</b>	Grid
<b>Well:</b>	Todd 2-24S-31E State 304H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	304H		
<b>Design:</b>	Plan #1-Rev0		

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

<b>Site</b>	A01 Todd DSU				
<b>Site Position:</b>	<b>Northing:</b>	451,484.10 usft	<b>Latitude:</b>	32.23985324	
<b>From:</b> Map	<b>Easting:</b>	722,093.00 usft	<b>Longitude:</b>	-103.74870598	
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.31 °

<b>Well</b>	Todd 2-24S-31E State 304H - Slot 304H					
<b>Well Position</b>	<b>+N/-S</b>	0.50 usft	<b>Northing:</b>	451,484.60 usft	<b>Latitude:</b>	32.23985415
	<b>+E/-W</b>	31.00 usft	<b>Easting:</b>	722,124.00 usft	<b>Longitude:</b>	-103.74860571
<b>Position Uncertainty</b>	0.00 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	3,507.00 usft	

<b>Wellbore</b>	304H				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	5/30/2019	6.83	60.02	47,727.88990115

<b>Design</b>	Plan #1-Rev0			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	356.01

<b>Plan Survey Tool Program</b>	<b>Date</b>	5/31/2019		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	16,619.54	Plan #1-Rev0 (304H)	MWD MWD - Standard

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
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	
1,678.93	2.68	240.67	1,678.86	-2.05	-3.65	1.50	1.50	0.00	240.67	
10,530.91	2.68	240.67	10,521.14	-205.08	-365.04	0.00	0.00	0.00	0.00	
10,709.84	0.00	0.00	10,700.00	-207.13	-368.69	1.50	-1.50	0.00	180.00	A01N04-EON (304H)
11,070.84	0.00	0.00	11,061.00	-207.13	-368.69	0.00	0.00	0.00	0.00	
11,973.34	90.25	3.20	11,633.95	367.43	-336.57	10.00	10.00	0.00	3.20	
12,144.66	90.25	359.77	11,633.20	538.66	-332.12	2.00	0.00	-2.00	-89.97	
16,619.67	90.25	359.77	11,613.56	5,013.60	-349.80	0.00	0.00	0.00	0.00	A01N04-PBHL (304H)

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Todd 2-24S-31E State 304H - Slot 304H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	3507+25 @ 3532.00usft (KB=25)
<b>Project:</b>	Eddy County, NM (NAD83-NME)	<b>MD Reference:</b>	3507+25 @ 3532.00usft (KB=25)
<b>Site:</b>	A01 Todd DSU	<b>North Reference:</b>	Grid
<b>Well:</b>	Todd 2-24S-31E State 304H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	304H		
<b>Design:</b>	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	240.67	1,599.99	-0.64	-1.14	-0.56	1.50	1.50	0.00
1,678.93	2.68	240.67	1,678.86	-2.05	-3.65	-1.79	1.50	1.50	0.00
1,700.00	2.68	240.67	1,699.91	-2.54	-4.51	-2.22	0.00	0.00	0.00
1,800.00	2.68	240.67	1,799.80	-4.83	-8.60	-4.22	0.00	0.00	0.00
1,900.00	2.68	240.67	1,899.69	-7.12	-12.68	-6.22	0.00	0.00	0.00
2,000.00	2.68	240.67	1,999.58	-9.42	-16.76	-8.23	0.00	0.00	0.00
2,100.00	2.68	240.67	2,099.47	-11.71	-20.84	-10.23	0.00	0.00	0.00
2,200.00	2.68	240.67	2,199.36	-14.00	-24.93	-12.23	0.00	0.00	0.00
2,300.00	2.68	240.67	2,299.25	-16.30	-29.01	-14.24	0.00	0.00	0.00
2,400.00	2.68	240.67	2,399.14	-18.59	-33.09	-16.24	0.00	0.00	0.00
2,500.00	2.68	240.67	2,499.03	-20.88	-37.17	-18.25	0.00	0.00	0.00
2,600.00	2.68	240.67	2,598.92	-23.18	-41.26	-20.25	0.00	0.00	0.00
2,700.00	2.68	240.67	2,698.81	-25.47	-45.34	-22.25	0.00	0.00	0.00
2,800.00	2.68	240.67	2,798.70	-27.76	-49.42	-24.26	0.00	0.00	0.00
2,900.00	2.68	240.67	2,898.60	-30.06	-53.50	-26.26	0.00	0.00	0.00
3,000.00	2.68	240.67	2,998.49	-32.35	-57.59	-28.27	0.00	0.00	0.00
3,100.00	2.68	240.67	3,098.38	-34.65	-61.67	-30.27	0.00	0.00	0.00
3,200.00	2.68	240.67	3,198.27	-36.94	-65.75	-32.27	0.00	0.00	0.00
3,300.00	2.68	240.67	3,298.16	-39.23	-69.83	-34.28	0.00	0.00	0.00
3,400.00	2.68	240.67	3,398.05	-41.53	-73.92	-36.28	0.00	0.00	0.00
3,500.00	2.68	240.67	3,497.94	-43.82	-78.00	-38.29	0.00	0.00	0.00
3,600.00	2.68	240.67	3,597.83	-46.11	-82.08	-40.29	0.00	0.00	0.00
3,700.00	2.68	240.67	3,697.72	-48.41	-86.16	-42.29	0.00	0.00	0.00
3,800.00	2.68	240.67	3,797.61	-50.70	-90.25	-44.30	0.00	0.00	0.00
3,900.00	2.68	240.67	3,897.50	-52.99	-94.33	-46.30	0.00	0.00	0.00
4,000.00	2.68	240.67	3,997.39	-55.29	-98.41	-48.30	0.00	0.00	0.00
4,100.00	2.68	240.67	4,097.28	-57.58	-102.49	-50.31	0.00	0.00	0.00
4,200.00	2.68	240.67	4,197.17	-59.87	-106.58	-52.31	0.00	0.00	0.00
4,300.00	2.68	240.67	4,297.06	-62.17	-110.66	-54.32	0.00	0.00	0.00
4,400.00	2.68	240.67	4,396.95	-64.46	-114.74	-56.32	0.00	0.00	0.00
4,500.00	2.68	240.67	4,496.84	-66.76	-118.82	-58.32	0.00	0.00	0.00
4,600.00	2.68	240.67	4,596.73	-69.05	-122.91	-60.33	0.00	0.00	0.00
4,700.00	2.68	240.67	4,696.62	-71.34	-126.99	-62.33	0.00	0.00	0.00
4,800.00	2.68	240.67	4,796.51	-73.64	-131.07	-64.34	0.00	0.00	0.00
4,900.00	2.68	240.67	4,896.40	-75.93	-135.15	-66.34	0.00	0.00	0.00
5,000.00	2.68	240.67	4,996.29	-78.22	-139.24	-68.34	0.00	0.00	0.00
5,100.00	2.68	240.67	5,096.18	-80.52	-143.32	-70.35	0.00	0.00	0.00
5,200.00	2.68	240.67	5,196.07	-82.81	-147.40	-72.35	0.00	0.00	0.00

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<b>Well:</b>	Todd 2-24S-31E State 304H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	304H		
<b>Design:</b>	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	2.68	240.67	5,295.96	-85.10	-151.48	-74.36	0.00	0.00	0.00
5,400.00	2.68	240.67	5,395.85	-87.40	-155.57	-76.36	0.00	0.00	0.00
5,500.00	2.68	240.67	5,495.74	-89.69	-159.65	-78.36	0.00	0.00	0.00
5,600.00	2.68	240.67	5,595.63	-91.98	-163.73	-80.37	0.00	0.00	0.00
5,700.00	2.68	240.67	5,695.52	-94.28	-167.81	-82.37	0.00	0.00	0.00
5,800.00	2.68	240.67	5,795.41	-96.57	-171.90	-84.37	0.00	0.00	0.00
5,900.00	2.68	240.67	5,895.30	-98.87	-175.98	-86.38	0.00	0.00	0.00
6,000.00	2.68	240.67	5,995.19	-101.16	-180.06	-88.38	0.00	0.00	0.00
6,100.00	2.68	240.67	6,095.08	-103.45	-184.14	-90.39	0.00	0.00	0.00
6,200.00	2.68	240.67	6,194.98	-105.75	-188.23	-92.39	0.00	0.00	0.00
6,300.00	2.68	240.67	6,294.87	-108.04	-192.31	-94.39	0.00	0.00	0.00
6,400.00	2.68	240.67	6,394.76	-110.33	-196.39	-96.40	0.00	0.00	0.00
6,500.00	2.68	240.67	6,494.65	-112.63	-200.47	-98.40	0.00	0.00	0.00
6,600.00	2.68	240.67	6,594.54	-114.92	-204.56	-100.41	0.00	0.00	0.00
6,700.00	2.68	240.67	6,694.43	-117.21	-208.64	-102.41	0.00	0.00	0.00
6,800.00	2.68	240.67	6,794.32	-119.51	-212.72	-104.41	0.00	0.00	0.00
6,900.00	2.68	240.67	6,894.21	-121.80	-216.80	-106.42	0.00	0.00	0.00
7,000.00	2.68	240.67	6,994.10	-124.09	-220.89	-108.42	0.00	0.00	0.00
7,100.00	2.68	240.67	7,093.99	-126.39	-224.97	-110.43	0.00	0.00	0.00
7,200.00	2.68	240.67	7,193.88	-128.68	-229.05	-112.43	0.00	0.00	0.00
7,300.00	2.68	240.67	7,293.77	-130.97	-233.13	-114.43	0.00	0.00	0.00
7,400.00	2.68	240.67	7,393.66	-133.27	-237.22	-116.44	0.00	0.00	0.00
7,500.00	2.68	240.67	7,493.55	-135.56	-241.30	-118.44	0.00	0.00	0.00
7,600.00	2.68	240.67	7,593.44	-137.86	-245.38	-120.44	0.00	0.00	0.00
7,700.00	2.68	240.67	7,693.33	-140.15	-249.46	-122.45	0.00	0.00	0.00
7,800.00	2.68	240.67	7,793.22	-142.44	-253.55	-124.45	0.00	0.00	0.00
7,900.00	2.68	240.67	7,893.11	-144.74	-257.63	-126.46	0.00	0.00	0.00
8,000.00	2.68	240.67	7,993.00	-147.03	-261.71	-128.46	0.00	0.00	0.00
8,100.00	2.68	240.67	8,092.89	-149.32	-265.79	-130.46	0.00	0.00	0.00
8,200.00	2.68	240.67	8,192.78	-151.62	-269.88	-132.47	0.00	0.00	0.00
8,300.00	2.68	240.67	8,292.67	-153.91	-273.96	-134.47	0.00	0.00	0.00
8,400.00	2.68	240.67	8,392.56	-156.20	-278.04	-136.48	0.00	0.00	0.00
8,500.00	2.68	240.67	8,492.45	-158.50	-282.12	-138.48	0.00	0.00	0.00
8,600.00	2.68	240.67	8,592.34	-160.79	-286.21	-140.48	0.00	0.00	0.00
8,700.00	2.68	240.67	8,692.23	-163.08	-290.29	-142.49	0.00	0.00	0.00
8,800.00	2.68	240.67	8,792.12	-165.38	-294.37	-144.49	0.00	0.00	0.00
8,900.00	2.68	240.67	8,892.01	-167.67	-298.45	-146.50	0.00	0.00	0.00
9,000.00	2.68	240.67	8,991.90	-169.97	-302.54	-148.50	0.00	0.00	0.00
9,100.00	2.68	240.67	9,091.79	-172.26	-306.62	-150.50	0.00	0.00	0.00
9,200.00	2.68	240.67	9,191.68	-174.55	-310.70	-152.51	0.00	0.00	0.00
9,300.00	2.68	240.67	9,291.57	-176.85	-314.78	-154.51	0.00	0.00	0.00
9,400.00	2.68	240.67	9,391.46	-179.14	-318.87	-156.51	0.00	0.00	0.00
9,500.00	2.68	240.67	9,491.36	-181.43	-322.95	-158.52	0.00	0.00	0.00
9,600.00	2.68	240.67	9,591.25	-183.73	-327.03	-160.52	0.00	0.00	0.00
9,700.00	2.68	240.67	9,691.14	-186.02	-331.11	-162.53	0.00	0.00	0.00
9,800.00	2.68	240.67	9,791.03	-188.31	-335.20	-164.53	0.00	0.00	0.00
9,900.00	2.68	240.67	9,890.92	-190.61	-339.28	-166.53	0.00	0.00	0.00
10,000.00	2.68	240.67	9,990.81	-192.90	-343.36	-168.54	0.00	0.00	0.00
10,100.00	2.68	240.67	10,090.70	-195.19	-347.44	-170.54	0.00	0.00	0.00
10,200.00	2.68	240.67	10,190.59	-197.49	-351.53	-172.55	0.00	0.00	0.00
10,300.00	2.68	240.67	10,290.48	-199.78	-355.61	-174.55	0.00	0.00	0.00
10,400.00	2.68	240.67	10,390.37	-202.08	-359.69	-176.55	0.00	0.00	0.00
10,500.00	2.68	240.67	10,490.26	-204.37	-363.77	-178.56	0.00	0.00	0.00
10,530.91	2.68	240.67	10,521.14	-205.08	-365.04	-179.18	0.00	0.00	0.00

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<b>Project:</b>	Eddy County, NM (NAD83-NME)	<b>MD Reference:</b>	3507+25 @ 3532.00usft (KB=25)
<b>Site:</b>	A01 Todd DSU	<b>North Reference:</b>	Grid
<b>Well:</b>	Todd 2-24S-31E State 304H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	304H		
<b>Design:</b>	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)
10,600.00	1.65	240.67	10,590.17	-206.36	-367.31	-180.29	1.50	-1.50	0.00
10,709.84	0.00	0.00	10,700.00	-207.13	-368.69	-180.97	1.50	-1.50	0.00
<b>A01N04-EON (304H)</b>									
10,800.00	0.00	0.00	10,790.16	-207.13	-368.69	-180.97	0.00	0.00	0.00
10,900.00	0.00	0.00	10,890.16	-207.13	-368.69	-180.97	0.00	0.00	0.00
11,000.00	0.00	0.00	10,990.16	-207.13	-368.69	-180.97	0.00	0.00	0.00
11,070.84	0.00	0.00	11,061.00	-207.13	-368.69	-180.97	0.00	0.00	0.00
<b>KOP: 11070.84' MD, 11061.00' TVD</b>									
11,100.00	2.92	3.20	11,090.15	-206.39	-368.65	-180.23	10.00	10.00	0.00
11,150.00	7.92	3.20	11,139.91	-201.68	-368.39	-175.55	10.00	10.00	0.00
11,200.00	12.92	3.20	11,189.07	-192.66	-367.88	-166.59	10.00	10.00	0.00
11,250.00	17.92	3.20	11,237.25	-179.39	-367.14	-153.41	10.00	10.00	0.00
11,300.00	22.92	3.20	11,284.10	-161.98	-366.17	-136.11	10.00	10.00	0.00
11,350.00	27.92	3.20	11,329.24	-140.56	-364.97	-114.82	10.00	10.00	0.00
11,400.00	32.92	3.20	11,372.35	-115.30	-363.56	-89.72	10.00	10.00	0.00
11,450.00	37.92	3.20	11,413.09	-86.38	-361.94	-60.98	10.00	10.00	0.00
11,500.00	42.92	3.20	11,451.14	-54.02	-360.13	-28.83	10.00	10.00	0.00
11,550.00	47.92	3.20	11,486.23	-18.48	-358.14	6.49	10.00	10.00	0.00
<b>A01N04-FTP (304H)</b>									
11,600.00	52.92	3.20	11,518.08	19.99	-355.99	44.71	10.00	10.00	0.00
11,650.00	57.92	3.20	11,546.45	61.07	-353.70	85.54	10.00	10.00	0.00
11,700.00	62.92	3.20	11,571.13	104.47	-351.27	128.67	10.00	10.00	0.00
11,750.00	67.92	3.20	11,591.92	149.86	-348.73	173.76	10.00	10.00	0.00
11,800.00	72.92	3.20	11,608.68	196.88	-346.10	220.48	10.00	10.00	0.00
11,850.00	77.92	3.20	11,621.26	245.17	-343.40	268.48	10.00	10.00	0.00
11,900.00	82.92	3.20	11,629.58	294.38	-340.65	317.38	10.00	10.00	0.00
11,950.00	87.92	3.20	11,633.58	344.13	-337.87	366.81	10.00	10.00	0.00
11,973.34	90.25	3.20	11,633.95	367.43	-336.57	389.96	10.00	10.00	0.00
<b>EOC: 11973.34' MD, 11633.95' TVD</b>									
12,000.00	90.25	2.67	11,633.84	394.05	-335.20	416.43	2.00	0.00	-2.00
12,100.00	90.25	0.67	11,633.40	494.01	-332.29	515.93	2.00	0.00	-2.00
12,144.66	90.25	359.77	11,633.20	538.66	-332.12	560.47	2.00	0.00	-2.00
12,200.00	90.25	359.77	11,632.96	594.00	-332.34	615.69	0.00	0.00	0.00
12,300.00	90.25	359.77	11,632.52	694.00	-332.74	715.48	0.00	0.00	0.00
12,400.00	90.25	359.77	11,632.08	794.00	-333.13	815.26	0.00	0.00	0.00
12,500.00	90.25	359.77	11,631.64	894.00	-333.53	915.04	0.00	0.00	0.00
12,600.00	90.25	359.77	11,631.20	994.00	-333.92	1,014.83	0.00	0.00	0.00
12,700.00	90.25	359.77	11,630.77	1,093.99	-334.32	1,114.61	0.00	0.00	0.00
12,800.00	90.25	359.77	11,630.33	1,193.99	-334.71	1,214.39	0.00	0.00	0.00
12,900.00	90.25	359.77	11,629.89	1,293.99	-335.11	1,314.17	0.00	0.00	0.00
13,000.00	90.25	359.77	11,629.45	1,393.99	-335.50	1,413.96	0.00	0.00	0.00
13,100.00	90.25	359.77	11,629.01	1,493.99	-335.90	1,513.74	0.00	0.00	0.00
13,200.00	90.25	359.77	11,628.57	1,593.99	-336.29	1,613.52	0.00	0.00	0.00
13,300.00	90.25	359.77	11,628.13	1,693.98	-336.69	1,713.31	0.00	0.00	0.00
13,400.00	90.25	359.77	11,627.69	1,793.98	-337.08	1,813.09	0.00	0.00	0.00
13,500.00	90.25	359.77	11,627.25	1,893.98	-337.48	1,912.87	0.00	0.00	0.00
13,600.00	90.25	359.77	11,626.81	1,993.98	-337.87	2,012.66	0.00	0.00	0.00
13,700.00	90.25	359.77	11,626.38	2,093.98	-338.27	2,112.44	0.00	0.00	0.00
13,800.00	90.25	359.77	11,625.94	2,193.98	-338.66	2,212.22	0.00	0.00	0.00
13,900.00	90.25	359.77	11,625.50	2,293.97	-339.06	2,312.01	0.00	0.00	0.00
14,000.00	90.25	359.77	11,625.06	2,393.97	-339.45	2,411.79	0.00	0.00	0.00
14,100.00	90.25	359.77	11,624.62	2,493.97	-339.85	2,511.57	0.00	0.00	0.00
14,200.00	90.25	359.77	11,624.18	2,593.97	-340.24	2,611.36	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Todd 2-24S-31E State 304H - Slot 304H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	3507+25 @ 3532.00usft (KB=25)
<b>Project:</b>	Eddy County, NM (NAD83-NME)	<b>MD Reference:</b>	3507+25 @ 3532.00usft (KB=25)
<b>Site:</b>	A01 Todd DSU	<b>North Reference:</b>	Grid
<b>Well:</b>	Todd 2-24S-31E State 304H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	304H		
<b>Design:</b>	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)
14,300.00	90.25	359.77	11,623.74	2,693.97	-340.64	2,711.14	0.00	0.00	0.00
14,400.00	90.25	359.77	11,623.30	2,793.97	-341.03	2,810.92	0.00	0.00	0.00
14,500.00	90.25	359.77	11,622.86	2,893.96	-341.43	2,910.71	0.00	0.00	0.00
14,600.00	90.25	359.77	11,622.43	2,993.96	-341.82	3,010.49	0.00	0.00	0.00
14,700.00	90.25	359.77	11,621.99	3,093.96	-342.22	3,110.27	0.00	0.00	0.00
14,800.00	90.25	359.77	11,621.55	3,193.96	-342.61	3,210.06	0.00	0.00	0.00
14,900.00	90.25	359.77	11,621.11	3,293.96	-343.01	3,309.84	0.00	0.00	0.00
15,000.00	90.25	359.77	11,620.67	3,393.95	-343.40	3,409.62	0.00	0.00	0.00
15,100.00	90.25	359.77	11,620.23	3,493.95	-343.80	3,509.41	0.00	0.00	0.00
15,200.00	90.25	359.77	11,619.79	3,593.95	-344.19	3,609.19	0.00	0.00	0.00
15,300.00	90.25	359.77	11,619.35	3,693.95	-344.59	3,708.97	0.00	0.00	0.00
15,400.00	90.25	359.77	11,618.91	3,793.95	-344.98	3,808.76	0.00	0.00	0.00
15,500.00	90.25	359.77	11,618.47	3,893.95	-345.38	3,908.54	0.00	0.00	0.00
15,600.00	90.25	359.77	11,618.04	3,993.94	-345.77	4,008.32	0.00	0.00	0.00
15,700.00	90.25	359.77	11,617.60	4,093.94	-346.17	4,108.11	0.00	0.00	0.00
15,800.00	90.25	359.77	11,617.16	4,193.94	-346.56	4,207.89	0.00	0.00	0.00
15,900.00	90.25	359.77	11,616.72	4,293.94	-346.96	4,307.67	0.00	0.00	0.00
16,000.00	90.25	359.77	11,616.28	4,393.94	-347.35	4,407.46	0.00	0.00	0.00
16,100.00	90.25	359.77	11,615.84	4,493.94	-347.75	4,507.24	0.00	0.00	0.00
16,200.00	90.25	359.77	11,615.40	4,593.93	-348.14	4,607.02	0.00	0.00	0.00
16,300.00	90.25	359.77	11,614.96	4,693.93	-348.54	4,706.81	0.00	0.00	0.00
16,400.00	90.25	359.77	11,614.52	4,793.93	-348.93	4,806.59	0.00	0.00	0.00
16,500.00	90.25	359.77	11,614.09	4,893.93	-349.33	4,906.37	0.00	0.00	0.00
16,529.67	90.25	359.77	11,613.96	4,923.60	-349.44	4,935.98	0.00	0.00	0.00
<b>A01N04-LTP (304H)</b>									
16,600.00	90.25	359.77	11,613.65	4,993.93	-349.72	5,006.16	0.00	0.00	0.00
16,619.67	90.25	359.77	11,613.56	5,013.60	-349.80	5,025.78	0.00	0.00	0.00
<b>TD: 16619.67' MD, 11613.56' TVD - A01N04-PBHL (304H)</b>									

**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
A01N04-EON (304H) - plan hits target center - Point	0.00	0.00	10,700.00	-207.13	-368.69	451,277.47	721,755.31	32.23929031	-103.74980177
A01N04-PBHL (304H) - plan hits target center - Point	0.00	0.00	11,613.56	5,013.60	-349.80	456,498.20	721,774.20	32.25364053	-103.74964890
A01N04-LTP (304H) - plan misses target center by 0.06usft at 16529.67usft MD (11613.96 TVD, 4923.60 N, -349.44 E) - Point	0.00	0.00	11,614.00	4,923.60	-349.40	456,408.20	721,774.60	32.25339314	-103.74964919
A01N04-FTP (304H) - plan misses target center by 206.10usft at 11550.00usft MD (11486.23 TVD, -18.48 N, -358.14 E) - Point	0.00	0.00	11,636.00	-157.00	-328.90	451,327.60	721,795.10	32.23942751	-103.74967220

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Todd 2-24S-31E State 304H - Slot 304H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	3507+25 @ 3532.00usft (KB=25)
<b>Project:</b>	Eddy County, NM (NAD83-NME)	<b>MD Reference:</b>	3507+25 @ 3532.00usft (KB=25)
<b>Site:</b>	A01 Todd DSU	<b>North Reference:</b>	Grid
<b>Well:</b>	Todd 2-24S-31E State 304H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	304H		
<b>Design:</b>	Plan #1-Rev0		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,070.84	11,061.00	-207.13	-368.69	KOP: 11070.84' MD, 11061.00' TVD
11,973.34	11,633.95	367.43	-336.57	EOC: 11973.34' MD, 11633.95' TVD
16,619.67	11,613.56	5,013.60	-349.80	TD: 16619.67' MD, 11613.56' TVD