

Well Name: WILD SALSA 24-13 FED	Well Location: T23S / R32E / SEC 25 / TR A / 32.2812044 / -103.6236164	County or Parish/State: LEA / NM
Well Number: 324H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC063228	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254763800X1	Well Status: Approved Application for Permit to Drill	Operator: TITUS OIL AND GAS PRODUCTION LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Drilling Operations
Date Sundry Submitted: 01/12/2021	Time Sundry Submitted: 01:36
Date proposed operation will begin: 01/06/2021	

Procedure Description: (1/7/2021-1/10/2021) DRILLED 8.75" LATERAL TO 22,436' MD. TOO H FOR MOTOR FAILURE. BHA GOT STUCK @ 13,250' MD. ROTOR PULLED OUT OF ROTOR CATCH & OPERATOR LEFT ROTOR/LOWER END/ BIT @ 13,250'. OPERATOR ATTEMPTED TO FISH MOTOR BUT COULD NOT GET TO FISH WITH OVERSHOT. OPERATOR PERFORMED OPEN HOLE SIDETRACK @ 12,791' MD TO REDRILL LATERAL TO TD.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Wild_Salsa_Fed_Com_324H___Plan_6_01_10_21_20210112133120.xlsx
- Wild_Salsa_Fed_Com_324H___Plan_6_01_10_21_AC_Report_20210112133119.pdf
- Wild_Salsa_Fed_Com_324H___Plan_6_01_10_21_20210112133119.pdf

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Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: DELONG

Signed on: JAN 12, 2021 01:27 PM

Name: TITUS OIL AND GAS PRODUCTION LLC

Title: Regulatory Manager

Street Address: 420 Throckmorton St., Suite 1150

City: Fort Worth

State: TX

Phone: (817) 852-6358

Email address: rdelong@titusoil.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



Titus Oil & Gas Production, LLC

**Lea County, NM (NAD27 NME)
Wild Salsa Fed Com
324H**

**ST01 / 67084
Plan 6 01-10-21**

Anticollision Report

10 January, 2021





Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Reference	Plan 6 01-10-21		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 50,000.00 u	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	1/10/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
141.00	12,791.00	Corrected MWD Surveys (OH / 67084)	MWD+HDGM+MS	OWSG Rev.2 MWD + HDGM + Multi-Station Corr
12,791.00	23,251.40	Plan 6 01-10-21 (ST01 / 67084)	MWD+HDGM+MS	OWSG Rev.2 MWD + HDGM + Multi-Station Corr

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Triste Draw 25 Federal						
1H - OH - Surveys (Cactus 104)	10,991.06	15,042.72	500.14	386.42	4.398	CC, ES
1H - OH - Surveys (Cactus 104)	11,000.00	15,042.61	500.22	386.46	4.397	SF
2H - OH - Surveys	11,025.48	15,007.35	807.94	691.45	6.936	CC, ES, SF
5H - OH - Surveys	9,873.62	13,940.46	745.58	635.38	6.765	CC, ES
5H - OH - Surveys	9,900.00	13,941.23	746.13	635.79	6.762	SF
7H - OH - Surveys	9,906.12	14,268.43	1,028.78	917.10	9.212	CC, ES, SF
Wild Salsa Fed Com						
214H - OH - Plan 3 11-24-20	3,200.00	3,194.39	524.57	506.35	28.800	CC
214H - OH - Plan 3 11-24-20	3,800.00	3,793.58	527.20	505.97	24.830	ES
214H - OH - Plan 3 11-24-20	23,251.42	21,517.60	1,558.94	1,349.90	7.458	SF
216H - OH - Plan 4 12-01-20	1,317.35	1,316.64	493.41	484.46	55.168	CC
216H - OH - Plan 4 12-01-20	1,400.00	1,399.29	493.58	484.20	52.644	ES
216H - OH - Plan 4 12-01-20	23,251.42	21,656.21	1,529.30	1,316.52	7.187	SF
223H - OH - Prelim	400.00	394.45	579.20	575.36	150.620	CC, ES
223H - OH - Prelim	23,251.42	22,060.14	1,727.18	1,449.02	6.209	SF
224H - OH - Plan 4 11-24-20	5,575.08	5,583.55	350.78	321.00	11.779	CC
224H - OH - Plan 4 11-24-20	10,411.06	10,420.70	363.26	311.45	7.012	ES
224H - OH - Plan 4 11-24-20	23,251.42	21,867.88	1,068.62	892.17	6.056	SF
323H - OH - Plan 4 01-05-21	400.00	397.95	49.57	45.71	12.859	CC, ES
323H - OH - Plan 4 01-05-21	23,251.42	23,298.84	1,353.52	1,036.90	4.275	SF
324H - OH / 67084 - Surveys (H&P 474)	13,100.00	13,098.83	13.55	11.40	6.317	CC
324H - OH / 67084 - Surveys (H&P 474)	22,359.17	22,358.58	35.76	-141.29	0.202	Level 1, ES, SF
404H - OH / 67083 - Plan 6 11-30-20	340.64	339.60	24.73	21.23	7.062	CC
404H - OH / 67083 - Plan 6 11-30-20	400.00	398.95	24.83	20.97	6.435	ES
404H - OH / 67083 - Plan 6 11-30-20	23,251.42	23,211.83	718.79	414.74	2.364	SF
404H - OH / 67083 - Surveys (H&P 474)	400.00	399.00	22.69	18.67	5.643	CC, ES
404H - OH / 67083 - Surveys (H&P 474)	1,600.00	1,597.46	39.70	28.96	3.695	SF
406H - OH / 67082 - Plan 3 11-30-20	1,240.07	1,239.86	17.32	8.79	2.030	CC
406H - OH / 67082 - Plan 3 11-30-20	1,300.00	1,299.79	17.38	8.53	1.963	ES
406H - OH / 67082 - Plan 3 11-30-20	1,400.00	1,399.79	17.95	8.57	1.914	SF
406H - OH / 67082 - Surveys (H&P 474)	885.64	885.25	23.68	16.58	3.337	CC
406H - OH / 67082 - Surveys (H&P 474)	1,400.00	1,399.87	25.13	15.17	2.524	ES
406H - OH / 67082 - Surveys (H&P 474)	1,500.00	1,499.92	26.01	15.56	2.490	SF
93H - OH / 67086 - Plan 2 01-05-21	400.00	397.95	74.39	70.53	19.297	CC, ES
93H - OH / 67086 - Plan 2 01-05-21	1,700.00	1,689.75	98.89	87.51	8.692	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Wild Salsa Fed Com						
95H - OH - Plan 3 11-24-20	1,313.50	1,311.80	203.60	194.69	22.848	CC
95H - OH - Plan 3 11-24-20	5,100.00	5,096.52	208.84	180.36	7.333	ES
95H - OH - Plan 3 11-24-20	9,000.00	9,002.61	308.39	254.81	5.755	SF
96H - OH - Plan 4 12-01-20	1,300.17	1,298.46	206.45	197.60	23.323	CC, ES
96H - OH - Plan 4 12-01-20	23,251.42	20,503.61	2,560.23	2,367.35	13.273	SF

Offset Design

Triste Draw 25 Federal - 1H - OH - Surveys (Cactus 104)

Offset Site Error: 0.00 usft

Survey Program: 139-GYD_CT_C011Ga, 4901-MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	29.50	1.00	0.00	172.42		-4,283.09	570.13	4,320.97				
100.00	100.00	70.32	99.82	1.01	0.06	158.55		-4,283.08	570.27	4,321.43	4,320.35	1.07	4,031.254	
200.00	199.98	168.47	197.97	1.08	0.17	-174.14		-4,283.01	570.89	4,322.98	4,321.72	1.25	3,447.501	
300.00	299.96	263.11	292.60	1.26	0.32	-159.32		-4,283.01	571.62	4,324.99	4,323.41	1.58	2,736.606	
400.00	399.95	358.39	387.88	1.51	0.46	156.31		-4,283.13	572.36	4,327.05	4,325.09	1.96	2,209.831	
500.00	499.92	456.30	485.79	1.79	0.54	115.83		-4,283.34	573.04	4,328.77	4,326.45	2.32	1,865.362	
600.00	599.89	553.65	583.14	2.09	0.63	109.64		-4,283.62	573.58	4,330.13	4,327.43	2.70	1,603.123	
700.00	699.85	647.84	677.32	2.41	0.69	104.78		-4,283.99	574.02	4,331.37	4,328.29	3.08	1,408.427	
800.00	799.82	742.83	772.31	2.74	0.75	100.00		-4,284.50	574.41	4,332.55	4,329.10	3.46	1,252.475	
900.00	899.80	841.09	870.57	3.07	0.80	80.24		-4,285.10	574.73	4,333.28	4,329.43	3.85	1,126.321	
1,000.00	999.80	944.67	974.15	3.40	0.85	69.71		-4,285.78	574.96	4,333.70	4,329.47	4.23	1,024.319	
1,100.00	1,099.80	1,062.56	1,092.04	3.74	0.88	77.49		-4,286.26	574.79	4,333.88	4,329.28	4.60	942.351	
1,200.00	1,199.79	1,173.11	1,202.59	4.08	0.91	113.22		-4,286.37	574.21	4,333.92	4,328.94	4.98	869.761	
1,300.00	1,299.79	1,279.95	1,309.42	4.43	0.95	163.01		-4,286.31	573.52	4,334.17	4,328.80	5.37	806.459	
1,400.00	1,399.79	1,371.80	1,401.27	4.77	0.98	-160.38		-4,286.25	572.91	4,334.73	4,328.98	5.75	753.794	
1,500.00	1,499.78	1,461.87	1,491.34	5.11	1.01	-143.93		-4,286.38	572.45	4,335.88	4,329.76	6.12	708.150	
1,600.00	1,599.77	1,558.92	1,588.39	5.45	1.03	-127.86		-4,286.66	572.21	4,337.45	4,330.98	6.48	669.640	
1,700.00	1,699.75	1,657.79	1,687.26	5.79	1.04	-114.71		-4,286.90	572.47	4,338.66	4,331.83	6.83	635.536	
1,800.00	1,799.74	1,768.71	1,798.18	6.13	1.04	-117.80		-4,287.04	572.89	4,339.48	4,332.32	7.17	605.456	
1,900.00	1,899.73	1,878.08	1,907.55	6.47	1.05	-117.52		-4,286.95	572.75	4,340.10	4,332.58	7.51	577.574	
2,000.00	1,999.72	1,972.59	2,002.05	6.81	1.08	-96.49		-4,286.89	572.35	4,340.41	4,332.52	7.89	550.337	
2,100.00	2,099.71	2,066.19	2,095.66	7.15	1.11	-65.79		-4,286.97	571.81	4,340.20	4,331.95	8.25	525.818	
2,155.58	2,155.28	2,115.71	2,145.17	7.34	1.11	-77.32		-4,287.08	571.59	4,340.11	4,331.66	8.45	513.600	
2,200.00	2,199.71	2,155.28	2,184.75	7.49	1.12	-86.30		-4,287.20	571.52	4,340.18	4,331.58	8.61	504.249	
2,300.00	2,299.70	2,245.66	2,275.13	7.83	1.13	-90.67		-4,287.62	571.66	4,340.66	4,331.70	8.96	484.248	
2,400.00	2,399.69	2,371.16	2,400.63	8.18	1.15	-78.47		-4,287.89	572.18	4,340.84	4,331.51	9.33	465.176	
2,500.00	2,499.69	2,484.36	2,513.82	8.52	1.18	-65.10		-4,287.56	572.68	4,340.25	4,330.55	9.70	447.342	
2,600.00	2,599.68	2,586.50	2,615.96	8.87	1.21	-74.38		-4,287.16	573.00	4,339.61	4,329.53	10.08	430.655	
2,700.00	2,699.68	2,695.54	2,725.00	9.21	1.25	-94.25		-4,286.62	573.23	4,339.06	4,328.60	10.46	414.967	
2,800.00	2,799.68	2,808.12	2,837.57	9.56	1.28	-127.86		-4,285.74	573.64	4,338.53	4,327.69	10.84	400.224	
2,900.00	2,899.68	2,906.60	2,936.05	9.92	1.30	-159.86		-4,284.86	573.84	4,338.12	4,326.91	11.21	386.858	
2,992.72	2,992.40	2,997.53	3,026.98	10.24	1.32	-168.16		-4,284.14	573.58	4,337.95	4,326.39	11.56	375.245	
3,000.00	2,999.68	3,001.20	3,030.64	10.27	1.32	-168.60		-4,284.12	573.56	4,337.90	4,326.31	11.59	374.383	
3,100.00	3,099.67	3,093.17	3,122.62	10.62	1.34	-162.58		-4,283.58	572.99	4,338.17	4,326.21	11.96	362.610	
3,200.00	3,199.67	3,192.20	3,221.64	10.98	1.37	-165.71		-4,283.30	572.22	4,338.76	4,326.42	12.34	351.518	
3,300.00	3,299.66	3,274.03	3,303.47	11.33	1.39	-179.06		-4,283.26	571.52	4,339.44	4,326.73	12.72	341.159	
3,400.00	3,399.66	3,366.47	3,395.90	11.68	1.42	166.23		-4,283.36	570.72	4,340.52	4,327.43	13.10	331.359	
3,500.00	3,499.65	3,456.52	3,485.94	12.04	1.44	163.43		-4,283.64	570.01	4,341.63	4,328.16	13.48	322.192	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



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Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 139-GYD_CT_C011Ga, 4901-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
3,600.00	3,599.65	3,546.10	3,575.52	12.39	1.46	-151.48	-4,284.10	569.49	4,342.43	4,328.58	13.85	313.500	
3,700.00	3,699.65	3,637.89	3,667.31	12.74	1.49	-168.74	-4,284.75	569.15	4,343.64	4,329.41	14.23	305.229	
3,800.00	3,799.65	3,730.54	3,759.96	13.10	1.52	-152.50	-4,285.55	568.99	4,345.07	4,330.46	14.61	297.391	
3,900.00	3,899.65	3,823.11	3,852.52	13.45	1.54	-35.69	-4,286.48	569.01	4,346.03	4,331.04	14.98	290.044	
4,000.00	3,999.64	3,915.63	3,945.04	13.79	1.57	-63.73	-4,287.55	569.17	4,346.77	4,331.42	15.35	283.094	
4,100.00	4,099.64	4,019.17	4,048.57	14.13	1.60	-66.14	-4,288.82	569.54	4,347.60	4,331.87	15.73	276.387	
4,200.00	4,199.64	4,129.37	4,158.76	14.48	1.63	0.50	-4,289.89	570.32	4,348.38	4,332.27	16.11	269.970	
4,300.00	4,299.62	4,240.10	4,269.48	14.82	1.65	49.28	-4,290.58	571.96	4,348.09	4,331.61	16.48	263.894	
4,400.00	4,399.56	4,363.92	4,393.24	15.16	1.68	55.14	-4,290.76	575.47	4,346.49	4,329.64	16.85	258.017	
4,500.00	4,499.52	4,543.49	4,572.75	15.50	1.72	59.59	-4,288.82	579.53	4,344.35	4,327.13	17.22	252.247	
4,600.00	4,599.48	4,620.05	4,649.30	15.84	1.74	56.62	-4,287.71	580.77	4,341.53	4,323.95	17.58	246.942	
4,700.00	4,699.36	4,710.90	4,740.13	16.19	1.76	54.06	-4,286.61	582.08	4,337.74	4,319.80	17.94	241.753	
4,800.00	4,799.16	4,801.53	4,830.75	16.53	1.77	54.97	-4,285.73	583.15	4,333.19	4,314.89	18.30	236.835	
4,900.00	4,899.01	4,894.95	4,924.16	16.87	1.78	57.40	-4,285.01	583.89	4,329.57	4,310.92	18.65	232.138	
5,000.00	4,998.96	4,974.54	5,003.75	17.22	1.81	53.72	-4,284.75	584.32	4,327.40	4,308.37	19.02	227.466	
5,100.00	5,098.90	5,080.54	5,109.75	17.56	1.87	54.78	-4,284.54	585.02	4,325.34	4,305.92	19.43	222.667	
5,200.00	5,198.84	5,188.72	5,217.93	17.91	1.95	51.88	-4,284.03	585.70	4,322.88	4,303.03	19.85	217.767	
5,300.00	5,298.82	5,291.07	5,320.27	18.26	2.05	86.23	-4,283.49	586.16	4,321.34	4,301.05	20.30	212.901	
5,333.92	5,332.73	5,325.37	5,354.57	18.37	2.09	151.38	-4,283.29	586.30	4,321.25	4,300.79	20.45	211.264	
5,400.00	5,398.81	5,391.59	5,420.79	18.60	2.16	-145.93	-4,282.93	586.47	4,321.75	4,300.99	20.76	208.133	
5,500.00	5,498.79	5,492.55	5,521.75	18.96	2.30	-143.41	-4,282.39	586.54	4,322.72	4,301.47	21.25	203.418	
5,600.00	5,598.78	5,592.55	5,621.75	19.31	2.45	-135.76	-4,281.87	586.48	4,323.42	4,301.67	21.75	198.789	
5,700.00	5,698.77	5,692.13	5,721.33	19.66	2.59	-137.31	-4,281.36	586.31	4,323.92	4,301.68	22.25	194.373	
5,800.00	5,798.76	5,785.81	5,815.01	20.01	2.73	-145.31	-4,280.95	586.19	4,324.46	4,301.73	22.74	190.209	
5,900.00	5,898.75	5,875.00	5,904.20	20.36	2.87	-147.07	-4,280.65	586.25	4,325.12	4,301.90	23.23	186.215	
6,000.00	5,998.74	5,970.00	5,999.20	20.72	3.02	-148.19	-4,280.64	586.14	4,326.28	4,302.54	23.74	182.256	
6,100.00	6,098.73	6,052.88	6,082.07	21.07	3.17	-148.14	-4,280.94	585.82	4,327.88	4,303.64	24.23	178.588	
6,200.00	6,198.72	6,149.26	6,178.45	21.42	3.34	-148.72	-4,281.41	585.48	4,329.64	4,304.88	24.76	174.879	
6,300.00	6,298.70	6,251.77	6,280.96	21.77	3.53	-147.10	-4,281.94	584.92	4,331.57	4,306.27	25.30	171.206	
6,400.00	6,398.69	6,354.01	6,383.19	22.13	3.72	-95.13	-4,282.43	584.22	4,333.07	4,307.23	25.84	167.683	
6,500.00	6,498.67	6,458.69	6,487.87	22.47	3.91	-66.50	-4,282.81	583.76	4,332.78	4,306.40	26.38	164.251	
6,600.00	6,598.65	6,561.01	6,590.19	22.82	4.10	-28.98	-4,283.08	583.48	4,331.98	4,305.07	26.92	160.949	
6,700.00	6,698.64	15,116.99	10,996.33	23.16	76.95	-32.14	64.60	514.50	4,327.18	4,280.07	47.11	91.856	
6,800.00	6,798.64	15,114.36	10,996.36	23.51	76.91	-3.56	61.96	514.49	4,227.78	4,180.43	47.36	89.274	
6,900.00	6,898.64	15,112.26	10,996.39	23.86	76.87	6.80	59.86	514.48	4,128.43	4,080.81	47.62	86.700	
7,000.00	6,998.64	15,110.10	10,996.41	24.20	76.83	-18.28	57.71	514.47	4,029.12	3,981.24	47.88	84.143	
7,100.00	7,098.63	15,107.60	10,996.44	24.55	76.79	-59.44	55.20	514.46	3,929.88	3,881.72	48.16	81.606	
7,200.00	7,198.63	15,104.64	10,996.48	24.89	76.73	-64.91	52.24	514.44	3,830.68	3,782.24	48.43	79.091	
7,300.00	7,298.63	15,101.66	10,996.52	25.23	76.68	-58.81	49.26	514.42	3,731.51	3,682.79	48.72	76.593	
7,400.00	7,398.63	15,098.92	10,996.55	25.58	76.63	-66.43	46.52	514.40	3,632.39	3,583.37	49.01	74.109	
7,500.00	7,498.62	15,096.08	10,996.58	25.92	76.58	-75.92	43.69	514.39	3,533.33	3,484.01	49.32	71.643	
7,600.00	7,598.62	15,092.71	10,996.62	26.27	76.52	-83.99	40.31	514.36	3,434.33	3,384.70	49.63	69.199	
7,700.00	7,698.61	15,088.70	10,996.66	26.62	76.45	-83.00	36.31	514.34	3,335.38	3,285.44	49.95	66.779	
7,800.00	7,798.59	15,084.80	10,996.70	26.96	76.38	-82.73	32.40	514.31	3,236.49	3,186.22	50.28	64.376	
7,900.00	7,898.58	15,081.83	10,996.73	27.31	76.33	-67.04	29.43	514.29	3,137.66	3,087.04	50.62	61.980	
8,000.00	7,998.58	15,080.63	10,996.74	27.66	76.31	54.68	28.23	514.28	3,038.90	2,987.90	51.00	59.587	
8,100.00	8,098.58	15,080.30	10,996.74	28.01	76.30	76.84	27.91	514.28	2,940.25	2,888.85	51.40	57.203	
8,200.00	8,198.58	15,079.88	10,996.75	28.36	76.30	79.30	27.48	514.27	2,841.70	2,789.89	51.82	54.840	
8,300.00	8,298.58	15,079.06	10,996.76	28.71	76.28	158.20	26.66	514.27	2,743.30	2,691.04	52.26	52.498	
8,400.00	8,398.57	15,077.88	10,996.77	29.06	76.26	-150.84	25.48	514.26	2,645.07	2,592.35	52.72	50.175	
8,500.00	8,498.57	15,076.35	10,996.78	29.40	76.24	-135.55	23.95	514.25	2,547.00	2,493.80	53.20	47.875	
8,600.00	8,598.57	15,074.56	10,996.80	29.75	76.21	-139.03	22.16	514.23	2,449.13	2,395.41	53.72	45.592	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 139-GYD_CT_C011Ga, 4901-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,700.00	8,698.56	15,072.64	10,996.82	30.10	76.17	-142.08	20.25	514.22	2,351.48	2,297.21	54.27	43.330	
8,800.00	8,798.55	15,070.67	10,996.84	30.45	76.14	-149.25	18.28	514.20	2,254.10	2,199.23	54.86	41.085	
8,900.00	8,898.54	15,068.75	10,996.85	30.80	76.11	-145.13	16.35	514.19	2,156.96	2,101.45	55.51	38.859	
9,000.00	8,998.54	15,066.89	10,996.87	31.15	76.07	-139.52	14.49	514.17	2,060.03	2,003.83	56.20	36.656	
9,100.00	8,998.53	15,065.10	10,996.89	31.49	76.04	-130.14	12.70	514.16	1,963.35	1,906.40	56.95	34.474	
9,200.00	8,998.53	15,063.05	10,996.91	31.84	76.01	-120.66	10.65	514.14	1,867.01	1,809.24	57.77	32.317	
9,300.00	8,998.52	15,061.00	10,996.93	32.19	75.97	-102.84	8.61	514.13	1,771.01	1,712.34	58.67	30.184	
9,400.00	8,998.52	15,059.25	10,996.94	32.54	75.94	-77.40	6.85	514.11	1,675.31	1,615.65	59.67	28.078	
9,500.00	8,998.51	15,057.17	10,996.96	32.89	75.91	-76.59	4.77	514.10	1,580.14	1,519.36	60.78	25.999	
9,600.00	8,998.51	15,055.94	10,996.97	33.23	75.89	35.38	3.55	514.09	1,485.54	1,423.51	62.03	23.948	
9,700.00	8,998.51	15,055.77	10,996.97	33.58	75.88	75.17	3.38	514.09	1,391.66	1,328.19	63.47	21.926	
9,800.00	8,998.50	15,056.16	10,996.97	33.93	75.89	94.19	3.77	514.09	1,298.82	1,233.68	65.14	19.939	
9,900.00	8,998.48	15,056.93	10,996.96	34.28	75.90	90.93	4.54	514.10	1,207.21	1,140.12	67.09	17.993	
10,000.00	8,998.47	15,057.42	10,996.96	34.63	75.91	37.24	5.02	514.10	1,116.78	1,047.43	69.35	16.104	
10,100.00	10,098.45	15,056.83	10,996.97	34.98	75.90	-5.33	4.43	514.09	1,027.44	955.50	71.93	14.283	
10,200.00	10,198.42	15,055.68	10,996.98	35.33	75.88	2.78	3.29	514.09	940.05	865.07	74.98	12.537	
10,300.00	10,298.42	15,054.93	10,996.98	35.68	75.87	23.44	2.54	514.08	856.27	777.56	78.71	10.879	
10,400.00	10,398.42	15,054.25	10,996.99	36.03	75.86	117.00	1.85	514.07	776.73	693.54	83.19	9.337	
10,500.00	10,498.42	15,053.16	10,997.00	36.38	75.84	-146.09	0.77	514.07	702.91	614.41	88.50	7.943	
10,600.00	10,598.41	15,051.48	10,997.01	36.72	75.81	-134.34	-0.91	514.05	636.59	542.03	94.56	6.732	
10,700.00	10,698.40	15,049.33	10,997.03	37.07	75.77	-111.33	-3.06	514.03	579.80	478.78	101.02	5.739	
10,800.00	10,798.39	15,047.03	10,997.05	37.42	75.74	-125.72	-5.37	514.01	535.96	428.78	107.18	5.000	
10,900.00	10,898.37	15,044.44	10,997.08	37.77	75.69	-126.94	-7.96	513.99	508.52	396.68	111.84	4.547	
10,991.06	10,989.41	15,042.72	10,997.09	38.09	75.66	-165.48	-9.67	513.98	500.14	386.42	113.71	4.398 CC, ES	
11,000.00	10,998.36	15,042.61	10,997.09	38.12	75.66	-169.82	-9.78	513.98	500.22	386.46	113.75	4.397 SF	
11,100.00	11,098.34	15,042.00	10,997.10	38.47	75.65	166.67	-10.39	513.97	512.05	399.63	112.42	4.555	
11,200.00	11,198.33	15,041.33	10,997.10	38.82	75.64	175.68	-11.06	513.97	542.20	433.76	108.44	5.000	
11,300.00	11,298.32	15,040.64	10,997.11	39.17	75.63	157.21	-11.76	513.96	587.68	484.64	103.03	5.704	
11,400.00	11,398.31	15,040.53	10,997.11	39.52	75.62	135.68	-11.86	513.96	645.41	548.05	97.36	6.629	
11,500.00	11,498.30	15,041.04	10,997.10	39.87	75.63	132.47	-11.35	513.96	712.84	620.72	92.12	7.738	
11,600.00	11,598.26	15,042.06	10,997.10	40.22	75.65	136.18	-10.33	513.97	787.53	699.89	87.64	8.986	
11,700.00	11,698.13	15,045.31	10,997.07	40.57	75.71	93.18	-7.08	514.00	867.42	783.47	83.95	10.333	
11,800.00	11,797.26	15,057.00	10,996.96	40.92	75.91	91.03	4.61	514.10	950.43	869.40	81.04	11.728	
11,900.00	11,894.04	15,078.39	10,996.76	41.25	76.27	82.18	25.99	514.26	1,038.51	959.28	79.23	13.107	
12,000.00	11,984.36	15,114.62	10,996.36	41.58	76.91	55.54	62.22	514.49	1,126.02	1,047.64	78.38	14.366	
12,100.00	12,063.58	15,168.82	10,995.52	41.88	77.87	40.87	116.41	514.64	1,204.45	1,126.38	78.07	15.427	
12,200.00	12,127.93	15,242.65	10,994.01	42.16	79.18	31.58	190.22	514.43	1,267.84	1,189.76	78.08	16.238	
12,300.00	12,174.23	15,327.56	10,991.99	42.41	80.66	26.38	275.12	513.64	1,308.62	1,230.72	77.90	16.799	
12,400.00	12,207.18	15,390.00	10,990.41	42.64	81.73	23.21	337.53	513.07	1,329.36	1,252.39	76.96	17.272	
12,500.00	12,226.06	15,390.00	10,990.41	42.85	81.73	22.74	337.53	513.07	1,340.08	1,264.60	75.48	17.755	
12,600.00	12,231.93	15,390.00	10,990.41	43.07	81.73	22.61	337.53	513.07	1,345.60	1,271.44	74.15	18.146	
12,700.00	12,232.01	15,390.00	10,990.41	43.31	81.73	22.46	337.53	513.07	1,353.28	1,280.30	72.98	18.543	
12,800.00	12,232.36	15,390.00	10,990.41	46.60	81.73	21.30	337.53	513.07	1,371.53	1,300.43	71.10	19.290	
12,900.00	12,231.44	15,390.00	10,990.41	46.64	81.73	21.14	337.53	513.07	1,398.21	1,327.89	70.32	19.883	
13,000.00	12,231.18	15,390.00	10,990.41	46.69	81.73	20.49	337.53	513.07	1,432.39	1,362.69	69.70	20.550	
13,100.00	12,230.71	15,390.00	10,990.41	46.74	81.73	19.69	337.53	513.07	1,473.41	1,404.14	69.27	21.271	
13,200.00	12,230.03	15,390.00	10,990.41	46.79	81.73	18.72	337.53	513.07	1,520.68	1,451.70	68.98	22.045	
13,300.00	12,229.13	15,390.00	10,990.41	46.86	81.73	17.59	337.53	513.07	1,573.59	1,504.79	68.79	22.874	
13,400.00	12,228.02	15,390.00	10,990.41	46.94	81.73	16.29	337.53	513.07	1,631.53	1,562.85	68.69	23.754	
13,500.00	12,226.71	15,390.00	10,990.41	47.07	81.73	14.82	337.53	513.07	1,693.94	1,625.31	68.63	24.682	
13,600.00	12,225.18	15,390.00	10,990.41	47.30	81.73	13.18	337.53	513.07	1,760.28	1,691.67	68.62	25.654	
13,700.00	12,223.54	15,390.00	10,990.41	47.68	81.73	13.13	337.53	513.07	1,829.89	1,761.29	68.61	26.673	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 139-GYD_CT_C011Ga, 4901-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	12,221.91	15,390.00	10,990.41	48.18	81.73	13.13	337.53	513.07	1,902.22	1,833.64	68.57	27.740	
13,900.00	12,221.16	15,390.00	10,990.41	48.74	81.73	13.35	337.53	513.07	1,977.52	1,908.99	68.53	28.858	
14,000.00	12,220.99	15,390.00	10,990.41	49.34	81.73	13.35	337.53	513.07	2,055.27	1,986.80	68.46	30.020	
14,100.00	12,220.82	15,390.00	10,990.41	49.99	81.73	13.35	337.53	513.07	2,134.87	2,066.48	68.39	31.214	
14,200.00	12,220.64	15,390.00	10,990.41	50.66	81.73	13.35	337.53	513.07	2,216.13	2,147.81	68.32	32.438	
14,300.00	12,220.47	15,390.00	10,990.41	51.36	81.73	13.35	337.53	513.07	2,298.86	2,230.62	68.24	33.688	
14,400.00	12,220.29	15,390.00	10,990.41	52.08	81.73	13.35	337.53	513.07	2,382.92	2,314.76	68.16	34.961	
14,500.00	12,220.12	15,390.00	10,990.41	52.83	81.73	13.35	337.53	513.07	2,468.17	2,400.09	68.08	36.253	
14,600.00	12,219.94	15,390.00	10,990.41	53.60	81.73	13.35	337.53	513.07	2,554.49	2,486.49	68.01	37.563	
14,700.00	12,219.77	15,390.00	10,990.41	54.40	81.73	13.35	337.53	513.07	2,641.78	2,573.84	67.93	38.888	
14,800.00	12,219.59	15,390.00	10,990.41	55.21	81.73	13.35	337.53	513.07	2,729.93	2,662.07	67.86	40.227	
14,900.00	12,219.42	15,390.00	10,990.41	56.04	81.73	13.35	337.53	513.07	2,818.88	2,751.08	67.80	41.577	
15,000.00	12,219.24	15,390.00	10,990.41	56.89	81.73	13.35	337.53	513.07	2,908.54	2,840.81	67.74	42.938	
15,100.00	12,219.07	15,390.00	10,990.41	57.76	81.73	13.35	337.53	513.07	2,998.86	2,931.18	67.68	44.307	
15,200.00	12,218.90	15,390.00	10,990.41	58.64	81.73	13.35	337.53	513.07	3,089.78	3,022.14	67.63	45.683	
15,300.00	12,218.72	15,390.00	10,990.41	59.54	81.73	13.35	337.53	513.07	3,181.24	3,113.65	67.59	47.066	
15,400.00	12,218.55	15,390.00	10,990.41	60.46	81.73	13.35	337.53	513.07	3,273.20	3,205.65	67.55	48.454	
15,500.00	12,218.37	15,390.00	10,990.41	61.39	81.73	13.35	337.53	513.07	3,365.62	3,298.10	67.52	49.847	
15,600.00	12,218.20	15,390.00	10,990.41	62.33	81.73	13.35	337.53	513.07	3,458.46	3,390.97	67.49	51.243	
15,700.00	12,218.02	15,390.00	10,990.41	63.29	81.73	13.35	337.53	513.07	3,551.69	3,484.22	67.47	52.643	
15,800.00	12,217.85	15,390.00	10,990.41	64.25	81.73	13.35	337.53	513.07	3,645.28	3,577.83	67.45	54.044	
15,900.00	12,217.67	15,390.00	10,990.41	65.24	81.73	13.35	337.53	513.07	3,739.20	3,671.76	67.44	55.448	
16,000.00	12,217.50	15,390.00	10,990.41	66.23	81.73	13.35	337.53	513.07	3,833.42	3,766.00	67.43	56.852	
16,100.00	12,217.33	15,390.00	10,990.41	67.23	81.73	13.35	337.53	513.07	3,927.94	3,860.51	67.42	58.257	
16,200.00	12,217.15	15,390.00	10,990.41	68.24	81.73	13.35	337.53	513.07	4,022.72	3,955.29	67.42	59.663	
16,300.00	12,216.98	15,390.00	10,990.41	69.27	81.73	13.35	337.53	513.07	4,117.74	4,050.31	67.43	61.069	
16,400.00	12,216.80	15,390.00	10,990.41	70.30	81.73	13.35	337.53	513.07	4,213.00	4,145.56	67.44	62.474	
16,500.00	12,216.63	15,390.00	10,990.41	71.34	81.73	13.35	337.53	513.07	4,308.47	4,241.02	67.45	63.878	
16,600.00	12,216.45	15,390.00	10,990.41	72.39	81.73	13.35	337.53	513.07	4,404.14	4,336.67	67.46	65.281	
16,700.00	12,216.28	15,390.00	10,990.41	73.45	81.73	13.35	337.53	513.07	4,500.00	4,432.52	67.48	66.683	
16,800.00	12,216.10	15,390.00	10,990.41	74.52	81.73	13.35	337.53	513.07	4,596.04	4,528.53	67.51	68.083	
16,900.00	12,215.93	15,390.00	10,990.41	75.60	81.73	13.35	337.53	513.07	4,692.24	4,624.71	67.53	69.482	
17,000.00	12,215.75	15,390.00	10,990.41	76.68	81.73	13.35	337.53	513.07	4,788.59	4,721.03	67.56	70.878	
17,100.00	12,215.58	15,390.00	10,990.41	77.77	81.73	13.35	337.53	513.07	4,885.10	4,817.51	67.59	72.272	
17,200.00	12,215.41	15,390.00	10,990.41	78.86	81.73	13.35	337.53	513.07	4,981.74	4,914.11	67.63	73.664	
17,300.00	12,215.23	15,390.00	10,990.41	79.97	81.73	13.35	337.53	513.07	5,078.51	5,010.85	67.67	75.053	
17,400.00	12,215.06	15,390.00	10,990.41	81.07	81.73	13.35	337.53	513.07	5,175.41	5,107.70	67.71	76.440	
17,500.00	12,214.88	15,390.00	10,990.41	82.19	81.73	13.35	337.53	513.07	5,272.42	5,204.67	67.75	77.823	
17,600.00	12,214.71	15,390.00	10,990.41	83.31	81.73	13.35	337.53	513.07	5,369.54	5,301.74	67.79	79.204	
17,700.00	12,214.53	15,390.00	10,990.41	84.44	81.73	13.35	337.53	513.07	5,466.76	5,398.92	67.84	80.582	
17,800.00	12,214.36	15,390.00	10,990.41	85.57	81.73	13.35	337.53	513.07	5,564.09	5,496.19	67.89	81.956	
17,900.00	12,214.18	15,390.00	10,990.41	86.70	81.73	13.35	337.53	513.07	5,661.50	5,593.56	67.94	83.327	
18,000.00	12,214.01	15,390.00	10,990.41	87.84	81.73	13.35	337.53	513.07	5,759.01	5,691.01	68.00	84.695	
18,100.00	12,213.83	15,390.00	10,990.41	88.99	81.73	13.35	337.53	513.07	5,856.59	5,788.54	68.05	86.059	
18,200.00	12,213.66	15,390.00	10,990.41	90.14	81.73	13.35	337.53	513.07	5,954.26	5,886.15	68.11	87.419	
18,300.00	12,213.49	15,390.00	10,990.41	91.30	81.73	13.35	337.53	513.07	6,052.01	5,983.84	68.17	88.776	
18,400.00	12,213.31	15,390.00	10,990.41	92.45	81.73	13.35	337.53	513.07	6,149.83	6,081.59	68.23	90.129	
18,500.00	12,213.14	15,390.00	10,990.41	93.62	81.73	13.35	337.53	513.07	6,247.71	6,179.41	68.30	91.478	
18,600.00	12,212.96	15,390.00	10,990.41	94.78	81.73	13.35	337.53	513.07	6,345.66	6,277.30	68.36	92.824	
18,700.00	12,212.79	15,390.00	10,990.41	95.95	81.73	13.35	337.53	513.07	6,443.68	6,375.25	68.43	94.165	
18,800.00	12,212.61	15,390.00	10,990.41	97.13	81.73	13.35	337.53	513.07	6,541.75	6,473.26	68.50	95.502	
18,900.00	12,212.44	15,390.00	10,990.41	98.31	81.73	13.35	337.53	513.07	6,639.89	6,571.32	68.57	96.836	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 139-GYD_CT_C011Ga, 4901-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,000.00	12,212.26	15,390.00	10,990.41	99.49	81.73	13.35	337.53	513.07	6,738.08	6,669.43	68.64	98.165	
19,100.00	12,212.09	15,390.00	10,990.41	100.67	81.73	13.35	337.53	513.07	6,836.32	6,767.60	68.71	99.490	
19,200.00	12,211.91	15,390.00	10,990.41	101.86	81.73	13.35	337.53	513.07	6,934.61	6,865.82	68.79	100.811	
19,300.00	12,211.74	15,390.00	10,990.41	103.05	81.73	13.35	337.53	513.07	7,032.94	6,964.08	68.86	102.127	
19,400.00	12,211.57	15,390.00	10,990.41	104.24	81.73	13.35	337.53	513.07	7,131.33	7,062.39	68.94	103.439	
19,500.00	12,211.39	15,390.00	10,990.41	105.44	81.73	13.35	337.53	513.07	7,229.76	7,160.74	69.02	104.747	
19,600.00	12,211.22	15,390.00	10,990.41	106.64	81.73	13.35	337.53	513.07	7,328.23	7,259.13	69.10	106.051	
19,700.00	12,211.04	15,390.00	10,990.41	107.84	81.73	13.35	337.53	513.07	7,426.74	7,357.56	69.18	107.350	
19,800.00	12,210.87	15,390.00	10,990.41	109.04	81.73	13.35	337.53	513.07	7,525.29	7,456.03	69.27	108.645	
19,900.00	12,210.69	15,390.00	10,990.41	110.25	81.73	13.35	337.53	513.07	7,623.88	7,554.54	69.35	109.935	
20,000.00	12,210.52	15,390.00	10,990.41	111.46	81.73	13.35	337.53	513.07	7,722.51	7,653.08	69.43	111.220	
20,100.00	12,210.34	15,390.00	10,990.41	112.67	81.73	13.35	337.53	513.07	7,821.17	7,751.65	69.52	112.502	
20,200.00	12,210.17	15,390.00	10,990.41	113.88	81.73	13.35	337.53	513.07	7,919.87	7,850.26	69.61	113.778	
20,300.00	12,209.99	15,390.00	10,990.41	115.10	81.73	13.35	337.53	513.07	8,018.59	7,948.90	69.70	115.050	
20,400.00	12,209.82	15,390.00	10,990.41	116.31	81.73	13.35	337.53	513.07	8,117.35	8,047.56	69.79	116.318	
20,500.00	12,209.65	15,390.00	10,990.41	117.53	81.73	13.35	337.53	513.07	8,216.14	8,146.26	69.88	117.581	
20,600.00	12,209.47	15,390.00	10,990.41	118.75	81.73	13.35	337.53	513.07	8,314.95	8,244.99	69.97	118.839	
20,700.00	12,209.30	15,390.00	10,990.41	119.98	81.73	13.35	337.53	513.07	8,413.80	8,343.74	70.06	120.092	
20,800.00	12,209.12	15,390.00	10,990.41	121.20	81.73	13.35	337.53	513.07	8,512.67	8,442.52	70.15	121.341	
20,900.00	12,208.95	15,390.00	10,990.41	122.43	81.73	13.35	337.53	513.07	8,611.57	8,541.32	70.25	122.585	
21,000.00	12,208.77	15,390.00	10,990.41	123.66	81.73	13.35	337.53	513.07	8,710.49	8,640.15	70.35	123.825	
21,100.00	12,208.60	15,390.00	10,990.41	124.89	81.73	13.35	337.53	513.07	8,809.44	8,739.00	70.44	125.059	
21,200.00	12,208.42	15,390.00	10,990.41	126.12	81.73	13.35	337.53	513.07	8,908.41	8,837.87	70.54	126.289	
21,300.00	12,208.25	15,390.00	10,990.41	127.35	81.73	13.35	337.53	513.07	9,007.40	8,936.77	70.64	127.515	
21,400.00	12,208.07	15,390.00	10,990.41	128.59	81.73	13.35	337.53	513.07	9,106.42	9,035.68	70.74	128.735	
21,500.00	12,207.90	15,390.00	10,990.41	129.82	81.73	13.35	337.53	513.07	9,205.46	9,134.62	70.84	129.951	
21,600.00	12,207.73	15,390.00	10,990.41	131.06	81.73	13.35	337.53	513.07	9,304.51	9,233.57	70.94	131.162	
21,700.00	12,207.55	15,390.00	10,990.41	132.30	81.73	13.35	337.53	513.07	9,403.59	9,332.55	71.04	132.368	
21,800.00	12,207.38	15,390.00	10,990.41	133.54	81.73	13.35	337.53	513.07	9,502.69	9,431.54	71.14	133.569	
21,900.00	12,207.20	15,390.00	10,990.41	134.78	81.73	13.35	337.53	513.07	9,601.80	9,530.56	71.25	134.766	
22,000.00	12,207.03	15,390.00	10,990.41	136.03	81.73	13.35	337.53	513.07	9,700.94	9,629.58	71.35	135.958	
22,100.00	12,206.85	15,390.00	10,990.41	137.27	81.73	13.35	337.53	513.07	9,800.09	9,728.63	71.46	137.145	
22,200.00	12,206.68	15,390.00	10,990.41	138.52	81.73	13.35	337.53	513.07	9,899.26	9,827.69	71.56	138.327	
22,300.00	12,206.50	15,390.00	10,990.41	139.76	81.73	13.35	337.53	513.07	9,998.44	9,926.77	71.67	139.504	
22,400.00	12,206.33	15,390.00	10,990.41	141.01	81.73	13.35	337.53	513.07	10,097.64	10,025.86	71.78	140.677	
22,500.00	12,206.16	15,390.00	10,990.41	142.26	81.73	13.35	337.53	513.07	10,196.86	10,124.97	71.89	141.844	
22,600.00	12,205.98	15,390.00	10,990.41	143.51	81.73	13.35	337.53	513.07	10,296.09	10,224.09	72.00	143.007	
22,700.00	12,205.81	15,390.00	10,990.41	144.76	81.73	13.35	337.53	513.07	10,395.34	10,323.23	72.11	144.165	
22,800.00	12,205.63	15,390.00	10,990.41	146.02	81.73	13.35	337.53	513.07	10,494.60	10,422.38	72.22	145.318	
22,900.00	12,205.46	15,390.00	10,990.41	147.27	81.73	13.35	337.53	513.07	10,593.87	10,521.54	72.33	146.467	
23,000.00	12,205.28	15,390.00	10,990.41	148.52	81.73	13.35	337.53	513.07	10,693.16	10,620.72	72.44	147.610	
23,100.00	12,205.11	15,390.00	10,990.41	149.78	81.73	13.35	337.53	513.07	10,792.46	10,719.91	72.55	148.749	
23,200.00	12,204.93	15,390.00	10,990.41	151.04	81.73	13.35	337.53	513.07	10,891.78	10,819.11	72.67	149.883	
23,251.42	12,204.84	15,390.00	10,990.41	151.68	81.73	13.35	337.53	513.07	10,942.85	10,870.12	72.73	150.464	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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COMPASS 5000.14 Build 85F



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 111-MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	20.50	1.00	0.00	-170.11	-4,297.79	-749.67	4,362.73				
100.00	100.00	126.16	146.66	1.01	0.13	176.03	-4,297.04	-749.57	4,362.77	4,361.63	1.14	3,832.941	
200.00	199.98	223.27	243.75	1.08	0.34	-156.67	-4,296.15	-748.80	4,363.30	4,361.88	1.42	3,074.595	
300.00	299.96	321.49	341.97	1.26	0.54	-141.86	-4,295.36	-747.73	4,363.97	4,362.16	1.80	2,420.386	
400.00	399.95	418.30	438.78	1.51	0.74	173.77	-4,294.60	-746.79	4,364.71	4,362.47	2.25	1,942.238	
500.00	499.92	523.76	544.23	1.79	0.96	133.29	-4,293.78	-745.80	4,365.61	4,362.86	2.75	1,588.332	
600.00	599.89	633.22	653.67	2.09	1.19	127.09	-4,292.78	-744.88	4,366.27	4,362.99	3.28	1,331.057	
700.00	699.85	721.00	741.45	2.41	1.38	122.23	-4,291.83	-744.11	4,366.59	4,362.81	3.78	1,154.600	
800.00	799.82	813.39	833.84	2.74	1.57	117.43	-4,291.14	-743.35	4,367.08	4,362.78	4.30	1,015.221	
900.00	899.80	897.69	918.13	3.07	1.75	97.66	-4,290.64	-742.98	4,366.96	4,362.15	4.81	907.918	
1,000.00	999.80	1,004.01	1,024.45	3.40	1.97	87.14	-4,290.39	-742.86	4,366.73	4,361.36	5.37	813.627	
1,100.00	1,099.80	1,133.32	1,153.75	3.74	2.24	94.91	-4,289.22	-742.44	4,365.76	4,359.78	5.97	730.813	
1,200.00	1,199.79	1,216.50	1,236.93	4.08	2.41	130.63	-4,288.40	-742.18	4,364.89	4,358.40	6.49	672.389	
1,300.00	1,299.79	1,336.30	1,356.72	4.43	2.67	-179.60	-4,287.07	-741.87	4,364.23	4,357.14	7.09	615.601	
1,400.00	1,399.79	1,442.46	1,462.87	4.77	2.89	-143.01	-4,285.64	-741.60	4,363.51	4,355.85	7.66	569.913	
1,500.00	1,499.78	1,550.57	1,570.97	5.11	3.12	-126.57	-4,284.02	-741.28	4,362.83	4,354.60	8.23	530.362	
1,600.00	1,599.77	1,651.38	1,671.77	5.45	3.34	-110.52	-4,282.34	-740.90	4,362.01	4,353.23	8.78	496.920	
1,700.00	1,699.75	1,751.54	1,771.91	5.79	3.55	-97.37	-4,280.79	-740.54	4,360.86	4,351.53	9.33	467.635	
1,800.00	1,799.74	1,850.56	1,870.91	6.13	3.76	-100.45	-4,279.14	-740.19	4,359.37	4,349.50	9.87	441.603	
1,900.00	1,899.73	1,952.53	1,972.87	6.47	3.97	-100.17	-4,277.54	-739.87	4,358.05	4,347.63	10.43	417.973	
2,000.00	1,999.72	2,061.47	2,081.79	6.81	4.21	-79.15	-4,275.62	-739.54	4,356.30	4,345.30	11.00	396.035	
2,100.00	2,099.71	2,169.09	2,189.40	7.15	4.44	-48.45	-4,273.53	-739.15	4,353.82	4,342.25	11.57	376.289	
2,200.00	2,199.71	2,269.74	2,290.03	7.49	4.65	-68.97	-4,271.47	-738.79	4,351.21	4,339.09	12.13	358.858	
2,300.00	2,299.70	2,369.58	2,389.84	7.83	4.87	-73.35	-4,269.42	-738.53	4,348.78	4,336.10	12.68	342.994	
2,400.00	2,399.69	2,468.89	2,489.13	8.18	5.08	-61.13	-4,267.36	-738.41	4,346.27	4,333.04	13.23	328.440	
2,500.00	2,499.69	2,577.94	2,598.16	8.52	5.31	-47.73	-4,264.95	-738.43	4,343.49	4,329.68	13.81	314.524	
2,600.00	2,599.68	2,680.65	2,700.84	8.87	5.53	-57.01	-4,262.58	-738.36	4,340.69	4,326.32	14.37	302.046	
2,700.00	2,699.68	2,785.74	2,805.89	9.21	5.76	-76.87	-4,260.05	-738.11	4,337.99	4,323.05	14.94	290.387	
2,800.00	2,799.68	2,887.95	2,908.07	9.56	5.98	-110.46	-4,257.53	-738.00	4,335.57	4,320.07	15.50	279.627	
2,900.00	2,899.68	2,991.72	3,011.81	9.92	6.20	-142.46	-4,254.86	-737.80	4,333.34	4,317.26	16.08	269.550	
3,000.00	2,999.68	3,091.78	3,111.84	10.27	6.41	-151.20	-4,252.26	-737.62	4,331.28	4,314.64	16.64	260.306	
3,100.00	3,099.67	3,192.01	3,212.03	10.62	6.62	-145.19	-4,249.67	-737.36	4,329.51	4,312.30	17.20	251.701	
3,200.00	3,199.67	3,292.12	3,312.11	10.98	6.84	-148.33	-4,247.09	-737.06	4,327.75	4,309.99	17.76	243.639	
3,300.00	3,299.66	3,397.28	3,417.23	11.33	7.06	-163.57	-4,244.34	-736.67	4,325.91	4,307.57	18.34	235.893	
3,400.00	3,399.66	3,507.91	3,527.82	11.68	7.30	-176.41	-4,241.23	-736.25	4,324.15	4,305.23	18.93	228.432	
3,500.00	3,499.65	3,608.76	3,628.62	12.04	7.52	-179.22	-4,238.26	-735.77	4,322.11	4,302.62	19.50	221.673	
3,600.00	3,599.65	3,715.31	3,735.12	12.39	7.75	-134.15	-4,235.03	-735.29	4,319.38	4,299.31	20.08	215.146	
3,700.00	3,699.65	3,813.44	3,833.20	12.74	7.96	-151.41	-4,231.96	-734.95	4,316.72	4,296.08	20.64	209.159	
3,800.00	3,799.65	3,899.00	3,918.73	13.10	8.14	-135.17	-4,229.48	-734.63	4,314.31	4,293.14	21.17	203.795	
3,900.00	3,899.65	3,998.82	4,018.51	13.45	8.35	-18.37	-4,226.76	-734.19	4,311.43	4,289.71	21.72	198.482	
4,000.00	3,999.64	4,098.52	4,118.17	13.79	8.57	-46.41	-4,224.04	-733.82	4,308.10	4,285.82	22.27	193.415	
4,100.00	4,099.64	4,198.10	4,217.71	14.13	8.78	-48.81	-4,221.31	-733.58	4,304.65	4,281.83	22.83	188.563	
4,200.00	4,199.64	4,295.44	4,315.02	14.48	8.99	17.85	-4,218.70	-733.05	4,301.48	4,278.10	23.38	183.994	
4,300.00	4,299.62	4,382.27	4,401.82	14.82	9.17	66.68	-4,216.62	-732.24	4,298.20	4,274.30	23.90	179.836	
4,400.00	4,399.56	4,484.52	4,504.04	15.16	9.38	72.60	-4,214.32	-731.02	4,294.58	4,270.12	24.45	175.625	
4,500.00	4,499.52	4,579.68	4,599.16	15.50	9.59	77.06	-4,212.25	-729.68	4,291.56	4,266.56	24.99	171.706	
4,600.00	4,599.48	4,669.83	4,689.28	15.84	9.78	74.10	-4,210.49	-728.14	4,288.61	4,263.09	25.52	168.025	
4,700.00	4,699.36	4,758.00	4,777.42	16.19	9.96	71.55	-4,209.06	-726.27	4,285.21	4,259.16	26.05	164.496	
4,800.00	4,799.16	4,857.41	4,876.79	16.53	10.17	72.46	-4,207.63	-723.93	4,281.35	4,254.75	26.60	160.947	
4,900.00	4,899.01	4,962.50	4,981.85	16.87	10.40	74.89	-4,206.11	-721.46	4,278.03	4,250.86	27.17	157.467	
5,000.00	4,998.96	5,061.61	5,100.90	17.22	10.66	71.20	-4,203.94	-718.76	4,274.88	4,247.11	27.77	153.962	
5,100.00	5,098.90	5,183.57	5,202.82	17.56	10.87	72.26	-4,201.78	-716.63	4,271.37	4,243.05	28.33	150.791	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 111-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,198.84	5,281.94	5,301.14	17.91	11.09	69.34	-4,199.83	-714.40	4,267.88	4,239.00	28.88	147.781	
5,300.00	5,298.82	5,397.13	5,416.27	18.26	11.34	103.64	-4,197.32	-711.33	4,264.80	4,235.33	29.47	144.705	
5,400.00	5,398.81	5,493.83	5,512.90	18.60	11.55	-128.57	-4,195.08	-708.58	4,262.84	4,232.81	30.03	141.952	
5,500.00	5,498.79	5,592.43	5,611.43	18.96	11.76	-126.09	-4,192.99	-705.62	4,261.34	4,230.75	30.59	139.303	
5,600.00	5,598.78	5,704.18	5,723.11	19.31	12.00	-118.48	-4,190.41	-702.42	4,259.44	4,228.26	31.18	136.620	
5,700.00	5,698.77	5,797.52	5,816.39	19.66	12.20	-120.06	-4,188.09	-700.04	4,257.24	4,225.51	31.73	134.192	
5,800.00	5,798.76	5,907.02	5,925.82	20.01	12.44	-128.10	-4,185.43	-697.27	4,255.14	4,222.83	32.31	131.713	
5,900.00	5,898.75	5,999.05	6,017.79	20.36	12.63	-129.88	-4,183.15	-694.73	4,252.97	4,220.11	32.85	129.452	
6,000.00	5,998.74	6,105.01	6,123.68	20.72	12.86	-131.04	-4,180.54	-692.05	4,251.03	4,217.60	33.43	127.172	
6,100.00	6,098.73	6,193.79	6,212.41	21.07	13.05	-131.02	-4,178.36	-690.04	4,249.23	4,215.27	33.97	125.097	
6,200.00	6,198.72	6,282.48	6,301.05	21.42	13.24	-131.63	-4,176.41	-688.07	4,247.72	4,213.21	34.51	123.100	
6,300.00	6,298.70	6,399.05	6,417.57	21.77	13.49	-130.07	-4,173.83	-685.17	4,246.28	4,211.18	35.11	120.958	
6,400.00	6,398.69	6,489.64	6,508.10	22.13	13.69	-78.14	-4,171.73	-683.04	4,244.32	4,208.67	35.65	119.057	
6,500.00	6,498.67	6,594.98	6,613.39	22.47	13.91	-49.55	-4,169.24	-680.72	4,240.50	4,204.28	36.22	117.077	
6,600.00	6,598.65	6,679.01	6,697.38	22.82	14.09	-12.01	-4,167.43	-678.85	4,236.53	4,199.79	36.74	115.297	
6,700.00	6,698.64	6,791.62	6,809.94	23.16	14.33	75.69	-4,164.96	-676.41	4,233.51	4,196.19	37.32	113.424	
6,800.00	6,798.64	6,888.91	6,907.17	23.51	14.54	101.92	-4,162.76	-674.14	4,230.88	4,193.01	37.88	111.702	
6,900.00	6,898.64	15,028.27	11,010.86	23.86	78.73	-165.92	45.22	-793.14	4,190.94	4,141.67	49.27	85.067	
7,000.00	6,998.64	15,028.19	11,010.86	24.20	78.73	170.46	45.13	-793.14	4,092.97	4,043.32	49.66	82.427	
7,100.00	7,098.63	15,027.84	11,010.86	24.55	78.72	130.83	44.78	-793.15	3,995.07	3,945.01	50.06	79.813	
7,200.00	7,198.63	15,027.15	11,010.86	24.89	78.71	127.22	44.09	-793.18	3,897.27	3,846.81	50.47	77.223	
7,300.00	7,298.63	15,026.39	11,010.86	25.23	78.70	132.20	43.33	-793.21	3,799.62	3,748.72	50.90	74.653	
7,400.00	7,398.63	15,025.72	11,010.86	25.58	78.69	123.96	42.67	-793.23	3,702.06	3,650.72	51.34	72.103	
7,500.00	7,498.62	15,024.94	11,010.87	25.92	78.67	115.80	41.89	-793.26	3,604.64	3,552.83	51.81	69.575	
7,600.00	7,598.62	15,023.74	11,010.87	26.27	78.65	110.41	40.69	-793.30	3,507.36	3,455.07	52.29	67.072	
7,700.00	7,698.61	15,022.06	11,010.87	26.62	78.63	112.52	39.00	-793.37	3,410.28	3,357.48	52.80	64.593	
7,800.00	7,798.59	15,020.36	11,010.87	26.96	78.60	112.42	37.31	-793.43	3,313.38	3,260.05	53.32	62.136	
7,900.00	7,898.58	15,018.73	11,010.87	27.31	78.57	123.31	35.68	-793.49	3,216.67	3,162.79	53.88	59.698	
8,000.00	7,998.58	15,018.55	11,010.87	27.66	78.57	-122.43	35.49	-793.49	3,120.13	3,065.65	54.48	57.273	
8,100.00	8,098.58	15,019.17	11,010.87	28.01	78.58	-101.84	36.12	-793.47	3,023.74	2,968.63	55.11	54.866	
8,200.00	8,198.58	15,019.70	11,010.87	28.36	78.59	-97.80	36.65	-793.45	2,927.58	2,871.80	55.78	52.486	
8,300.00	8,298.58	15,019.84	11,010.87	28.71	78.59	-17.26	36.79	-793.45	2,831.64	2,775.16	56.48	50.136	
8,400.00	8,398.57	15,019.63	11,010.87	29.06	78.59	35.14	36.58	-793.45	2,735.91	2,678.69	57.22	47.816	
8,500.00	8,498.57	15,019.08	11,010.87	29.40	78.58	51.75	36.02	-793.48	2,640.46	2,582.46	58.00	45.526	
8,600.00	8,598.57	15,018.26	11,010.87	29.75	78.57	48.64	35.21	-793.51	2,545.32	2,486.49	58.83	43.266	
8,700.00	8,698.56	15,017.32	11,010.87	30.10	78.55	45.82	34.27	-793.54	2,450.49	2,390.78	59.72	41.036	
8,800.00	8,798.55	15,016.30	11,010.87	30.45	78.53	38.32	33.25	-793.58	2,356.01	2,295.35	60.66	38.838	
8,900.00	8,898.54	15,015.32	11,010.88	30.80	78.52	41.98	32.27	-793.61	2,262.00	2,200.31	61.69	36.670	
9,000.00	8,998.54	15,014.40	11,010.88	31.15	78.50	47.13	31.35	-793.65	2,168.60	2,105.80	62.80	34.533	
9,100.00	9,098.53	15,013.55	11,010.88	31.49	78.49	56.37	30.50	-793.68	2,075.90	2,011.89	64.01	32.430	
9,200.00	9,198.53	15,012.44	11,010.88	31.84	78.47	66.52	29.39	-793.72	1,983.95	1,918.61	65.34	30.364	
9,300.00	9,298.52	15,011.32	11,010.88	32.19	78.45	83.37	28.28	-793.76	1,892.88	1,826.09	66.80	28.338	
9,400.00	9,398.52	15,010.50	11,010.88	32.54	78.44	108.58	27.46	-793.79	1,803.01	1,734.59	68.42	26.354	
9,500.00	9,498.51	15,009.36	11,010.88	32.89	78.42	108.90	26.31	-793.83	1,714.28	1,644.08	70.20	24.420	
9,600.00	9,598.51	15,009.03	11,010.88	33.23	78.42	-142.19	25.99	-793.85	1,626.90	1,554.71	72.18	22.539	
9,700.00	9,698.51	15,009.72	11,010.88	33.58	78.43	-104.27	26.67	-793.82	1,541.09	1,466.70	74.39	20.717	
9,800.00	9,798.50	15,010.93	11,010.88	33.93	78.45	-86.20	27.88	-793.78	1,456.91	1,380.08	76.83	18.963	
9,900.00	9,898.48	15,012.50	11,010.88	34.28	78.47	-89.57	29.45	-793.72	1,374.72	1,295.19	79.53	17.286	
10,000.00	9,998.47	15,013.81	11,010.88	34.63	78.49	-141.65	30.77	-793.67	1,295.41	1,212.87	82.54	15.695	
10,100.00	10,098.45	15,014.12	11,010.88	34.98	78.50	177.66	31.08	-793.66	1,220.13	1,134.24	85.89	14.205	
10,200.00	10,198.42	15,013.90	11,010.88	35.33	78.49	-174.80	30.86	-793.67	1,148.90	1,059.34	89.56	12.828	
10,300.00	10,298.42	15,014.02	11,010.88	35.68	78.50	-154.41	30.97	-793.66	1,081.11	987.64	93.47	11.566	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 111-MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.00	10,398.42	15,014.17	11,010.88	36.03	78.50	-60.99	31.12	-793.66	1,018.12	920.54	97.59	10.433	
10,500.00	10,498.42	15,013.91	11,010.88	36.38	78.49	36.65	30.86	-793.67	960.88	859.08	101.80	9.439	
10,600.00	10,598.41	15,013.05	11,010.88	36.72	78.48	48.44	30.00	-793.70	910.73	804.78	105.95	8.596	
10,700.00	10,698.40	15,011.74	11,010.88	37.07	78.46	71.44	28.69	-793.75	869.46	759.66	109.80	7.919	
10,800.00	10,798.39	15,010.25	11,010.88	37.42	78.43	56.69	27.21	-793.80	837.99	724.96	113.03	7.414	
10,900.00	10,898.37	15,008.48	11,010.88	37.77	78.41	55.11	25.43	-793.87	817.36	702.05	115.32	7.088	
11,000.00	10,998.36	15,007.43	11,010.88	38.12	78.39	11.82	24.39	-793.91	808.34	691.92	116.42	6.944	
11,025.48	11,023.84	15,007.35	11,010.88	38.21	78.39	5.42	24.31	-793.91	807.94	691.45	116.49	6.936	CC, ES, SF
11,100.00	11,098.34	15,007.56	11,010.88	38.47	78.39	-11.73	24.52	-793.90	811.24	695.03	116.21	6.981	
11,200.00	11,198.33	15,007.63	11,010.88	38.82	78.39	-2.86	24.59	-793.90	826.51	711.78	114.73	7.204	
11,300.00	11,298.32	15,007.69	11,010.88	39.17	78.39	-21.25	24.64	-793.90	853.68	741.47	112.21	7.608	
11,400.00	11,398.31	15,008.33	11,010.88	39.52	78.40	-42.33	25.28	-793.87	891.47	782.48	108.99	8.179	
11,500.00	11,498.30	15,009.55	11,010.88	39.87	78.42	-44.91	26.51	-793.83	938.07	832.68	105.38	8.902	
11,600.00	11,598.26	15,011.28	11,010.88	40.22	78.45	-40.55	28.23	-793.76	992.18	890.52	101.66	9.760	
11,700.00	11,698.13	15,015.19	11,010.88	40.57	78.52	-75.49	32.14	-793.62	1,052.73	954.67	98.06	10.736	
11,800.00	11,797.26	15,027.47	11,010.86	40.92	78.72	-62.63	44.41	-793.17	1,118.38	1,023.58	94.80	11.797	
11,900.00	11,894.04	15,049.14	11,010.83	41.25	79.07	-46.73	66.06	-792.37	1,181.24	1,089.55	91.69	12.883	
12,000.00	11,984.36	15,087.59	11,010.77	41.58	79.70	-43.68	104.50	-790.96	1,238.80	1,149.87	88.93	13.930	
12,100.00	12,063.58	15,146.43	11,010.71	41.88	80.66	-40.26	163.29	-788.78	1,291.27	1,204.38	86.89	14.860	
12,200.00	12,127.93	15,225.15	11,010.80	42.16	81.95	-36.93	241.96	-785.86	1,336.78	1,251.02	85.76	15.587	
12,300.00	12,174.23	15,300.00	11,011.02	42.41	83.17	-35.30	316.76	-783.07	1,376.71	1,290.99	85.72	16.061	
12,400.00	12,207.18	15,300.00	11,011.02	42.64	83.17	-32.98	316.76	-783.07	1,420.83	1,334.67	86.16	16.491	
12,500.00	12,226.06	15,300.00	11,011.02	42.85	83.17	-30.66	316.76	-783.07	1,462.93	1,375.85	87.08	16.800	
12,600.00	12,231.93	15,300.00	11,011.02	43.07	83.17	-29.22	316.76	-783.07	1,501.13	1,412.89	88.23	17.013	
12,700.00	12,232.01	15,300.00	11,011.02	43.31	83.17	-29.62	316.76	-783.07	1,540.22	1,450.84	89.38	17.232	
12,800.00	12,232.36	15,300.00	11,011.02	46.60	83.17	-32.25	316.76	-783.07	1,581.18	1,491.91	89.26	17.714	
12,900.00	12,231.44	15,300.00	11,011.02	46.64	83.17	-32.57	316.76	-783.07	1,622.85	1,533.16	89.70	18.093	
13,000.00	12,231.18	15,300.00	11,011.02	46.69	83.17	-33.36	316.76	-783.07	1,669.37	1,579.35	90.02	18.545	
13,100.00	12,230.71	15,300.00	11,011.02	46.74	83.17	-34.20	316.76	-783.07	1,718.79	1,628.60	90.19	19.057	
13,200.00	12,230.03	15,300.00	11,011.02	46.79	83.17	-35.09	316.76	-783.07	1,770.82	1,680.60	90.22	19.629	
13,300.00	12,229.13	15,300.00	11,011.02	46.86	83.17	-36.03	316.76	-783.07	1,825.19	1,735.08	90.11	20.256	
13,400.00	12,228.02	15,300.00	11,011.02	46.94	83.17	-37.02	316.76	-783.07	1,881.63	1,791.76	89.88	20.936	
13,500.00	12,226.71	15,300.00	11,011.02	47.07	83.17	-38.04	316.76	-783.07	1,939.92	1,850.39	89.54	21.666	
13,600.00	12,225.18	15,300.00	11,011.02	47.30	83.17	-39.09	316.76	-783.07	1,999.84	1,910.74	89.10	22.445	
13,700.00	12,223.54	15,300.00	11,011.02	47.68	83.17	-39.12	316.76	-783.07	2,061.98	1,973.37	88.61	23.270	
13,800.00	12,221.91	15,300.00	11,011.02	48.18	83.17	-39.12	316.76	-783.07	2,127.01	2,038.88	88.12	24.137	
13,900.00	12,221.16	15,300.00	11,011.02	48.74	83.17	-39.61	316.76	-783.07	2,195.17	2,107.54	87.63	25.051	
14,000.00	12,220.99	15,300.00	11,011.02	49.34	83.17	-39.61	316.76	-783.07	2,266.00	2,178.86	87.14	26.005	
14,100.00	12,220.82	15,300.00	11,011.02	49.99	83.17	-39.61	316.76	-783.07	2,338.96	2,252.31	86.66	26.991	
14,200.00	12,220.64	15,300.00	11,011.02	50.66	83.17	-39.61	316.76	-783.07	2,413.86	2,327.67	86.19	28.006	
14,300.00	12,220.47	15,300.00	11,011.02	51.36	83.17	-39.61	316.76	-783.07	2,490.53	2,404.78	85.74	29.046	
14,400.00	12,220.29	15,300.00	11,011.02	52.08	83.17	-39.61	316.76	-783.07	2,568.80	2,483.48	85.31	30.110	
14,500.00	12,220.12	15,300.00	11,011.02	52.83	83.17	-39.61	316.76	-783.07	2,648.53	2,563.63	84.90	31.195	
14,600.00	12,219.94	15,300.00	11,011.02	53.60	83.17	-39.61	316.76	-783.07	2,729.60	2,645.09	84.51	32.299	
14,700.00	12,219.77	15,300.00	11,011.02	54.40	83.17	-39.61	316.76	-783.07	2,811.89	2,727.75	84.14	33.420	
14,800.00	12,219.59	15,300.00	11,011.02	55.21	83.17	-39.61	316.76	-783.07	2,895.29	2,811.50	83.79	34.556	
14,900.00	12,219.42	15,300.00	11,011.02	56.04	83.17	-39.61	316.76	-783.07	2,979.71	2,896.26	83.45	35.706	
15,000.00	12,219.24	15,300.00	11,011.02	56.89	83.17	-39.61	316.76	-783.07	3,065.07	2,981.94	83.14	36.868	
15,100.00	12,219.07	15,300.00	11,011.02	57.76	83.17	-39.61	316.76	-783.07	3,151.30	3,068.46	82.84	38.041	
15,200.00	12,218.90	15,300.00	11,011.02	58.64	83.17	-39.61	316.76	-783.07	3,238.31	3,155.75	82.56	39.224	
15,300.00	12,218.72	15,300.00	11,011.02	59.54	83.17	-39.61	316.76	-783.07	3,326.06	3,243.76	82.30	40.415	
15,400.00	12,218.55	15,300.00	11,011.02	60.46	83.17	-39.61	316.76	-783.07	3,414.48	3,332.42	82.05	41.613	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Triste Draw 25 Federal - 2H - OH - Surveys												Offset Site Error:	0.00 usft
Survey Program: 111-MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toelface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	12,218.37	15,300.00	11,011.02	61.39	83.17	-39.61	316.76	-783.07	3,503.52	3,421.70	81.82	42.818	
15,600.00	12,218.20	15,300.00	11,011.02	62.33	83.17	-39.61	316.76	-783.07	3,593.14	3,511.53	81.61	44.029	
15,700.00	12,218.02	15,300.00	11,011.02	63.29	83.17	-39.61	316.76	-783.07	3,683.29	3,601.88	81.41	45.244	
15,800.00	12,217.85	15,300.00	11,011.02	64.25	83.17	-39.61	316.76	-783.07	3,773.94	3,692.72	81.22	46.464	
15,900.00	12,217.67	15,300.00	11,011.02	65.24	83.17	-39.61	316.76	-783.07	3,865.05	3,784.00	81.05	47.687	
16,000.00	12,217.50	15,300.00	11,011.02	66.23	83.17	-39.61	316.76	-783.07	3,956.59	3,875.70	80.89	48.914	
16,100.00	12,217.33	15,300.00	11,011.02	67.23	83.17	-39.61	316.76	-783.07	4,048.53	3,967.79	80.74	50.142	
16,200.00	12,217.15	15,300.00	11,011.02	68.24	83.17	-39.61	316.76	-783.07	4,140.85	4,060.24	80.60	51.373	
16,300.00	12,216.98	15,300.00	11,011.02	69.27	83.17	-39.61	316.76	-783.07	4,233.51	4,153.03	80.48	52.605	
16,400.00	12,216.80	15,300.00	11,011.02	70.30	83.17	-39.61	316.76	-783.07	4,326.50	4,246.14	80.36	53.838	
16,500.00	12,216.63	15,300.00	11,011.02	71.34	83.17	-39.61	316.76	-783.07	4,419.79	4,339.54	80.25	55.072	
16,600.00	12,216.45	15,300.00	11,011.02	72.39	83.17	-39.61	316.76	-783.07	4,513.38	4,433.22	80.16	56.307	
16,700.00	12,216.28	15,300.00	11,011.02	73.45	83.17	-39.61	316.76	-783.07	4,607.23	4,527.16	80.07	57.541	
16,800.00	12,216.10	15,300.00	11,011.02	74.52	83.17	-39.61	316.76	-783.07	4,701.34	4,621.35	79.99	58.775	
16,900.00	12,215.93	15,300.00	11,011.02	75.60	83.17	-39.61	316.76	-783.07	4,795.68	4,715.76	79.92	60.009	
17,000.00	12,215.75	15,300.00	11,011.02	76.68	83.17	-39.61	316.76	-783.07	4,890.25	4,810.40	79.85	61.242	
17,100.00	12,215.58	15,300.00	11,011.02	77.77	83.17	-39.61	316.76	-783.07	4,985.03	4,905.24	79.79	62.474	
17,200.00	12,215.41	15,300.00	11,011.02	78.86	83.17	-39.61	316.76	-783.07	5,080.01	5,000.27	79.74	63.704	
17,300.00	12,215.23	15,300.00	11,011.02	79.97	83.17	-39.61	316.76	-783.07	5,175.18	5,095.48	79.70	64.934	
17,400.00	12,215.06	15,300.00	11,011.02	81.07	83.17	-39.61	316.76	-783.07	5,270.53	5,190.87	79.66	66.162	
17,500.00	12,214.88	15,300.00	11,011.02	82.19	83.17	-39.61	316.76	-783.07	5,366.05	5,286.42	79.63	67.388	
17,600.00	12,214.71	15,300.00	11,011.02	83.31	83.17	-39.61	316.76	-783.07	5,461.73	5,382.13	79.60	68.613	
17,700.00	12,214.53	15,300.00	11,011.02	84.44	83.17	-39.61	316.76	-783.07	5,557.56	5,477.98	79.58	69.835	
17,800.00	12,214.36	15,300.00	11,011.02	85.57	83.17	-39.61	316.76	-783.07	5,653.54	5,573.97	79.57	71.055	
17,900.00	12,214.18	15,300.00	11,011.02	86.70	83.17	-39.61	316.76	-783.07	5,749.65	5,670.10	79.55	72.274	
18,000.00	12,214.01	15,300.00	11,011.02	87.84	83.17	-39.61	316.76	-783.07	5,845.89	5,766.35	79.55	73.490	
18,100.00	12,213.83	15,300.00	11,011.02	88.99	83.17	-39.61	316.76	-783.07	5,942.26	5,862.72	79.55	74.703	
18,200.00	12,213.66	15,300.00	11,011.02	90.14	83.17	-39.61	316.76	-783.07	6,038.75	5,959.20	79.55	75.914	
18,300.00	12,213.49	15,300.00	11,011.02	91.30	83.17	-39.61	316.76	-783.07	6,135.34	6,055.79	79.55	77.122	
18,400.00	12,213.31	15,300.00	11,011.02	92.45	83.17	-39.61	316.76	-783.07	6,232.05	6,152.49	79.56	78.328	
18,500.00	12,213.14	15,300.00	11,011.02	93.62	83.17	-39.61	316.76	-783.07	6,328.86	6,249.28	79.58	79.531	
18,600.00	12,212.96	15,300.00	11,011.02	94.78	83.17	-39.61	316.76	-783.07	6,425.76	6,346.17	79.60	80.731	
18,700.00	12,212.79	15,300.00	11,011.02	95.95	83.17	-39.61	316.76	-783.07	6,522.76	6,443.15	79.62	81.928	
18,800.00	12,212.61	15,300.00	11,011.02	97.13	83.17	-39.61	316.76	-783.07	6,619.85	6,540.21	79.64	83.122	
18,900.00	12,212.44	15,300.00	11,011.02	98.31	83.17	-39.61	316.76	-783.07	6,717.02	6,637.36	79.67	84.313	
19,000.00	12,212.26	15,300.00	11,011.02	99.49	83.17	-39.61	316.76	-783.07	6,814.28	6,734.58	79.70	85.501	
19,100.00	12,212.09	15,300.00	11,011.02	100.67	83.17	-39.61	316.76	-783.07	6,911.61	6,831.88	79.73	86.686	
19,200.00	12,211.91	15,300.00	11,011.02	101.86	83.17	-39.61	316.76	-783.07	7,009.02	6,929.25	79.77	87.867	
19,300.00	12,211.74	15,300.00	11,011.02	103.05	83.17	-39.61	316.76	-783.07	7,106.50	7,026.70	79.81	89.046	
19,400.00	12,211.57	15,300.00	11,011.02	104.24	83.17	-39.61	316.76	-783.07	7,204.05	7,124.20	79.85	90.221	
19,500.00	12,211.39	15,300.00	11,011.02	105.44	83.17	-39.61	316.76	-783.07	7,301.67	7,221.78	79.89	91.392	
19,600.00	12,211.22	15,300.00	11,011.02	106.64	83.17	-39.61	316.76	-783.07	7,399.35	7,319.41	79.94	92.561	
19,700.00	12,211.04	15,300.00	11,011.02	107.84	83.17	-39.61	316.76	-783.07	7,497.09	7,417.10	79.99	93.726	
19,800.00	12,210.87	15,300.00	11,011.02	109.04	83.17	-39.61	316.76	-783.07	7,594.89	7,514.85	80.04	94.887	
19,900.00	12,210.69	15,300.00	11,011.02	110.25	83.17	-39.61	316.76	-783.07	7,692.75	7,612.65	80.09	96.046	
20,000.00	12,210.52	15,300.00	11,011.02	111.46	83.17	-39.61	316.76	-783.07	7,790.66	7,710.51	80.15	97.200	
20,100.00	12,210.34	15,300.00	11,011.02	112.67	83.17	-39.61	316.76	-783.07	7,888.62	7,808.41	80.21	98.351	
20,200.00	12,210.17	15,300.00	11,011.02	113.88	83.17	-39.61	316.76	-783.07	7,986.63	7,906.37	80.27	99.499	
20,300.00	12,209.99	15,300.00	11,011.02	115.10	83.17	-39.61	316.76	-783.07	8,084.70	8,004.37	80.33	100.643	
20,400.00	12,209.82	15,300.00	11,011.02	116.31	83.17	-39.61	316.76	-783.07	8,182.81	8,102.41	80.39	101.783	
20,500.00	12,209.65	15,300.00	11,011.02	117.53	83.17	-39.61	316.76	-783.07	8,280.96	8,200.50	80.46	102.920	
20,600.00	12,209.47	15,300.00	11,011.02	118.75	83.17	-39.61	316.76	-783.07	8,379.16	8,298.63	80.53	104.053	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 111-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
20,700.00	12,209.30	15,300.00	11,011.02	119.98	83.17	-39.61	316.76	-783.07	8,477.40	8,396.80	80.60	105.183	
20,800.00	12,209.12	15,300.00	11,011.02	121.20	83.17	-39.61	316.76	-783.07	8,575.68	8,495.01	80.67	106.309	
20,900.00	12,208.95	15,300.00	11,011.02	122.43	83.17	-39.61	316.76	-783.07	8,674.00	8,593.26	80.74	107.431	
21,000.00	12,208.77	15,300.00	11,011.02	123.66	83.17	-39.61	316.76	-783.07	8,772.36	8,691.54	80.81	108.549	
21,100.00	12,208.60	15,300.00	11,011.02	124.89	83.17	-39.61	316.76	-783.07	8,870.75	8,789.86	80.89	109.664	
21,200.00	12,208.42	15,300.00	11,011.02	126.12	83.17	-39.61	316.76	-783.07	8,969.18	8,888.22	80.97	110.775	
21,300.00	12,208.25	15,300.00	11,011.02	127.35	83.17	-39.61	316.76	-783.07	9,067.65	8,986.60	81.05	111.882	
21,400.00	12,208.07	15,300.00	11,011.02	128.59	83.17	-39.61	316.76	-783.07	9,166.15	9,085.02	81.13	112.986	
21,500.00	12,207.90	15,300.00	11,011.02	129.82	83.17	-39.61	316.76	-783.07	9,264.68	9,183.47	81.21	114.085	
21,600.00	12,207.73	15,300.00	11,011.02	131.06	83.17	-39.61	316.76	-783.07	9,363.24	9,281.95	81.29	115.181	
21,700.00	12,207.55	15,300.00	11,011.02	132.30	83.17	-39.61	316.76	-783.07	9,461.83	9,380.45	81.38	116.274	
21,800.00	12,207.38	15,300.00	11,011.02	133.54	83.17	-39.61	316.76	-783.07	9,560.45	9,478.99	81.46	117.362	
21,900.00	12,207.20	15,300.00	11,011.02	134.78	83.17	-39.61	316.76	-783.07	9,659.10	9,577.55	81.55	118.446	
22,000.00	12,207.03	15,300.00	11,011.02	136.03	83.17	-39.61	316.76	-783.07	9,757.78	9,676.14	81.64	119.527	
22,100.00	12,206.85	15,300.00	11,011.02	137.27	83.17	-39.61	316.76	-783.07	9,856.48	9,774.75	81.73	120.604	
22,200.00	12,206.68	15,300.00	11,011.02	138.52	83.17	-39.61	316.76	-783.07	9,955.21	9,873.39	81.82	121.677	
22,300.00	12,206.50	15,300.00	11,011.02	139.76	83.17	-39.61	316.76	-783.07	10,053.96	9,972.05	81.91	122.746	
22,400.00	12,206.33	15,300.00	11,011.02	141.01	83.17	-39.61	316.76	-783.07	10,152.74	10,070.74	82.00	123.811	
22,500.00	12,206.16	15,300.00	11,011.02	142.26	83.17	-39.61	316.76	-783.07	10,251.54	10,169.45	82.10	124.873	
22,600.00	12,205.98	15,300.00	11,011.02	143.51	83.17	-39.61	316.76	-783.07	10,350.37	10,268.18	82.19	125.931	
22,700.00	12,205.81	15,300.00	11,011.02	144.76	83.17	-39.61	316.76	-783.07	10,449.22	10,366.93	82.29	126.984	
22,800.00	12,205.63	15,300.00	11,011.02	146.02	83.17	-39.61	316.76	-783.07	10,548.09	10,465.70	82.38	128.034	
22,900.00	12,205.46	15,300.00	11,011.02	147.27	83.17	-39.61	316.76	-783.07	10,646.98	10,564.49	82.48	129.080	
23,000.00	12,205.28	15,300.00	11,011.02	148.52	83.17	-39.61	316.76	-783.07	10,745.89	10,663.31	82.58	130.122	
23,100.00	12,205.11	15,300.00	11,011.02	149.78	83.17	-39.61	316.76	-783.07	10,844.82	10,762.14	82.68	131.161	
23,200.00	12,204.93	15,300.00	11,011.02	151.04	83.17	-39.61	316.76	-783.07	10,943.77	10,860.99	82.78	132.195	
23,251.42	12,204.84	15,300.00	11,011.02	151.68	83.17	-39.61	316.76	-783.07	10,994.66	10,911.82	82.84	132.726	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 199-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	28.50	1.00	0.00	-179.37	-4,260.69	-46.77	4,261.05				
100.00	100.00	79.07	107.57	1.01	0.08	166.76	-4,260.62	-46.72	4,261.46	4,260.38	1.09	3,921.681	
200.00	199.98	189.66	218.16	1.08	0.19	-165.93	-4,260.29	-46.49	4,262.73	4,261.46	1.27	3,356.276	
300.00	299.96	295.30	323.79	1.26	0.41	-151.11	-4,259.77	-46.12	4,264.04	4,262.36	1.68	2,543.118	
400.00	399.95	405.29	433.78	1.51	0.65	164.53	-4,259.02	-45.71	4,265.14	4,262.98	2.16	1,972.866	
500.00	499.92	504.41	532.90	1.79	0.86	124.06	-4,258.24	-45.40	4,265.97	4,263.33	2.65	1,611.474	
600.00	599.89	599.00	627.48	2.09	1.04	117.87	-4,257.57	-45.21	4,266.61	4,263.47	3.14	1,360.396	
700.00	699.85	694.98	723.47	2.41	1.24	113.02	-4,257.01	-45.11	4,267.17	4,263.53	3.64	1,171.103	
800.00	799.82	798.15	826.63	2.74	1.45	108.24	-4,256.41	-44.81	4,267.56	4,263.38	4.18	1,020.217	
900.00	899.80	896.65	925.13	3.07	1.65	88.47	-4,255.78	-44.60	4,267.21	4,262.49	4.72	904.036	
1,000.00	999.80	997.51	1,025.99	3.40	1.86	77.94	-4,255.22	-44.43	4,266.52	4,261.25	5.26	810.477	
1,100.00	1,099.80	1,096.25	1,124.73	3.74	2.07	85.71	-4,254.59	-44.30	4,265.76	4,259.95	5.81	734.378	
1,200.00	1,199.79	1,196.05	1,224.53	4.08	2.28	121.43	-4,254.04	-44.10	4,265.29	4,258.93	6.36	670.759	
1,300.00	1,299.79	1,304.54	1,333.02	4.43	2.51	171.20	-4,253.32	-43.89	4,265.07	4,258.14	6.93	615.247	
1,400.00	1,399.79	1,415.79	1,444.26	4.77	2.74	-152.20	-4,252.31	-43.67	4,264.85	4,257.34	7.51	567.802	
1,500.00	1,499.78	1,535.25	1,563.71	5.11	3.00	-135.77	-4,250.72	-43.48	4,264.48	4,256.37	8.11	526.068	
1,600.00	1,599.77	1,630.80	1,659.25	5.45	3.20	-119.71	-4,249.35	-43.49	4,264.18	4,255.53	8.64	493.264	
1,700.00	1,699.75	1,740.10	1,768.54	5.79	3.43	-106.56	-4,247.78	-43.53	4,263.46	4,254.25	9.21	462.930	
1,800.00	1,799.74	1,852.91	1,881.32	6.13	3.67	-109.64	-4,245.70	-43.56	4,262.05	4,252.26	9.79	435.437	
1,900.00	1,899.73	1,957.04	1,985.43	6.47	3.89	-109.36	-4,243.67	-43.75	4,260.62	4,250.27	10.35	411.594	
2,000.00	1,999.72	2,057.13	2,085.51	6.81	4.11	-88.33	-4,241.64	-44.10	4,258.84	4,247.93	10.91	390.471	
2,100.00	2,099.71	2,155.83	2,184.18	7.15	4.32	-57.62	-4,239.66	-44.64	4,256.48	4,245.03	11.46	371.561	
2,200.00	2,199.71	2,267.47	2,295.80	7.49	4.56	-78.13	-4,237.31	-45.27	4,254.01	4,241.97	12.03	353.531	
2,300.00	2,299.70	2,381.13	2,409.42	7.83	4.80	-82.51	-4,234.54	-45.89	4,251.41	4,238.79	12.62	336.865	
2,400.00	2,399.69	2,458.00	2,486.26	8.18	4.97	-70.29	-4,232.50	-46.28	4,248.57	4,235.44	13.13	323.549	
2,500.00	2,499.69	2,525.56	2,553.81	8.52	5.11	-56.90	-4,231.15	-46.24	4,246.21	4,232.59	13.61	311.879	
2,600.00	2,599.68	2,600.99	2,629.24	8.87	5.27	-66.18	-4,230.55	-45.50	4,244.96	4,230.85	14.11	300.766	
2,700.00	2,699.68	2,711.42	2,739.66	9.21	5.50	-86.07	-4,229.71	-44.10	4,244.01	4,229.32	14.69	288.911	
2,800.00	2,799.68	2,815.26	2,843.47	9.56	5.71	-119.69	-4,228.66	-42.44	4,243.10	4,227.84	15.26	278.127	
2,900.00	2,899.68	2,923.97	2,952.16	9.92	5.94	-151.72	-4,227.47	-40.53	4,242.39	4,226.56	15.83	267.932	
3,000.00	2,999.68	3,034.88	3,063.04	10.27	6.18	-160.48	-4,225.96	-38.45	4,241.59	4,225.16	16.42	258.258	
3,100.00	3,099.67	3,138.33	3,166.46	10.62	6.40	-154.50	-4,224.41	-36.62	4,240.96	4,223.96	17.00	249.463	
3,200.00	3,199.67	3,249.80	3,277.90	10.98	6.64	-157.67	-4,222.49	-34.57	4,240.14	4,222.54	17.59	240.994	
3,300.00	3,299.66	3,354.86	3,382.92	11.33	6.87	-172.93	-4,220.52	-32.85	4,239.10	4,220.93	18.17	233.260	
3,400.00	3,399.66	3,470.56	3,498.59	11.68	7.12	174.20	-4,218.08	-30.95	4,238.08	4,219.30	18.78	225.712	
3,500.00	3,499.65	3,572.03	3,600.01	12.04	7.34	171.37	-4,215.64	-29.16	4,236.61	4,217.26	19.35	218.998	
3,600.00	3,599.65	3,676.61	3,704.54	12.39	7.56	-143.59	-4,213.15	-27.16	4,234.57	4,214.65	19.92	212.583	
3,700.00	3,699.65	3,773.35	3,801.23	12.74	7.77	-160.88	-4,210.78	-25.23	4,232.63	4,212.15	20.48	206.681	
3,800.00	3,799.65	3,864.40	3,892.23	13.10	7.96	-144.67	-4,208.70	-23.26	4,230.90	4,209.88	21.02	201.269	
3,900.00	3,899.65	3,957.61	3,985.40	13.45	8.15	-27.89	-4,206.75	-21.12	4,228.72	4,207.16	21.56	196.150	
4,000.00	3,999.64	4,051.63	4,079.38	13.79	8.35	-55.96	-4,204.91	-19.07	4,226.26	4,204.17	22.09	191.284	
4,100.00	4,099.64	4,153.54	4,181.25	14.13	8.56	-58.40	-4,202.99	-16.99	4,223.81	4,201.16	22.65	186.447	
4,200.00	4,199.64	4,245.99	4,273.66	14.48	8.76	8.23	-4,201.28	-14.84	4,221.60	4,198.40	23.20	181.986	
4,300.00	4,299.62	4,324.71	4,352.33	14.82	8.93	57.02	-4,200.08	-12.31	4,219.12	4,195.41	23.71	177.979	
4,400.00	4,399.56	4,380.43	4,408.00	15.16	9.05	62.89	-4,199.60	-10.11	4,216.56	4,192.40	24.16	174.516	
4,500.00	4,499.52	4,446.00	4,473.53	15.50	9.18	67.33	-4,200.10	-7.77	4,216.08	4,191.44	24.64	171.129	
4,520.24	4,519.76	4,446.00	4,473.53	15.57	9.18	66.49	-4,200.10	-7.77	4,216.04	4,191.34	24.70	170.660	
4,600.00	4,599.48	4,491.55	4,519.04	15.84	9.27	64.33	-4,200.93	-6.22	4,216.39	4,191.32	25.07	168.200	
4,700.00	4,699.36	4,571.80	4,599.22	16.19	9.44	61.72	-4,202.62	-3.28	4,216.28	4,190.71	25.57	164.866	
4,791.64	4,790.84	4,635.00	4,662.38	16.50	9.57	62.52	-4,204.29	-1.51	4,216.16	4,190.14	26.02	162.065	
4,800.00	4,799.16	4,646.62	4,673.99	16.53	9.59	62.60	-4,204.64	-1.24	4,215.94	4,189.87	26.07	161.724	
4,900.00	4,899.01	4,730.37	4,757.66	16.87	9.76	65.05	-4,207.29	1.04	4,216.76	4,190.17	26.58	158.620	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 199-MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,998.96	4,852.64	4,879.83	17.22	10.02	61.38	-4,211.05	4.36	4,218.32	4,191.13	27.19	155.131	
5,100.00	5,098.90	4,968.38	4,995.50	17.56	10.26	62.42	-4,214.13	6.85	4,219.41	4,191.62	27.79	151.852	
5,200.00	5,198.84	5,091.55	5,118.62	17.91	10.52	59.50	-4,216.82	9.21	4,219.90	4,191.50	28.40	148.593	
5,300.00	5,298.82	5,176.95	5,203.99	18.26	10.70	93.86	-4,218.56	11.02	4,221.12	4,192.20	28.93	145.932	
5,400.00	5,398.81	5,251.63	5,278.61	18.60	10.85	-138.28	-4,220.45	13.15	4,224.52	4,195.09	29.43	143.556	
5,500.00	5,498.79	5,317.43	5,344.33	18.96	10.99	-135.79	-4,222.55	15.57	4,229.07	4,199.16	29.91	141.392	
5,600.00	5,598.78	5,387.00	5,413.76	19.31	11.13	-128.18	-4,225.51	18.85	4,234.32	4,203.92	30.40	139.282	
5,700.00	5,698.77	5,456.99	5,483.75	19.66	11.27	-125.39	-125.53	752.39	4,238.02	4,194.23	43.78	96.792	
5,800.00	5,798.76	5,526.98	5,553.74	20.01	11.41	-125.53	-125.53	752.39	4,139.79	4,095.70	44.09	93.898	
5,900.00	5,898.75	5,596.97	5,623.73	20.36	11.55	-125.53	-125.53	752.39	4,041.62	3,997.22	44.40	91.023	
6,000.00	5,998.74	5,666.96	5,693.72	20.72	11.69	-125.53	-125.53	752.39	3,943.58	3,898.85	44.73	88.165	
6,100.00	6,098.73	5,736.95	5,763.71	21.07	11.83	-125.53	-125.53	752.39	3,845.66	3,800.59	45.07	85.324	
6,200.00	6,198.72	5,806.94	5,833.70	21.42	11.97	-125.53	-125.53	752.39	3,747.86	3,702.43	45.43	82.502	
6,300.00	6,298.70	5,876.93	5,903.69	21.77	12.11	-125.53	-125.53	752.39	3,650.21	3,604.40	45.80	79.698	
6,400.00	6,398.69	5,946.92	5,973.68	22.13	12.25	-125.53	-125.53	752.39	3,552.72	3,506.52	46.19	76.911	
6,500.00	6,498.67	6,016.91	6,043.67	22.47	12.39	-125.53	-125.53	752.39	3,455.40	3,408.80	46.60	74.144	
6,600.00	6,598.65	6,086.90	6,113.66	22.82	12.53	-103.17	-125.53	752.39	3,358.18	3,311.14	47.03	71.400	
6,700.00	6,698.64	6,156.89	6,183.65	23.16	12.67	-13.78	-125.53	752.39	3,260.69	3,213.22	47.47	68.693	
6,800.00	6,798.64	6,226.88	6,253.64	23.51	12.81	13.39	-125.53	752.39	3,163.27	3,115.35	47.92	66.012	
6,900.00	6,898.64	6,296.87	6,323.63	23.86	12.95	22.88	-122.68	752.54	3,066.06	3,017.64	48.41	63.329	
7,000.00	6,998.64	6,366.86	6,393.62	24.20	13.09	-2.27	-119.36	752.71	2,969.06	2,920.12	48.94	60.665	
7,100.00	7,098.63	6,436.85	6,463.61	24.55	13.23	-43.47	-116.40	752.87	2,872.30	2,822.80	49.50	58.027	
7,200.00	7,198.63	6,506.84	6,533.60	24.89	13.37	-48.62	-113.84	753.01	2,775.76	2,725.67	50.09	55.417	
7,300.00	7,298.63	6,576.83	6,603.59	25.23	13.51	-43.29	-111.42	753.15	2,679.44	2,628.72	50.71	52.835	
7,400.00	7,398.63	6,646.82	6,673.58	25.58	13.65	-51.59	-108.99	753.29	2,583.42	2,532.04	51.38	50.277	
7,500.00	7,498.62	6,716.81	6,743.57	25.92	13.79	-61.00	-106.73	753.42	2,487.73	2,435.62	52.10	47.747	
7,600.00	7,598.62	6,786.80	6,813.56	26.27	13.93	-68.51	-104.91	753.53	2,392.37	2,339.50	52.87	45.248	
7,700.00	7,698.61	6,856.79	6,883.55	26.62	14.07	-67.42	-103.56	753.62	2,297.35	2,243.65	53.70	42.782	
7,800.00	7,798.59	6,926.78	6,953.54	26.96	14.21	-67.62	-102.26	753.70	2,202.76	2,148.16	54.60	40.346	
7,900.00	7,898.58	6,996.77	7,023.53	27.31	14.35	-53.95	-100.94	753.78	2,108.67	2,053.09	55.58	37.943	
8,000.00	7,998.58	7,066.76	7,093.52	27.66	14.49	64.68	-98.45	753.94	2,015.22	1,958.56	56.66	35.566	
8,100.00	8,098.58	7,136.75	7,163.51	28.01	14.63	85.94	-95.36	754.14	1,922.56	1,864.69	57.87	33.223	
8,200.00	8,198.58	7,206.74	7,233.50	28.36	14.77	88.70	-92.43	754.34	1,830.68	1,771.48	59.20	30.922	
8,300.00	8,298.58	7,276.73	7,303.49	28.71	14.91	167.89	-89.90	754.51	1,739.75	1,679.06	60.69	28.668	
8,400.00	8,398.57	7,346.72	7,373.48	29.06	15.05	-140.90	-87.71	754.67	1,649.97	1,587.63	62.34	26.466	
8,500.00	8,498.57	7,416.71	7,443.47	29.40	15.19	-125.37	-85.86	754.80	1,561.47	1,497.27	64.19	24.324	
8,600.00	8,598.57	7,486.70	7,513.46	29.75	15.33	-128.99	-84.27	754.91	1,474.50	1,408.23	66.28	22.248	
8,700.00	8,698.56	7,556.69	7,583.45	30.10	15.47	-132.21	-82.83	755.02	1,389.40	1,320.78	68.62	20.247	
8,800.00	8,798.55	7,626.68	7,653.44	30.45	15.61	-139.79	-81.49	755.12	1,306.55	1,235.28	71.27	18.331	
8,900.00	8,898.54	7,696.67	7,723.43	30.80	15.75	-136.00	-80.16	755.22	1,226.27	1,152.01	74.26	16.514	
9,000.00	8,998.54	7,766.66	7,793.42	31.15	15.89	-130.74	-78.81	755.32	1,148.95	1,071.36	77.59	14.807	
9,100.00	9,098.53	7,836.65	7,863.41	31.49	16.03	-121.58	-77.44	755.42	1,075.22	993.91	81.30	13.225	
9,200.00	9,198.53	7,906.64	7,933.40	31.84	16.17	-111.98	-76.29	755.51	1,005.96	920.59	85.37	11.783	
9,300.00	9,298.52	7,976.63	7,999.39	32.19	16.31	-94.73	-75.16	755.60	942.08	852.33	89.75	10.496	
9,400.00	9,398.52	8,046.62	8,069.38	32.54	16.45	-69.52	-73.84	755.70	884.49	790.16	94.33	9.377	
9,500.00	9,498.51	8,116.61	8,139.37	32.89	16.59	-69.13	-72.78	755.79	834.87	735.97	98.90	8.441	
9,600.00	9,598.51	8,186.60	8,209.36	33.23	16.73	41.06	-71.16	755.91	794.74	691.57	103.18	7.703	
9,700.00	9,698.51	8,256.59	8,279.35	33.58	16.87	79.61	-68.87	756.10	765.63	658.86	106.77	7.171	
9,800.00	9,798.50	8,326.58	8,349.34	33.93	17.01	97.85	-66.26	756.31	749.18	639.92	109.26	6.857	
9,873.62	9,872.11	8,396.57	8,419.33	34.19	17.15	95.17	-64.23	756.48	745.58	635.38	110.20	6.765 CC, ES	
9,900.00	9,898.48	8,466.56	8,489.32	34.28	17.29	94.28	-63.46	756.55	746.13	635.79	110.34	6.762 SF	
10,000.00	9,998.47	8,536.55	8,559.31	34.63	17.43	41.40	-60.88	756.77	755.80	645.87	109.93	6.875	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 199-MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,100.00	10,098.45	13,945.74	9,873.31	34.98	76.43	-0.02	-58.98	756.93	776.82	668.68	108.14	7.184	
10,200.00	10,198.42	13,947.26	9,873.35	35.33	76.45	7.50	-57.46	757.06	809.36	704.06	105.30	7.687	
10,300.00	10,298.42	13,948.93	9,873.38	35.68	76.48	27.80	-55.80	757.21	853.76	751.90	101.85	8.382	
10,400.00	10,398.42	13,950.57	9,873.42	36.03	76.51	121.10	-54.16	757.35	907.56	809.40	98.17	9.245	
10,500.00	10,498.42	13,951.89	9,873.45	36.38	76.53	-141.29	-52.85	757.47	969.22	874.69	94.53	10.253	
10,600.00	10,598.41	13,952.77	9,873.47	36.72	76.54	-129.45	-51.98	757.55	1,037.10	946.00	91.10	11.384	
10,700.00	10,698.40	13,953.34	9,873.48	37.07	76.55	-106.24	-51.41	757.60	1,109.68	1,021.72	87.96	12.616	
10,800.00	10,798.39	13,953.79	9,873.49	37.42	76.56	-120.89	-50.96	757.64	1,186.35	1,101.20	85.15	13.932	
10,900.00	10,898.37	13,954.02	9,873.49	37.77	76.56	-122.28	-50.73	757.66	1,266.42	1,183.73	82.69	15.315	
11,000.00	10,998.36	13,954.70	9,873.51	38.12	76.57	-166.56	-50.05	757.73	1,349.34	1,268.78	80.56	16.749	
11,100.00	11,098.34	13,956.09	9,873.54	38.47	76.60	169.15	-48.67	757.85	1,434.66	1,355.91	78.75	18.218	
11,200.00	11,198.33	13,975.00	9,873.90	38.82	76.90	176.84	-29.85	759.70	1,521.83	1,444.52	77.31	19.685	
11,300.00	11,298.32	13,975.00	9,873.90	39.17	76.90	158.05	-29.85	759.70	1,610.14	1,534.19	75.95	21.201	
11,400.00	11,398.31	13,975.00	9,873.90	39.52	76.90	136.01	-29.85	759.70	1,699.66	1,624.88	74.78	22.729	
11,500.00	11,498.30	13,975.00	9,873.90	39.87	76.90	132.45	-29.85	759.70	1,790.46	1,716.66	73.80	24.260	
11,600.00	11,598.26	13,975.00	9,873.90	40.22	76.90	135.97	-29.85	759.70	1,882.37	1,809.38	72.99	25.790	
11,700.00	11,698.13	13,975.00	9,873.90	40.57	76.90	89.54	-29.85	759.70	1,975.11	1,902.79	72.32	27.310	
11,800.00	11,797.26	13,978.10	9,873.96	40.92	76.95	82.34	-26.77	760.01	2,067.90	1,996.09	71.82	28.794	
11,900.00	11,894.04	14,008.01	9,874.51	41.25	77.44	65.36	2.99	762.95	2,162.14	2,090.32	71.82	30.105	
12,000.00	11,984.36	14,058.41	9,875.47	41.58	78.26	41.08	53.18	767.42	2,253.15	2,180.92	72.23	31.194	
12,100.00	12,063.58	14,192.40	9,877.62	41.88	80.46	30.00	187.02	770.37	2,332.49	2,259.33	73.17	31.879	
12,200.00	12,127.93	14,270.98	9,878.53	42.16	81.76	23.55	265.54	767.51	2,394.74	2,321.02	73.72	32.484	
12,300.00	12,174.23	14,330.82	9,878.51	42.41	82.74	19.96	325.32	764.56	2,435.05	2,361.07	73.98	32.914	
12,400.00	12,207.18	14,396.00	9,877.99	42.64	83.82	17.56	390.40	761.05	2,456.58	2,382.68	73.91	33.239	
12,500.00	12,226.06	14,396.00	9,877.99	42.85	83.82	17.21	390.40	761.05	2,465.47	2,391.97	73.50	33.543	
12,600.00	12,231.93	14,396.00	9,877.99	43.07	83.82	17.16	390.40	761.05	2,465.46	2,392.31	73.15	33.705	
12,686.29	12,232.52	14,396.00	9,877.99	43.27	83.82	17.18	390.40	761.05	2,464.56	2,391.66	72.90	33.806	
12,700.00	12,232.01	14,396.00	9,877.99	43.31	83.82	17.18	390.40	761.05	2,464.04	2,391.18	72.86	33.818	
12,800.00	12,232.36	14,396.00	9,877.99	46.60	83.82	16.86	390.40	761.05	2,469.35	2,397.09	72.26	34.172	
12,900.00	12,231.44	14,396.00	9,877.99	46.64	83.82	16.80	390.40	761.05	2,479.64	2,407.61	72.03	34.426	
13,000.00	12,231.18	14,396.00	9,877.99	46.69	83.82	16.52	390.40	761.05	2,494.88	2,422.99	71.88	34.708	
13,100.00	12,230.71	14,396.00	9,877.99	46.74	83.82	16.14	390.40	761.05	2,514.69	2,442.83	71.86	34.995	
13,200.00	12,230.03	14,396.00	9,877.99	46.79	83.82	15.68	390.40	761.05	2,538.97	2,467.01	71.95	35.286	
13,300.00	12,229.13	14,396.00	9,877.99	46.86	83.82	15.12	390.40	761.05	2,567.54	2,495.38	72.16	35.583	
13,400.00	12,228.02	14,396.00	9,877.99	46.94	83.82	14.48	390.40	761.05	2,600.25	2,527.79	72.45	35.889	
13,500.00	12,226.71	14,396.00	9,877.99	47.07	83.82	13.74	390.40	761.05	2,636.90	2,564.06	72.83	36.204	
13,600.00	12,225.18	14,396.00	9,877.99	47.30	83.82	12.91	390.40	761.05	2,677.29	2,604.01	73.29	36.533	
13,700.00	12,223.54	14,396.00	9,877.99	47.68	83.82	12.88	390.40	761.05	2,721.02	2,647.25	73.77	36.885	
13,800.00	12,221.91	14,396.00	9,877.99	48.18	83.82	12.88	390.40	761.05	2,767.67	2,693.41	74.25	37.273	
13,900.00	12,221.16	14,396.00	9,877.99	48.74	83.82	12.99	390.40	761.05	2,817.84	2,743.12	74.72	37.710	
14,000.00	12,220.99	14,396.00	9,877.99	49.34	83.82	12.99	390.40	761.05	2,871.09	2,795.91	75.18	38.190	
14,100.00	12,220.82	14,396.00	9,877.99	49.99	83.82	12.99	390.40	761.05	2,926.78	2,851.17	75.62	38.705	
14,200.00	12,220.64	14,396.00	9,877.99	50.66	83.82	12.99	390.40	761.05	2,984.79	2,908.75	76.04	39.254	
14,300.00	12,220.47	14,396.00	9,877.99	51.36	83.82	12.99	390.40	761.05	3,044.98	2,968.54	76.44	39.835	
14,400.00	12,220.29	14,396.00	9,877.99	52.08	83.82	12.99	390.40	761.05	3,107.22	3,030.40	76.82	40.447	
14,500.00	12,220.12	14,396.00	9,877.99	52.83	83.82	12.99	390.40	761.05	3,171.39	3,094.21	77.18	41.090	
14,600.00	12,219.94	14,396.00	9,877.99	53.60	83.82	12.99	390.40	761.05	3,237.38	3,159.86	77.52	41.760	
14,700.00	12,219.77	14,396.00	9,877.99	54.40	83.82	12.99	390.40	761.05	3,305.08	3,227.24	77.84	42.458	
14,800.00	12,219.59	14,396.00	9,877.99	55.21	83.82	12.99	390.40	761.05	3,374.39	3,296.24	78.15	43.181	
14,900.00	12,219.42	14,396.00	9,877.99	56.04	83.82	12.99	390.40	761.05	3,445.20	3,366.77	78.43	43.927	
15,000.00	12,219.24	14,396.00	9,877.99	56.89	83.82	12.99	390.40	761.05	3,517.43	3,438.73	78.70	44.696	
15,100.00	12,219.07	14,396.00	9,877.99	57.76	83.82	12.99	390.40	761.05	3,590.99	3,512.05	78.95	45.486	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 199-MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,200.00	12,218.90	14,396.00	9,877.99	58.64	83.82	12.99	390.40	761.05	3,665.81	3,586.63	79.18	46.295	
15,300.00	12,218.72	14,396.00	9,877.99	59.54	83.82	12.99	390.40	761.05	3,741.80	3,662.40	79.40	47.123	
15,400.00	12,218.55	14,396.00	9,877.99	60.46	83.82	12.99	390.40	761.05	3,818.90	3,739.28	79.61	47.968	
15,500.00	12,218.37	14,396.00	9,877.99	61.39	83.82	12.99	390.40	761.05	3,897.04	3,817.23	79.81	48.829	
15,600.00	12,218.20	14,396.00	9,877.99	62.33	83.82	12.99	390.40	761.05	3,976.16	3,896.16	80.00	49.705	
15,700.00	12,218.02	14,396.00	9,877.99	63.29	83.82	12.99	390.40	761.05	4,056.20	3,976.03	80.17	50.594	
15,800.00	12,217.85	14,396.00	9,877.99	64.25	83.82	12.99	390.40	761.05	4,137.11	4,056.77	80.34	51.497	
15,900.00	12,217.67	14,396.00	9,877.99	65.24	83.82	12.99	390.40	761.05	4,218.84	4,138.34	80.49	52.411	
16,000.00	12,217.50	14,396.00	9,877.99	66.23	83.82	12.99	390.40	761.05	4,301.34	4,220.69	80.64	53.337	
16,100.00	12,217.33	14,396.00	9,877.99	67.23	83.82	12.99	390.40	761.05	4,384.56	4,303.78	80.79	54.273	
16,200.00	12,217.15	14,396.00	9,877.99	68.24	83.82	12.99	390.40	761.05	4,468.48	4,387.56	80.92	55.219	
16,300.00	12,216.98	14,396.00	9,877.99	69.27	83.82	12.99	390.40	761.05	4,553.05	4,471.99	81.05	56.173	
16,400.00	12,216.80	14,396.00	9,877.99	70.30	83.82	12.99	390.40	761.05	4,638.23	4,557.05	81.18	57.136	
16,500.00	12,216.63	14,396.00	9,877.99	71.34	83.82	12.99	390.40	761.05	4,723.99	4,642.69	81.30	58.106	
16,600.00	12,216.45	14,396.00	9,877.99	72.39	83.82	12.99	390.40	761.05	4,810.30	4,728.89	81.42	59.083	
16,700.00	12,216.28	14,396.00	9,877.99	73.45	83.82	12.99	390.40	761.05	4,897.13	4,815.61	81.53	60.067	
16,800.00	12,216.10	14,396.00	9,877.99	74.52	83.82	12.99	390.40	761.05	4,984.46	4,902.82	81.64	61.057	
16,900.00	12,215.93	14,396.00	9,877.99	75.60	83.82	12.99	390.40	761.05	5,072.25	4,990.51	81.74	62.052	
17,000.00	12,215.75	14,396.00	9,877.99	76.68	83.82	12.99	390.40	761.05	5,160.49	5,078.65	81.84	63.053	
17,100.00	12,215.58	14,396.00	9,877.99	77.77	83.82	12.99	390.40	761.05	5,249.15	5,167.21	81.94	64.058	
17,200.00	12,215.41	14,396.00	9,877.99	78.86	83.82	12.99	390.40	761.05	5,338.21	5,256.17	82.04	65.067	
17,300.00	12,215.23	14,396.00	9,877.99	79.97	83.82	12.99	390.40	761.05	5,427.65	5,345.52	82.14	66.080	
17,400.00	12,215.06	14,396.00	9,877.99	81.07	83.82	12.99	390.40	761.05	5,517.46	5,435.23	82.23	67.096	
17,500.00	12,214.88	14,396.00	9,877.99	82.19	83.82	12.99	390.40	761.05	5,607.61	5,525.28	82.32	68.116	
17,600.00	12,214.71	14,396.00	9,877.99	83.31	83.82	12.99	390.40	761.05	5,698.09	5,615.67	82.42	69.139	
17,700.00	12,214.53	14,396.00	9,877.99	84.44	83.82	12.99	390.40	761.05	5,788.88	5,706.37	82.51	70.164	
17,800.00	12,214.36	14,396.00	9,877.99	85.57	83.82	12.99	390.40	761.05	5,879.97	5,797.37	82.59	71.191	
17,900.00	12,214.18	14,396.00	9,877.99	86.70	83.82	12.99	390.40	761.05	5,971.34	5,888.66	82.68	72.221	
18,000.00	12,214.01	14,396.00	9,877.99	87.84	83.82	12.99	390.40	761.05	6,062.99	5,980.22	82.77	73.252	
18,100.00	12,213.83	14,396.00	9,877.99	88.99	83.82	12.99	390.40	761.05	6,154.90	6,072.04	82.86	74.284	
18,200.00	12,213.66	14,396.00	9,877.99	90.14	83.82	12.99	390.40	761.05	6,247.05	6,164.11	82.94	75.318	
18,300.00	12,213.49	14,396.00	9,877.99	91.30	83.82	12.99	390.40	761.05	6,339.45	6,256.42	83.03	76.354	
18,400.00	12,213.31	14,396.00	9,877.99	92.45	83.82	12.99	390.40	761.05	6,432.07	6,348.96	83.11	77.390	
18,500.00	12,213.14	14,396.00	9,877.99	93.62	83.82	12.99	390.40	761.05	6,524.91	6,441.71	83.20	78.426	
18,600.00	12,212.96	14,396.00	9,877.99	94.78	83.82	12.99	390.40	761.05	6,617.96	6,534.67	83.28	79.464	
18,700.00	12,212.79	14,396.00	9,877.99	95.95	83.82	12.99	390.40	761.05	6,711.20	6,627.84	83.37	80.501	
18,800.00	12,212.61	14,396.00	9,877.99	97.13	83.82	12.99	390.40	761.05	6,804.64	6,721.19	83.45	81.539	
18,900.00	12,212.44	14,396.00	9,877.99	98.31	83.82	12.99	390.40	761.05	6,898.27	6,814.73	83.54	82.577	
19,000.00	12,212.26	14,396.00	9,877.99	99.49	83.82	12.99	390.40	761.05	6,992.07	6,908.45	83.62	83.615	
19,100.00	12,212.09	14,396.00	9,877.99	100.67	83.82	12.99	390.40	761.05	7,086.04	7,002.33	83.71	84.653	
19,200.00	12,211.91	14,396.00	9,877.99	101.86	83.82	12.99	390.40	761.05	7,180.17	7,096.38	83.79	85.690	
19,300.00	12,211.74	14,396.00	9,877.99	103.05	83.82	12.99	390.40	761.05	7,274.46	7,190.58	83.88	86.727	
19,400.00	12,211.57	14,396.00	9,877.99	104.24	83.82	12.99	390.40	761.05	7,368.90	7,284.94	83.96	87.763	
19,500.00	12,211.39	14,396.00	9,877.99	105.44	83.82	12.99	390.40	761.05	7,463.48	7,379.44	84.05	88.799	
19,600.00	12,211.22	14,396.00	9,877.99	106.64	83.82	12.99	390.40	761.05	7,558.21	7,474.07	84.14	89.834	
19,700.00	12,211.04	14,396.00	9,877.99	107.84	83.82	12.99	390.40	761.05	7,653.07	7,568.85	84.22	90.867	
19,800.00	12,210.87	14,396.00	9,877.99	109.04	83.82	12.99	390.40	761.05	7,748.06	7,663.75	84.31	91.900	
19,900.00	12,210.69	14,396.00	9,877.99	110.25	83.82	12.99	390.40	761.05	7,843.17	7,758.77	84.40	92.932	
20,000.00	12,210.52	14,396.00	9,877.99	111.46	83.82	12.99	390.40	761.05	7,938.40	7,853.92	84.48	93.962	
20,100.00	12,210.34	14,396.00	9,877.99	112.67	83.82	12.99	390.40	761.05	8,033.75	7,949.18	84.57	94.992	
20,200.00	12,210.17	14,396.00	9,877.99	113.88	83.82	12.99	390.40	761.05	8,129.21	8,044.55	84.66	96.019	
20,300.00	12,209.99	14,396.00	9,877.99	115.10	83.82	12.99	390.40	761.05	8,224.78	8,140.03	84.75	97.046	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 199-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
20,400.00	12,209.82	14,396.00	9,877.99	116.31	83.82	12.99	390.40	761.05	8,320.45	8,235.61	84.84	98.071	
20,500.00	12,209.65	14,396.00	9,877.99	117.53	83.82	12.99	390.40	761.05	8,416.22	8,331.29	84.93	99.094	
20,600.00	12,209.47	14,396.00	9,877.99	118.75	83.82	12.99	390.40	761.05	8,512.09	8,427.07	85.02	100.116	
20,700.00	12,209.30	14,396.00	9,877.99	119.98	83.82	12.99	390.40	761.05	8,608.06	8,522.94	85.11	101.136	
20,800.00	12,209.12	14,396.00	9,877.99	121.20	83.82	12.99	390.40	761.05	8,704.11	8,618.90	85.21	102.154	
20,900.00	12,208.95	14,396.00	9,877.99	122.43	83.82	12.99	390.40	761.05	8,800.25	8,714.95	85.30	103.170	
21,000.00	12,208.77	14,396.00	9,877.99	123.66	83.82	12.99	390.40	761.05	8,896.48	8,811.09	85.39	104.185	
21,100.00	12,208.60	14,396.00	9,877.99	124.89	83.82	12.99	390.40	761.05	8,992.79	8,907.31	85.49	105.197	
21,200.00	12,208.42	14,396.00	9,877.99	126.12	83.82	12.99	390.40	761.05	9,089.18	9,003.60	85.58	106.208	
21,300.00	12,208.25	14,396.00	9,877.99	127.35	83.82	12.99	390.40	761.05	9,185.65	9,099.97	85.67	107.216	
21,400.00	12,208.07	14,396.00	9,877.99	128.59	83.82	12.99	390.40	761.05	9,282.19	9,196.42	85.77	108.222	
21,500.00	12,207.90	14,396.00	9,877.99	129.82	83.82	12.99	390.40	761.05	9,378.80	9,292.94	85.87	109.227	
21,600.00	12,207.73	14,396.00	9,877.99	131.06	83.82	12.99	390.40	761.05	9,475.49	9,389.53	85.96	110.229	
21,700.00	12,207.55	14,396.00	9,877.99	132.30	83.82	12.99	390.40	761.05	9,572.24	9,486.18	86.06	111.229	
21,800.00	12,207.38	14,396.00	9,877.99	133.54	83.82	12.99	390.40	761.05	9,669.06	9,582.90	86.16	112.226	
21,900.00	12,207.20	14,396.00	9,877.99	134.78	83.82	12.99	390.40	761.05	9,765.94	9,679.69	86.26	113.221	
22,000.00	12,207.03	14,396.00	9,877.99	136.03	83.82	12.99	390.40	761.05	9,862.89	9,776.53	86.35	114.214	
22,100.00	12,206.85	14,396.00	9,877.99	137.27	83.82	12.99	390.40	761.05	9,959.89	9,873.44	86.45	115.205	
22,200.00	12,206.68	14,396.00	9,877.99	138.52	83.82	12.99	390.40	761.05	10,056.96	9,970.40	86.55	116.193	
22,300.00	12,206.50	14,396.00	9,877.99	139.76	83.82	12.99	390.40	761.05	10,154.08	10,067.42	86.65	117.178	
22,400.00	12,206.33	14,396.00	9,877.99	141.01	83.82	12.99	390.40	761.05	10,251.25	10,164.50	86.76	118.161	
22,500.00	12,206.16	14,396.00	9,877.99	142.26	83.82	12.99	390.40	761.05	10,348.48	10,261.63	86.86	119.142	
22,600.00	12,205.98	14,396.00	9,877.99	143.51	83.82	12.99	390.40	761.05	10,445.77	10,358.81	86.96	120.120	
22,700.00	12,205.81	14,396.00	9,877.99	144.76	83.82	12.99	390.40	761.05	10,543.10	10,456.04	87.06	121.096	
22,800.00	12,205.63	14,396.00	9,877.99	146.02	83.82	12.99	390.40	761.05	10,640.48	10,553.32	87.17	122.069	
22,900.00	12,205.46	14,396.00	9,877.99	147.27	83.82	12.99	390.40	761.05	10,737.91	10,650.64	87.27	123.039	
23,000.00	12,205.28	14,396.00	9,877.99	148.52	83.82	12.99	390.40	761.05	10,835.39	10,748.01	87.38	124.007	
23,100.00	12,205.11	14,396.00	9,877.99	149.78	83.82	12.99	390.40	761.05	10,932.92	10,845.43	87.48	124.972	
23,200.00	12,204.93	14,396.00	9,877.99	151.04	83.82	12.99	390.40	761.05	11,030.48	10,942.89	87.59	125.934	
23,251.42	12,204.84	14,396.00	9,877.99	151.68	83.82	12.99	390.40	761.05	11,080.67	10,993.02	87.64	126.428	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 121-MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	31.50	1.00	0.00	-178.83	-4,261.09	-86.77	4,262.09				
100.00	100.00	93.01	124.51	1.01	0.09	167.29	-4,260.83	-86.41	4,262.36	4,261.27	1.09	3,897.046	
200.00	199.98	188.50	219.99	1.08	0.26	-165.41	-4,260.26	-85.41	4,263.31	4,261.97	1.34	3,180.676	
300.00	299.96	280.72	312.21	1.26	0.45	-150.60	-4,259.99	-84.19	4,264.78	4,263.07	1.72	2,482.948	
400.00	399.95	376.50	407.98	1.51	0.65	165.03	-4,259.76	-82.87	4,266.30	4,264.14	2.16	1,974.381	
500.00	499.92	468.84	500.31	1.79	0.84	124.54	-4,259.69	-81.68	4,267.84	4,265.21	2.63	1,621.821	
600.00	599.89	568.61	600.07	2.09	1.05	118.34	-4,259.72	-80.68	4,269.22	4,266.08	3.14	1,360.130	
700.00	699.85	667.00	698.46	2.41	1.25	113.48	-4,259.71	-79.91	4,270.36	4,266.70	3.66	1,166.022	
800.00	799.82	761.15	792.61	2.74	1.45	108.69	-4,259.79	-79.27	4,271.42	4,267.23	4.19	1,019.597	
900.00	899.80	861.47	892.92	3.07	1.67	88.92	-4,259.96	-78.68	4,271.89	4,267.15	4.74	902.122	
1,000.00	999.80	960.75	992.20	3.40	1.88	78.39	-4,260.17	-78.31	4,271.96	4,266.67	5.28	808.535	
1,100.00	1,099.80	1,079.64	1,111.10	3.74	2.13	86.16	-4,260.12	-78.11	4,271.80	4,265.93	5.87	727.414	
1,200.00	1,199.79	1,184.85	1,216.30	4.08	2.35	121.88	-4,259.71	-77.84	4,271.49	4,265.06	6.43	663.959	
1,225.93	1,225.73	1,209.25	1,240.70	4.17	2.40	135.30	-4,259.62	-77.78	4,271.48	4,264.91	6.57	649.802	
1,300.00	1,299.79	1,284.91	1,316.36	4.43	2.56	171.65	-4,259.35	-77.57	4,271.58	4,264.59	6.99	611.434	
1,400.00	1,399.79	1,376.26	1,407.71	4.77	2.75	-151.75	-4,259.13	-77.25	4,272.01	4,264.49	7.52	568.272	
1,500.00	1,499.78	1,488.40	1,519.85	5.11	2.98	-135.31	-4,258.79	-76.99	4,272.68	4,264.58	8.10	527.798	
1,600.00	1,599.77	1,591.42	1,622.87	5.45	3.20	-119.25	-4,258.24	-77.00	4,273.26	4,264.61	8.65	494.093	
1,700.00	1,699.75	1,691.41	1,722.86	5.79	3.40	-106.10	-4,257.70	-76.99	4,273.42	4,264.23	9.19	465.016	
1,800.00	1,799.74	1,790.68	1,822.12	6.13	3.61	-109.18	-4,257.17	-76.96	4,273.32	4,263.58	9.73	439.036	
1,900.00	1,899.73	1,891.31	1,922.75	6.47	3.82	-108.90	-4,256.64	-76.92	4,273.29	4,263.01	10.28	415.533	
2,000.00	1,999.72	1,991.30	2,022.74	6.81	4.03	-87.89	-4,256.10	-76.88	4,272.99	4,262.16	10.83	394.379	
2,100.00	2,099.71	2,090.17	2,121.61	7.15	4.23	-57.19	-4,255.59	-76.77	4,272.10	4,260.72	11.38	375.372	
2,200.00	2,199.71	2,194.19	2,225.63	7.49	4.45	-77.71	-4,255.03	-76.68	4,271.18	4,259.24	11.94	357.738	
2,300.00	2,299.70	2,304.77	2,336.20	7.83	4.68	-82.09	-4,254.18	-76.65	4,270.23	4,257.71	12.52	341.181	
2,400.00	2,399.69	2,404.74	2,436.18	8.18	4.89	-69.88	-4,253.32	-76.63	4,269.10	4,256.03	13.07	326.618	
2,500.00	2,499.69	2,514.30	2,545.72	8.52	5.12	-56.49	-4,252.33	-76.56	4,267.71	4,254.07	13.64	312.810	
2,600.00	2,599.68	2,615.58	2,647.00	8.87	5.34	-65.77	-4,251.15	-76.38	4,266.14	4,251.94	14.20	300.446	
2,700.00	2,699.68	2,715.89	2,747.31	9.21	5.55	-85.64	-4,250.08	-76.06	4,264.88	4,250.12	14.76	289.017	
2,800.00	2,799.68	2,825.43	2,856.84	9.56	5.78	-119.25	-4,248.76	-75.70	4,263.79	4,248.45	15.34	278.007	
2,900.00	2,899.68	2,921.99	2,953.38	9.92	5.98	-151.25	-4,247.48	-75.56	4,262.86	4,246.97	15.89	268.233	
3,000.00	2,999.68	3,044.61	3,075.99	10.27	6.24	-159.99	-4,245.56	-75.41	4,261.85	4,245.35	16.50	258.263	
3,100.00	3,099.67	3,126.00	3,157.37	10.62	6.41	-153.97	-4,244.40	-75.77	4,261.28	4,244.26	17.03	250.265	
3,200.00	3,199.67	3,216.47	3,247.83	10.98	6.60	-157.11	-4,243.40	-76.64	4,261.10	4,243.53	17.57	242.498	
3,300.00	3,299.66	3,327.50	3,358.85	11.33	6.84	-172.33	-4,241.97	-77.82	4,260.68	4,242.51	18.16	234.604	
3,400.00	3,399.66	3,428.13	3,459.46	11.68	7.05	174.85	-4,240.54	-79.03	4,260.37	4,241.64	18.73	227.489	
3,500.00	3,499.65	3,532.65	3,563.96	12.04	7.27	172.05	-4,239.05	-80.24	4,259.91	4,240.61	19.30	220.741	
3,600.00	3,599.65	3,654.95	3,686.24	12.39	7.53	-142.86	-4,236.82	-81.35	4,258.44	4,238.54	19.91	213.915	
3,700.00	3,699.65	3,755.74	3,787.00	12.74	7.74	-160.11	-4,234.68	-82.23	4,256.85	4,236.38	20.48	207.904	
3,800.00	3,799.65	3,838.98	3,870.22	13.10	7.92	-143.86	-4,233.15	-83.01	4,255.59	4,234.59	21.00	202.628	
3,900.00	3,899.65	3,931.98	3,963.21	13.45	8.11	-27.04	-4,231.70	-83.90	4,253.96	4,232.42	21.54	197.473	
4,000.00	3,999.64	4,034.16	4,065.36	13.79	8.33	-55.07	-4,230.14	-85.07	4,251.95	4,229.85	22.10	192.401	
4,100.00	4,099.64	4,132.96	4,164.15	14.13	8.53	-57.46	-4,228.59	-86.01	4,249.83	4,227.17	22.65	187.615	
4,200.00	4,199.64	4,229.03	4,260.21	14.48	8.73	9.20	-4,227.17	-86.47	4,247.99	4,224.79	23.20	183.119	
4,300.00	4,299.62	4,314.57	4,345.74	14.82	8.91	58.02	-4,226.05	-86.44	4,245.75	4,222.03	23.72	179.012	
4,400.00	4,399.56	4,402.22	4,433.39	15.16	9.09	63.92	-4,225.29	-85.85	4,243.16	4,218.92	24.24	175.054	
4,500.00	4,499.52	4,496.74	4,527.90	15.50	9.29	68.39	-4,224.60	-84.78	4,241.40	4,216.63	24.78	171.186	
4,600.00	4,599.48	4,584.93	4,616.08	15.84	9.47	65.42	-4,224.13	-83.58	4,239.70	4,214.39	25.30	167.564	
4,700.00	4,699.36	4,667.65	4,698.78	16.19	9.65	62.85	-4,224.00	-81.83	4,237.37	4,211.55	25.82	164.133	
4,800.00	4,799.16	4,749.59	4,780.69	16.53	9.82	63.74	-4,224.25	-79.57	4,234.69	4,208.36	26.33	160.826	
4,900.00	4,899.01	4,847.91	4,878.96	16.87	10.02	66.16	-4,224.78	-76.48	4,232.90	4,206.02	26.88	157.463	
5,000.00	4,998.96	4,948.42	4,979.41	17.22	10.24	62.47	-4,225.26	-73.29	4,231.87	4,204.44	27.44	154.235	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 121-MWD													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toelface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,098.90	5,017.00	5,047.96	17.56	10.38	63.49	-4,225.73	-71.05	4,231.03	4,203.11	27.92	151.514		
5,200.00	5,198.84	5,112.00	5,142.93	17.91	10.58	60.58	-4,226.96	-69.36	4,230.66	4,202.19	28.47	148.605		
5,207.98	5,206.82	5,112.00	5,142.93	17.94	10.58	61.38	-4,226.96	-69.36	4,230.65	4,202.15	28.50	148.464		
5,300.00	5,298.82	5,187.32	5,218.22	18.26	10.73	94.97	-4,228.32	-70.48	4,231.67	4,202.70	28.97	146.075		
5,400.00	5,398.81	5,248.52	5,279.35	18.60	10.86	-137.11	-4,229.62	-73.20	4,234.82	4,205.38	29.44	143.851		
5,500.00	5,498.79	5,303.00	5,333.66	18.96	10.97	-134.54	-4,231.38	-77.03	4,239.52	4,209.63	29.89	141.826		
5,600.00	5,598.78	5,343.07	5,373.53	19.31	11.05	-126.83	-4,233.15	-80.70	4,245.19	4,214.88	30.31	140.063		
5,700.00	5,698.77	5,397.00	5,427.02	19.66	11.16	-128.30	-4,236.31	-86.77	4,252.08	4,221.32	30.75	138.259		
5,800.00	5,798.76	14,253.74	9,905.31	20.01	78.93	-50.85	-10.60	-1,015.41	4,235.62	4,187.26	48.36	87.582		
5,900.00	5,898.75	14,255.80	9,905.32	20.36	78.97	-52.67	-8.54	-1,015.40	4,138.55	4,089.78	48.77	84.863		
6,000.00	5,998.74	14,258.09	9,905.33	20.72	79.00	-54.10	-6.25	-1,015.39	4,041.60	3,992.41	49.19	82.162		
6,100.00	6,098.73	14,260.50	9,905.34	21.07	79.04	-54.01	-3.83	-1,015.37	3,944.79	3,895.15	49.63	79.481		
6,200.00	6,198.72	14,262.90	9,905.35	21.42	79.08	-54.64	-1.43	-1,015.36	3,848.13	3,798.04	50.09	76.821		
6,300.00	6,298.70	14,265.46	9,905.37	21.77	79.12	-53.18	1.13	-1,015.35	3,751.62	3,701.04	50.57	74.183		
6,400.00	6,398.69	14,267.40	9,905.37	22.13	79.15	1.94	3.07	-1,015.34	3,655.22	3,604.15	51.07	71.575		
6,500.00	6,498.67	14,266.84	9,905.37	22.47	79.14	33.14	2.51	-1,015.34	3,558.89	3,507.33	51.56	69.019		
6,600.00	6,598.65	14,265.76	9,905.37	22.82	79.13	69.64	1.43	-1,015.35	3,462.84	3,410.76	52.08	66.487		
6,700.00	6,698.64	14,265.60	9,905.37	23.16	79.12	156.41	1.27	-1,015.35	3,367.60	3,314.94	52.66	63.951		
6,800.00	6,798.64	14,266.00	9,905.37	23.51	79.13	-177.99	1.67	-1,015.35	3,272.78	3,219.50	53.28	61.426		
6,900.00	6,898.64	14,266.74	9,905.37	23.86	79.14	-168.58	2.40	-1,015.34	3,178.24	3,124.30	53.94	58.922		
7,000.00	6,998.64	14,267.36	9,905.37	24.20	79.15	167.53	3.03	-1,015.34	3,083.99	3,029.35	54.64	56.446		
7,100.00	7,098.63	14,267.65	9,905.38	24.55	79.16	127.61	3.32	-1,015.34	2,990.05	2,934.68	55.37	54.001		
7,200.00	7,198.63	14,267.52	9,905.38	24.89	79.15	123.71	3.19	-1,015.34	2,896.51	2,840.36	56.15	51.587		
7,300.00	7,298.63	14,267.31	9,905.37	25.23	79.15	128.85	2.97	-1,015.34	2,803.46	2,746.48	56.98	49.202		
7,400.00	7,398.63	14,267.21	9,905.37	25.58	79.15	120.67	2.87	-1,015.34	2,710.86	2,652.99	57.87	46.846		
7,500.00	7,498.62	14,266.97	9,905.37	25.92	79.15	112.26	2.64	-1,015.34	2,618.79	2,559.98	58.82	44.523		
7,600.00	7,598.62	14,266.24	9,905.37	26.27	79.13	106.37	1.91	-1,015.35	2,527.32	2,467.49	59.84	42.238		
7,700.00	7,698.61	14,264.94	9,905.36	26.62	79.11	108.27	0.60	-1,015.35	2,436.58	2,375.66	60.93	39.991		
7,800.00	7,798.59	14,263.63	9,905.36	26.96	79.09	108.18	-0.70	-1,015.36	2,346.61	2,284.50	62.11	37.783		
7,900.00	7,898.58	14,262.42	9,905.35	27.31	79.07	119.90	-1.92	-1,015.37	2,257.49	2,194.10	63.39	35.615		
8,000.00	7,998.58	14,262.89	9,905.35	27.66	79.08	-124.49	-1.44	-1,015.36	2,169.28	2,104.49	64.78	33.485		
8,100.00	8,098.58	14,264.30	9,905.36	28.01	79.10	-103.58	-0.04	-1,015.36	2,082.02	2,015.72	66.30	31.401		
8,200.00	8,198.58	14,265.57	9,905.37	28.36	79.12	-99.82	1.24	-1,015.35	1,995.93	1,927.98	67.95	29.373		
8,300.00	8,298.58	14,266.40	9,905.37	28.71	79.14	-19.62	2.06	-1,015.35	1,911.09	1,841.36	69.73	27.405		
8,400.00	8,398.57	14,266.82	9,905.37	29.06	79.14	32.47	2.49	-1,015.34	1,827.63	1,755.97	71.66	25.504		
8,500.00	8,498.57	14,266.86	9,905.37	29.40	79.14	48.78	2.53	-1,015.34	1,745.84	1,672.09	73.75	23.673		
8,600.00	8,598.57	14,266.61	9,905.37	29.75	79.14	45.55	2.28	-1,015.34	1,665.93	1,589.92	76.01	21.917		
8,700.00	8,698.56	14,266.22	9,905.37	30.10	79.13	42.64	1.89	-1,015.35	1,588.17	1,509.71	78.46	20.242		
8,800.00	8,798.55	14,265.77	9,905.37	30.45	79.13	35.16	1.44	-1,015.35	1,512.84	1,431.75	81.10	18.655		
8,900.00	8,898.54	14,265.36	9,905.37	30.80	79.12	38.94	1.02	-1,015.35	1,440.51	1,356.58	83.93	17.163		
9,000.00	8,998.54	14,265.00	9,905.36	31.15	79.11	44.20	0.67	-1,015.35	1,371.83	1,284.86	86.97	15.774		
9,100.00	9,098.53	14,264.72	9,905.36	31.49	79.11	53.47	0.38	-1,015.35	1,307.37	1,217.19	90.18	14.497		
9,200.00	9,198.53	14,264.15	9,905.36	31.84	79.10	63.41	-0.18	-1,015.36	1,247.66	1,154.15	93.52	13.342		
9,300.00	9,298.52	14,263.58	9,905.36	32.19	79.09	80.52	-0.75	-1,015.36	1,193.52	1,096.61	96.91	12.315		
9,400.00	9,398.52	14,263.31	9,905.36	32.54	79.09	105.79	-1.03	-1,015.36	1,146.05	1,045.77	100.28	11.428		
9,500.00	9,498.51	14,262.69	9,905.35	32.89	79.08	106.22	-1.64	-1,015.36	1,105.65	1,002.17	103.48	10.685		
9,600.00	9,598.51	14,262.94	9,905.35	33.23	79.08	-143.94	-1.40	-1,015.36	1,073.19	966.83	106.36	10.090		
9,700.00	9,698.51	14,264.24	9,905.36	33.58	79.10	-105.38	-0.10	-1,015.36	1,049.39	940.61	108.78	9.647		
9,800.00	9,798.50	14,266.09	9,905.37	33.93	79.13	-86.92	1.75	-1,015.35	1,034.44	923.86	110.58	9.355		
9,900.00	9,898.48	14,268.30	9,905.38	34.28	79.17	-90.17	3.96	-1,015.34	1,028.80	917.16	111.64	9.215		
9,906.12	9,904.60	14,268.43	9,905.38	34.30	79.17	-92.70	4.10	-1,015.33	1,028.78	917.10	111.68	9.212 CC, ES, SF		
10,000.00	9,998.47	14,270.20	9,905.39	34.63	79.20	-142.81	5.86	-1,015.33	1,033.44	921.53	111.91	9.235		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 121-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toelface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	10,098.45	14,271.00	9,905.39	34.98	79.21	175.74	6.66	-1,015.32	1,049.08	937.68	111.39	9.418	
10,200.00	10,198.42	14,271.23	9,905.39	35.33	79.21	-176.51	6.89	-1,015.32	1,074.18	963.99	110.19	9.748	
10,300.00	10,298.42	14,271.85	9,905.39	35.68	79.22	-156.01	7.52	-1,015.32	1,106.40	997.96	108.45	10.202	
10,400.00	10,398.42	14,272.54	9,905.40	36.03	79.23	-62.53	8.21	-1,015.31	1,145.90	1,039.60	106.30	10.780	
10,500.00	10,498.42	14,272.83	9,905.40	36.38	79.24	34.54	8.49	-1,015.31	1,191.92	1,088.04	103.88	11.474	
10,600.00	10,598.41	14,272.50	9,905.40	36.72	79.23	46.14	8.16	-1,015.31	1,243.97	1,142.65	101.32	12.278	
10,700.00	10,698.40	14,271.67	9,905.39	37.07	79.22	68.86	7.34	-1,015.32	1,301.82	1,203.08	98.74	13.184	
10,800.00	10,798.39	14,270.69	9,905.39	37.42	79.21	54.15	6.36	-1,015.32	1,364.42	1,268.21	96.22	14.180	
10,900.00	10,898.37	14,269.46	9,905.38	37.77	79.19	52.53	5.13	-1,015.33	1,431.09	1,337.29	93.81	15.256	
11,000.00	10,998.36	14,268.97	9,905.38	38.12	79.18	10.09	4.64	-1,015.33	1,501.25	1,409.71	91.55	16.399	
11,100.00	11,098.34	14,269.66	9,905.38	38.47	79.19	-13.02	5.32	-1,015.33	1,574.41	1,484.95	89.46	17.599	
11,200.00	11,198.33	14,271.00	9,905.39	38.82	79.21	-4.26	6.67	-1,015.32	1,650.51	1,562.95	87.56	18.850	
11,300.00	11,298.32	14,271.00	9,905.39	39.17	79.21	-22.47	6.67	-1,015.32	1,729.29	1,643.44	85.84	20.144	
11,400.00	11,398.31	14,272.07	9,905.39	39.52	79.23	-43.17	7.74	-1,015.32	1,810.27	1,725.96	84.31	21.471	
11,500.00	11,498.30	14,273.96	9,905.40	39.87	79.26	-45.43	9.62	-1,015.30	1,892.84	1,809.90	82.94	22.822	
11,600.00	11,598.26	14,276.40	9,905.41	40.22	79.30	-40.85	12.07	-1,015.29	1,976.76	1,895.05	81.71	24.192	
11,700.00	11,698.13	14,281.22	9,905.43	40.57	79.38	-72.77	16.88	-1,015.26	2,061.90	1,981.26	80.64	25.569	
11,800.00	11,797.26	14,295.07	9,905.49	40.92	79.60	-56.64	30.73	-1,015.18	2,147.72	2,067.93	79.80	26.915	
11,900.00	11,894.04	14,319.36	9,905.60	41.25	79.99	-39.09	55.03	-1,015.01	2,228.75	2,149.76	78.99	28.216	
12,000.00	11,984.36	14,360.82	9,905.80	41.58	80.66	-33.92	96.48	-1,014.68	2,302.04	2,223.71	78.33	29.387	
12,100.00	12,063.58	14,413.39	9,906.00	41.88	81.51	-30.13	149.05	-1,014.25	2,366.67	2,288.69	77.99	30.347	
12,200.00	12,127.93	14,482.11	9,906.11	42.16	82.63	-26.93	217.77	-1,013.88	2,420.97	2,342.93	78.05	31.019	
12,300.00	12,174.23	14,570.26	9,906.51	42.41	84.08	-25.19	305.92	-1,014.25	2,465.43	2,386.69	78.74	31.310	
12,400.00	12,207.18	14,577.00	9,906.55	42.64	84.19	-23.28	312.66	-1,014.28	2,507.56	2,427.94	79.63	31.491	
12,500.00	12,226.06	14,577.00	9,906.55	42.85	84.19	-21.85	312.66	-1,014.28	2,543.18	2,462.45	80.73	31.501	
12,600.00	12,231.93	14,577.00	9,906.55	43.07	84.19	-21.05	312.66	-1,014.28	2,571.31	2,489.33	81.98	31.365	
12,700.00	12,232.01	14,577.00	9,906.55	43.31	84.19	-21.37	312.66	-1,014.28	2,597.75	2,514.47	83.28	31.194	
12,800.00	12,232.36	14,577.00	9,906.55	46.60	84.19	-23.16	312.66	-1,014.28	2,625.05	2,541.70	83.35	31.494	
12,900.00	12,231.44	14,577.00	9,906.55	46.64	84.19	-23.37	312.66	-1,014.28	2,652.00	2,567.81	84.19	31.500	
13,000.00	12,231.18	14,577.00	9,906.55	46.69	84.19	-23.90	312.66	-1,014.28	2,682.50	2,597.49	85.01	31.554	
13,100.00	12,230.71	14,577.00	9,906.55	46.74	84.19	-24.47	312.66	-1,014.28	2,714.94	2,629.16	85.78	31.650	
13,200.00	12,230.03	14,577.00	9,906.55	46.79	84.19	-25.07	312.66	-1,014.28	2,749.21	2,662.72	86.49	31.787	
13,300.00	12,229.13	14,577.00	9,906.55	46.86	84.19	-25.71	312.66	-1,014.28	2,785.22	2,698.09	87.13	31.967	
13,400.00	12,228.02	14,577.00	9,906.55	46.94	84.19	-26.38	312.66	-1,014.28	2,822.85	2,735.15	87.70	32.188	
13,500.00	12,226.71	14,577.00	9,906.55	47.07	84.19	-27.08	312.66	-1,014.28	2,862.01	2,773.82	88.19	32.451	
13,600.00	12,225.18	14,577.00	9,906.55	47.30	84.19	-27.81	312.66	-1,014.28	2,902.60	2,813.98	88.62	32.754	
13,700.00	12,223.54	14,577.00	9,906.55	47.68	84.19	-27.84	312.66	-1,014.28	2,945.23	2,856.24	88.99	33.096	
13,800.00	12,221.91	14,577.00	9,906.55	48.18	84.19	-27.84	312.66	-1,014.28	2,990.60	2,901.26	89.34	33.473	
13,900.00	12,221.16	14,577.00	9,906.55	48.74	84.19	-28.05	312.66	-1,014.28	3,039.27	2,949.60	89.67	33.895	
14,000.00	12,220.99	14,577.00	9,906.55	49.34	84.19	-28.05	312.66	-1,014.28	3,090.84	3,000.88	89.96	34.357	
14,100.00	12,220.82	14,577.00	9,906.55	49.99	84.19	-28.05	312.66	-1,014.28	3,144.74	3,054.51	90.23	34.852	
14,200.00	12,220.64	14,577.00	9,906.55	50.66	84.19	-28.05	312.66	-1,014.28	3,200.86	3,110.38	90.48	35.377	
14,300.00	12,220.47	14,577.00	9,906.55	51.36	84.19	-28.05	312.66	-1,014.28	3,259.09	3,168.38	90.70	35.931	
14,400.00	12,220.29	14,577.00	9,906.55	52.08	84.19	-28.05	312.66	-1,014.28	3,319.30	3,228.40	90.90	36.514	
14,500.00	12,220.12	14,577.00	9,906.55	52.83	84.19	-28.05	312.66	-1,014.28	3,381.40	3,290.32	91.08	37.124	
14,600.00	12,219.94	14,577.00	9,906.55	53.60	84.19	-28.05	312.66	-1,014.28	3,445.29	3,354.05	91.24	37.760	
14,700.00	12,219.77	14,577.00	9,906.55	54.40	84.19	-28.05	312.66	-1,014.28	3,510.86	3,419.48	91.38	38.421	
14,800.00	12,219.59	14,577.00	9,906.55	55.21	84.19	-28.05	312.66	-1,014.28	3,578.02	3,486.52	91.50	39.104	
14,900.00	12,219.42	14,577.00	9,906.55	56.04	84.19	-28.05	312.66	-1,014.28	3,646.69	3,555.09	91.60	39.810	
15,000.00	12,219.24	14,577.00	9,906.55	56.89	84.19	-28.05	312.66	-1,014.28	3,716.79	3,625.09	91.69	40.536	
15,100.00	12,219.07	14,577.00	9,906.55	57.76	84.19	-28.05	312.66	-1,014.28	3,788.22	3,696.46	91.76	41.282	
15,200.00	12,218.90	14,577.00	9,906.55	58.64	84.19	-28.05	312.66	-1,014.28	3,860.92	3,769.10	91.83	42.046	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 121-MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis					Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,300.00	12,218.72	14,577.00	9,906.55	59.54	84.19	-28.05	312.66	-1,014.28	3,934.83	3,842.95	91.87	42.828	
15,400.00	12,218.55	14,577.00	9,906.55	60.46	84.19	-28.05	312.66	-1,014.28	4,009.86	3,917.95	91.91	43.627	
15,500.00	12,218.37	14,577.00	9,906.55	61.39	84.19	-28.05	312.66	-1,014.28	4,085.96	3,994.02	91.94	44.441	
15,600.00	12,218.20	14,577.00	9,906.55	62.33	84.19	-28.05	312.66	-1,014.28	4,163.08	4,071.12	91.96	45.270	
15,700.00	12,218.02	14,577.00	9,906.55	63.29	84.19	-28.05	312.66	-1,014.28	4,241.15	4,149.17	91.97	46.112	
15,800.00	12,217.85	14,577.00	9,906.55	64.25	84.19	-28.05	312.66	-1,014.28	4,320.12	4,228.14	91.98	46.967	
15,900.00	12,217.67	14,577.00	9,906.55	65.24	84.19	-28.05	312.66	-1,014.28	4,399.95	4,307.97	91.98	47.835	
16,000.00	12,217.50	14,577.00	9,906.55	66.23	84.19	-28.05	312.66	-1,014.28	4,480.59	4,388.61	91.98	48.713	
16,100.00	12,217.33	14,577.00	9,906.55	67.23	84.19	-28.05	312.66	-1,014.28	4,562.00	4,470.03	91.97	49.603	
16,200.00	12,217.15	14,577.00	9,906.55	68.24	84.19	-28.05	312.66	-1,014.28	4,644.13	4,552.17	91.96	50.502	
16,300.00	12,216.98	14,577.00	9,906.55	69.27	84.19	-28.05	312.66	-1,014.28	4,726.95	4,635.01	91.94	51.411	
16,400.00	12,216.80	14,577.00	9,906.55	70.30	84.19	-28.05	312.66	-1,014.28	4,810.42	4,718.50	91.93	52.328	
16,500.00	12,216.63	14,577.00	9,906.55	71.34	84.19	-28.05	312.66	-1,014.28	4,894.52	4,802.61	91.91	53.254	
16,600.00	12,216.45	14,577.00	9,906.55	72.39	84.19	-28.05	312.66	-1,014.28	4,979.20	4,887.31	91.89	54.187	
16,700.00	12,216.28	14,577.00	9,906.55	73.45	84.19	-28.05	312.66	-1,014.28	5,064.44	4,972.57	91.87	55.128	
16,800.00	12,216.10	14,577.00	9,906.55	74.52	84.19	-28.05	312.66	-1,014.28	5,150.21	5,058.36	91.85	56.075	
16,900.00	12,215.93	14,577.00	9,906.55	75.60	84.19	-28.05	312.66	-1,014.28	5,236.49	5,144.66	91.82	57.028	
17,000.00	12,215.75	14,577.00	9,906.55	76.68	84.19	-28.05	312.66	-1,014.28	5,323.24	5,231.44	91.80	57.987	
17,100.00	12,215.58	14,577.00	9,906.55	77.77	84.19	-28.05	312.66	-1,014.28	5,410.45	5,318.68	91.78	58.952	
17,200.00	12,215.41	14,577.00	9,906.55	78.86	84.19	-28.05	312.66	-1,014.28	5,498.10	5,406.35	91.76	59.921	
17,300.00	12,215.23	14,577.00	9,906.55	79.97	84.19	-28.05	312.66	-1,014.28	5,586.17	5,494.43	91.73	60.896	
17,400.00	12,215.06	14,577.00	9,906.55	81.07	84.19	-28.05	312.66	-1,014.28	5,674.63	5,582.91	91.71	61.874	
17,500.00	12,214.88	14,577.00	9,906.55	82.19	84.19	-28.05	312.66	-1,014.28	5,763.46	5,671.77	91.69	62.856	
17,600.00	12,214.71	14,577.00	9,906.55	83.31	84.19	-28.05	312.66	-1,014.28	5,852.66	5,760.99	91.67	63.842	
17,700.00	12,214.53	14,577.00	9,906.55	84.44	84.19	-28.05	312.66	-1,014.28	5,942.20	5,850.54	91.66	64.832	
17,800.00	12,214.36	14,577.00	9,906.55	85.57	84.19	-28.05	312.66	-1,014.28	6,032.07	5,940.43	91.64	65.824	
17,900.00	12,214.18	14,577.00	9,906.55	86.70	84.19	-28.05	312.66	-1,014.28	6,122.25	6,030.63	91.62	66.819	
18,000.00	12,214.01	14,577.00	9,906.55	87.84	84.19	-28.05	312.66	-1,014.28	6,212.74	6,121.13	91.61	67.817	
18,100.00	12,213.83	14,577.00	9,906.55	88.99	84.19	-28.05	312.66	-1,014.28	6,303.51	6,211.91	91.60	68.817	
18,200.00	12,213.66	14,577.00	9,906.55	90.14	84.19	-28.05	312.66	-1,014.28	6,394.56	6,302.97	91.59	69.819	
18,300.00	12,213.49	14,577.00	9,906.55	91.30	84.19	-28.05	312.66	-1,014.28	6,485.87	6,394.29	91.58	70.823	
18,400.00	12,213.31	14,577.00	9,906.55	92.45	84.19	-28.05	312.66	-1,014.28	6,577.43	6,485.86	91.57	71.829	
18,500.00	12,213.14	14,577.00	9,906.55	93.62	84.19	-28.05	312.66	-1,014.28	6,669.24	6,577.67	91.56	72.836	
18,600.00	12,212.96	14,577.00	9,906.55	94.78	84.19	-28.05	312.66	-1,014.28	6,761.27	6,669.71	91.56	73.845	
18,700.00	12,212.79	14,577.00	9,906.55	95.95	84.19	-28.05	312.66	-1,014.28	6,853.54	6,761.98	91.56	74.854	
18,800.00	12,212.61	14,577.00	9,906.55	97.13	84.19	-28.05	312.66	-1,014.28	6,946.01	6,854.45	91.56	75.865	
18,900.00	12,212.44	14,577.00	9,906.55	98.31	84.19	-28.05	312.66	-1,014.28	7,038.69	6,947.13	91.56	76.876	
19,000.00	12,212.26	14,577.00	9,906.55	99.49	84.19	-28.05	312.66	-1,014.28	7,131.57	7,040.01	91.56	77.887	
19,100.00	12,212.09	14,577.00	9,906.55	100.67	84.19	-28.05	312.66	-1,014.28	7,224.64	7,133.07	91.57	78.900	
19,200.00	12,211.91	14,577.00	9,906.55	101.86	84.19	-28.05	312.66	-1,014.28	7,317.89	7,226.32	91.57	79.912	
19,300.00	12,211.74	14,577.00	9,906.55	103.05	84.19	-28.05	312.66	-1,014.28	7,411.32	7,319.74	91.58	80.925	
19,400.00	12,211.57	14,577.00	9,906.55	104.24	84.19	-28.05	312.66	-1,014.28	7,504.92	7,413.32	91.59	81.937	
19,500.00	12,211.39	14,577.00	9,906.55	105.44	84.19	-28.05	312.66	-1,014.28	7,598.68	7,507.07	91.61	82.950	
19,600.00	12,211.22	14,577.00	9,906.55	106.64	84.19	-28.05	312.66	-1,014.28	7,692.60	7,600.98	91.62	83.962	
19,700.00	12,211.04	14,577.00	9,906.55	107.84	84.19	-28.05	312.66	-1,014.28	7,786.66	7,695.03	91.64	84.974	
19,800.00	12,210.87	14,577.00	9,906.55	109.04	84.19	-28.05	312.66	-1,014.28	7,880.88	7,789.23	91.65	85.986	
19,900.00	12,210.69	14,577.00	9,906.55	110.25	84.19	-28.05	312.66	-1,014.28	7,975.24	7,883.56	91.67	86.997	
20,000.00	12,210.52	14,577.00	9,906.55	111.46	84.19	-28.05	312.66	-1,014.28	8,069.73	7,978.03	91.69	88.008	
20,100.00	12,210.34	14,577.00	9,906.55	112.67	84.19	-28.05	312.66	-1,014.28	8,164.35	8,072.64	91.72	89.017	
20,200.00	12,210.17	14,577.00	9,906.55	113.88	84.19	-28.05	312.66	-1,014.28	8,259.10	8,167.36	91.74	90.026	
20,300.00	12,209.99	14,577.00	9,906.55	115.10	84.19	-28.05	312.66	-1,014.28	8,353.97	8,262.21	91.77	91.034	
20,400.00	12,209.82	14,577.00	9,906.55	116.31	84.19	-28.05	312.66	-1,014.28	8,448.96	8,357.17	91.80	92.042	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 121-MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,500.00	12,209.65	14,577.00	9,906.55	117.53	84.19	-28.05	312.66	-1,014.28	8,544.07	8,452.24	91.82	93.048	
20,600.00	12,209.47	14,577.00	9,906.55	118.75	84.19	-28.05	312.66	-1,014.28	8,639.28	8,547.43	91.86	94.052	
20,700.00	12,209.30	14,577.00	9,906.55	119.98	84.19	-28.05	312.66	-1,014.28	8,734.61	8,642.72	91.89	95.056	
20,800.00	12,209.12	14,577.00	9,906.55	121.20	84.19	-28.05	312.66	-1,014.28	8,830.03	8,738.11	91.92	96.058	
20,900.00	12,208.95	14,577.00	9,906.55	122.43	84.19	-28.05	312.66	-1,014.28	8,925.56	8,833.60	91.96	97.059	
21,000.00	12,208.77	14,577.00	9,906.55	123.66	84.19	-28.05	312.66	-1,014.28	9,021.18	8,929.18	92.00	98.059	
21,100.00	12,208.60	14,577.00	9,906.55	124.89	84.19	-28.05	312.66	-1,014.28	9,116.90	9,024.86	92.04	99.057	
21,200.00	12,208.42	14,577.00	9,906.55	126.12	84.19	-28.05	312.66	-1,014.28	9,212.71	9,120.63	92.08	100.053	
21,300.00	12,208.25	14,577.00	9,906.55	127.35	84.19	-28.05	312.66	-1,014.28	9,308.60	9,216.48	92.12	101.048	
21,400.00	12,208.07	14,577.00	9,906.55	128.59	84.19	-28.05	312.66	-1,014.28	9,404.58	9,312.42	92.16	102.041	
21,500.00	12,207.90	14,577.00	9,906.55	129.82	84.19	-28.05	312.66	-1,014.28	9,500.65	9,408.44	92.21	103.033	
21,600.00	12,207.73	14,577.00	9,906.55	131.06	84.19	-28.05	312.66	-1,014.28	9,596.79	9,504.54	92.26	104.023	
21,700.00	12,207.55	14,577.00	9,906.55	132.30	84.19	-28.05	312.66	-1,014.28	9,693.02	9,600.71	92.31	105.011	
21,800.00	12,207.38	14,577.00	9,906.55	133.54	84.19	-28.05	312.66	-1,014.28	9,789.31	9,696.96	92.36	105.997	
21,900.00	12,207.20	14,577.00	9,906.55	134.78	84.19	-28.05	312.66	-1,014.28	9,885.69	9,793.28	92.41	106.981	
22,000.00	12,207.03	14,577.00	9,906.55	136.03	84.19	-28.05	312.66	-1,014.28	9,982.13	9,889.67	92.46	107.963	
22,100.00	12,206.85	14,577.00	9,906.55	137.27	84.19	-28.05	312.66	-1,014.28	10,078.64	9,986.13	92.51	108.943	
22,200.00	12,206.68	14,577.00	9,906.55	138.52	84.19	-28.05	312.66	-1,014.28	10,175.22	10,082.65	92.57	109.921	
22,300.00	12,206.50	14,577.00	9,906.55	139.76	84.19	-28.05	312.66	-1,014.28	10,271.87	10,179.24	92.63	110.897	
22,400.00	12,206.33	14,577.00	9,906.55	141.01	84.19	-28.05	312.66	-1,014.28	10,368.58	10,275.89	92.68	111.871	
22,500.00	12,206.16	14,577.00	9,906.55	142.26	84.19	-28.05	312.66	-1,014.28	10,465.35	10,372.61	92.74	112.843	
22,600.00	12,205.98	14,577.00	9,906.55	143.51	84.19	-28.05	312.66	-1,014.28	10,562.18	10,469.38	92.80	113.812	
22,700.00	12,205.81	14,577.00	9,906.55	144.76	84.19	-28.05	312.66	-1,014.28	10,659.07	10,566.20	92.87	114.780	
22,800.00	12,205.63	14,577.00	9,906.55	146.02	84.19	-28.05	312.66	-1,014.28	10,756.02	10,663.09	92.93	115.745	
22,900.00	12,205.46	14,577.00	9,906.55	147.27	84.19	-28.05	312.66	-1,014.28	10,853.02	10,760.03	92.99	116.708	
23,000.00	12,205.28	14,577.00	9,906.55	148.52	84.19	-28.05	312.66	-1,014.28	10,950.07	10,857.02	93.06	117.668	
23,100.00	12,205.11	14,577.00	9,906.55	149.78	84.19	-28.05	312.66	-1,014.28	11,047.18	10,954.06	93.13	118.626	
23,200.00	12,204.93	14,577.00	9,906.55	151.04	84.19	-28.05	312.66	-1,014.28	11,144.34	11,051.15	93.19	119.582	
23,251.42	12,204.84	14,577.00	9,906.55	151.68	84.19	-28.05	312.66	-1,014.28	11,194.32	11,101.09	93.23	120.073	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 214H - OH - Plan 3 11-24-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	5.50	1.00	1.00	-90.58	-5.35	-530.11	530.17					
100.00	100.00	94.50	100.00	1.01	1.08	-104.51	-5.35	-530.11	530.29	528.20	2.09	254.018		
200.00	199.98	194.48	199.98	1.08	1.57	-77.37	-5.35	-530.11	530.44	527.79	2.65	200.115		
300.00	299.96	294.46	299.96	1.26	1.99	-62.74	-5.35	-530.11	529.64	526.39	3.25	162.785		
376.44	376.39	370.89	376.39	1.45	2.25	-96.31	-5.35	-530.11	529.36	525.66	3.70	143.000		
400.00	399.95	394.45	399.95	1.51	2.34	-107.27	-5.35	-530.11	529.26	525.42	3.85	137.634		
500.00	499.92	494.42	499.92	1.79	2.64	-147.92	-5.35	-530.11	530.65	526.22	4.43	119.780		
600.00	599.89	594.39	599.89	2.09	2.91	-154.27	-5.35	-530.11	533.00	527.99	5.01	106.465		
700.00	699.85	694.35	699.85	2.41	3.17	-159.27	-5.35	-530.11	535.46	529.88	5.58	96.044		
800.00	799.82	794.32	799.82	2.74	3.40	-164.18	-5.35	-530.11	538.03	531.89	6.14	87.675		
900.00	899.80	894.30	899.80	3.07	3.62	176.01	-5.35	-530.11	539.55	532.86	6.69	80.657		
1,000.00	999.80	994.30	999.80	3.40	3.84	165.48	-5.35	-530.11	540.44	533.21	7.23	74.704		
1,100.00	1,099.80	1,094.30	1,099.80	3.74	4.04	173.27	-5.35	-530.11	541.08	533.30	7.77	69.597		
1,200.00	1,199.79	1,194.29	1,199.79	4.08	4.23	-151.03	-5.35	-530.11	541.57	533.26	8.31	65.159		
1,300.00	1,299.79	1,294.29	1,299.79	4.43	4.42	-101.30	-5.35	-530.11	541.91	533.06	8.84	61.276		
1,400.00	1,399.79	1,394.90	1,400.40	4.77	4.52	-64.75	-5.09	-530.09	541.74	532.46	9.28	58.371		
1,500.00	1,499.78	1,496.24	1,501.70	5.11	4.84	-48.14	-2.56	-529.93	540.79	531.01	9.78	55.287		
1,600.00	1,599.77	1,597.14	1,602.47	5.45	5.11	-31.64	2.56	-529.60	538.94	528.70	10.23	52.660		
1,700.00	1,699.75	1,696.99	1,702.15	5.79	5.30	-17.92	8.41	-529.23	536.86	526.14	10.72	50.091		
1,800.00	1,799.74	1,796.83	1,801.81	6.13	5.53	-20.41	14.27	-528.85	535.02	523.79	11.22	47.667		
1,900.00	1,899.73	1,896.67	1,901.48	6.47	5.77	-19.54	20.12	-528.48	533.22	521.49	11.73	45.456		
2,000.00	1,999.72	1,996.50	2,001.14	6.81	6.02	2.11	25.97	-528.10	531.63	519.40	12.23	43.456		
2,100.00	2,099.71	2,096.30	2,100.76	7.15	6.28	33.49	31.83	-527.72	530.43	517.69	12.73	41.659		
2,200.00	2,199.71	2,196.09	2,200.39	7.49	6.55	13.67	37.68	-527.35	529.30	516.07	13.23	40.007		
2,300.00	2,299.70	2,295.90	2,300.02	7.83	6.83	9.96	43.53	-526.97	528.00	514.27	13.73	38.460		
2,400.00	2,399.69	2,395.70	2,399.65	8.18	7.11	22.86	49.38	-526.60	526.80	512.57	14.23	37.031		
2,500.00	2,499.69	2,495.49	2,499.27	8.52	7.40	36.95	55.24	-526.22	526.03	511.30	14.72	35.732		
2,600.00	2,599.68	2,595.29	2,598.90	8.87	7.70	28.37	61.09	-525.85	525.45	510.23	15.22	34.530		
2,700.00	2,699.68	2,695.10	2,698.54	9.21	8.00	9.18	66.94	-525.47	525.01	509.29	15.71	33.410		
2,800.00	2,799.68	2,794.93	2,798.19	9.56	8.30	-23.78	72.80	-525.10	524.69	508.48	16.21	32.362		
2,889.61	2,889.29	2,884.41	2,887.51	9.88	8.58	-51.89	78.04	-524.76	524.60	507.94	16.66	31.486		
2,900.00	2,899.68	2,894.78	2,897.87	9.92	8.61	-55.18	78.65	-524.72	524.58	507.87	16.71	31.387		
3,000.00	2,999.68	2,994.64	2,997.55	10.27	8.92	-63.33	84.51	-524.34	524.69	507.48	17.21	30.482		
3,100.00	3,099.67	3,094.51	3,097.26	10.62	9.24	-56.77	90.36	-523.97	524.65	506.93	17.71	29.618		
3,186.47	3,186.14	3,180.87	3,183.47	10.93	9.51	-58.95	95.43	-523.64	524.61	506.46	18.15	28.910		
3,200.00	3,199.67	3,194.39	3,196.96	10.98	9.56	-59.36	96.22	-523.59	524.57	506.35	18.21	28.800 CC		
3,300.00	3,299.66	3,294.26	3,296.66	11.33	9.87	-74.05	102.08	-523.22	524.76	506.04	18.72	28.039		
3,400.00	3,399.66	3,394.14	3,396.37	11.68	10.20	-86.37	107.93	-522.84	525.19	505.97	19.22	27.331		
3,500.00	3,499.65	3,494.02	3,496.07	12.04	10.52	-88.65	113.79	-522.46	525.80	506.09	19.72	26.668		
3,600.00	3,599.65	3,593.87	3,595.75	12.39	10.85	-42.97	119.65	-522.09	526.35	506.13	20.22	26.031		
3,700.00	3,699.65	3,693.72	3,695.43	12.74	11.17	-59.65	125.50	-521.71	526.76	506.03	20.73	25.416		
3,800.00	3,799.65	3,793.58	3,795.12	13.10	11.50	-42.83	131.36	-521.34	527.20	505.97	21.23	24.830 ES		
3,900.00	3,899.65	3,893.40	3,894.76	13.45	11.83	74.62	137.21	-520.96	527.86	506.12	21.74	24.286		
4,000.00	3,999.64	3,993.19	3,994.39	13.79	12.16	47.28	143.06	-520.59	528.41	506.17	22.24	23.762		
4,100.00	4,099.64	4,092.98	4,094.00	14.13	12.50	45.59	148.92	-520.21	528.74	505.99	22.75	23.245		
4,200.00	4,199.64	4,192.78	4,193.63	14.48	12.83	112.92	154.77	-519.84	529.40	506.14	23.26	22.762		
4,300.00	4,299.62	4,292.54	4,293.22	14.82	13.16	162.39	160.62	-519.46	531.91	508.14	23.77	22.379		
4,400.00	4,399.56	4,392.22	4,392.72	15.16	13.50	168.96	166.46	-519.08	536.57	512.29	24.28	22.099		
4,500.00	4,499.52	4,491.96	4,492.29	15.50	13.83	174.07	172.31	-518.71	540.47	515.68	24.79	21.799		
4,600.00	4,599.48	4,591.68	4,591.84	15.84	14.17	171.71	178.16	-518.33	544.76	519.44	25.31	21.522		
4,700.00	4,699.36	4,691.27	4,691.26	16.19	14.51	169.74	184.00	-517.96	551.00	525.17	25.84	21.327		
4,800.00	4,799.16	4,790.74	4,790.55	16.53	14.85	171.30	189.83	-517.59	558.75	532.39	26.37	21.192		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 214H - OH - Plan 3 11-24-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.00	4,899.01	4,890.30	4,889.94	16.87	15.18	174.38	195.67	-517.21	565.61	538.71	26.90	21.028		
5,000.00	4,998.96	4,990.00	4,989.47	17.22	15.52	171.29	201.52	-516.84	570.60	543.16	27.43	20.799		
5,100.00	5,098.90	5,089.69	5,088.98	17.56	15.86	172.93	207.36	-516.46	575.61	547.64	27.97	20.576		
5,200.00	5,198.84	5,189.37	5,188.49	17.91	16.20	170.60	213.21	-516.08	580.77	552.25	28.52	20.364		
5,300.00	5,298.82	5,289.13	5,288.08	18.26	16.55	-154.48	219.06	-515.71	584.71	555.64	29.07	20.116		
5,400.00	5,398.81	5,389.00	5,387.78	18.60	16.89	-26.15	224.92	-515.33	585.93	556.32	29.61	19.785		
5,500.00	5,498.79	5,488.88	5,487.49	18.96	17.23	-23.15	230.77	-514.96	586.20	556.03	30.17	19.432		
5,600.00	5,598.78	5,588.75	5,587.19	19.31	17.57	-15.00	236.63	-514.58	586.61	555.89	30.73	19.092		
5,700.00	5,698.77	5,688.62	5,686.88	19.66	17.92	-16.03	242.49	-514.21	587.20	555.91	31.29	18.767		
5,800.00	5,798.76	5,788.49	5,786.57	20.01	18.26	-23.53	248.34	-513.83	588.08	556.22	31.86	18.461		
5,900.00	5,898.75	5,888.36	5,886.27	20.36	18.60	-24.79	254.20	-513.45	589.09	556.67	32.43	18.167		
6,000.00	5,998.74	5,988.23	5,985.98	20.72	18.95	-25.43	260.06	-513.08	589.98	556.98	33.00	17.878		
6,100.00	6,098.73	6,088.11	6,085.68	21.07	19.29	-24.91	265.91	-512.70	590.77	557.19	33.58	17.595		
6,200.00	6,198.72	6,188.00	6,185.39	21.42	19.64	-25.02	271.77	-512.33	591.59	557.43	34.16	17.320		
6,300.00	6,298.70	6,288.15	6,285.37	21.77	19.98	-22.94	277.64	-511.95	592.26	557.53	34.73	17.053		
6,400.00	6,398.69	6,394.57	6,391.69	22.13	20.33	29.42	282.28	-511.65	592.36	557.06	35.30	16.782		
6,500.00	6,498.67	6,501.11	6,498.22	22.47	20.61	58.38	283.97	-511.54	591.77	555.93	35.84	16.512		
6,596.46	6,595.11	6,598.01	6,595.11	22.81	20.70	92.79	283.98	-511.54	591.15	554.87	36.28	16.293		
6,600.00	6,598.65	6,601.54	6,598.65	22.82	20.70	96.09	283.98	-511.54	590.95	554.65	36.30	16.278		
6,700.00	6,698.64	6,701.54	6,698.64	23.16	20.76	-176.17	283.98	-511.54	591.54	554.81	36.73	16.103		
6,800.00	6,798.64	6,801.54	6,798.64	23.51	20.81	-149.95	283.98	-511.54	592.36	555.20	37.16	15.941		
6,900.00	6,898.64	6,901.53	6,898.64	23.86	20.87	-140.45	283.98	-511.54	592.93	555.35	37.58	15.776		
7,000.00	6,998.64	7,001.53	6,998.64	24.20	20.93	-164.77	283.98	-511.54	593.41	555.40	38.01	15.611		
7,100.00	7,098.63	7,101.53	7,098.63	24.55	20.98	154.88	283.98	-511.54	593.82	555.38	38.44	15.448		
7,200.00	7,198.63	7,201.53	7,198.63	24.89	21.04	150.56	283.98	-511.54	594.39	555.52	38.87	15.291		
7,300.00	7,298.63	7,301.53	7,298.63	25.23	21.10	155.90	283.98	-511.54	595.08	555.77	39.31	15.140		
7,400.00	7,398.63	7,401.52	7,398.63	25.58	21.16	147.79	283.98	-511.54	595.64	555.90	39.74	14.989		
7,500.00	7,498.62	7,501.52	7,498.62	25.92	21.21	139.08	283.98	-511.54	596.21	556.04	40.17	14.841		
7,600.00	7,598.62	7,601.52	7,598.62	26.27	21.27	132.67	283.98	-511.54	596.96	556.34	40.61	14.699		
7,700.00	7,698.61	7,701.50	7,698.61	26.62	21.33	134.41	283.98	-511.54	598.03	556.98	41.06	14.566		
7,800.00	7,798.59	7,801.49	7,798.59	26.96	21.39	134.47	283.98	-511.54	599.15	557.65	41.50	14.437		
7,900.00	7,898.58	7,901.48	7,898.58	27.31	21.45	147.19	283.98	-511.54	600.26	558.31	41.94	14.311		
8,000.00	7,998.58	8,001.48	7,998.58	27.66	21.50	-95.87	283.98	-511.54	600.66	558.28	42.38	14.175		
8,100.00	8,098.58	8,101.47	8,098.58	28.01	21.56	-74.80	283.98	-511.54	600.51	557.71	42.80	14.031		
8,200.00	8,198.58	8,201.47	8,198.58	28.36	21.62	-71.46	283.98	-511.54	600.34	557.11	43.23	13.888		
8,300.00	8,298.58	8,301.47	8,298.58	28.71	21.68	8.37	283.98	-511.54	600.18	556.52	43.66	13.747		
8,400.00	8,398.57	8,401.47	8,398.57	29.06	21.74	60.18	283.98	-511.54	599.93	555.84	44.09	13.606		
8,500.00	8,498.57	8,501.47	8,498.57	29.40	21.80	76.27	283.98	-511.54	599.72	555.19	44.53	13.467		
8,600.00	8,598.57	8,601.47	8,598.57	29.75	21.86	73.02	283.98	-511.54	599.49	554.52	44.97	13.330		
8,700.00	8,698.56	8,701.46	8,698.56	30.10	21.92	70.15	283.98	-511.54	599.13	553.71	45.42	13.191		
8,800.00	8,798.55	8,801.45	8,798.55	30.45	21.98	62.82	283.98	-511.54	598.56	552.70	45.87	13.051		
8,900.00	8,898.54	8,901.44	8,898.54	30.80	22.04	66.77	283.98	-511.54	597.98	551.67	46.31	12.912		
9,000.00	8,998.54	9,001.43	8,998.54	31.15	22.10	72.18	283.98	-511.54	597.57	550.81	46.76	12.780		
9,100.00	9,098.53	9,101.43	9,098.53	31.49	22.16	81.55	283.98	-511.54	597.33	550.13	47.20	12.655		
9,182.15	9,180.68	9,183.58	9,180.68	31.78	22.20	90.00	283.98	-511.54	597.27	549.71	47.57	12.557		
9,200.00	9,198.53	9,201.42	9,198.53	31.84	22.22	91.50	283.98	-511.54	597.28	549.63	47.65	12.536		
9,300.00	9,298.52	9,301.42	9,298.52	32.19	22.28	108.82	283.98	-511.54	597.40	549.31	48.09	12.423		
9,400.00	9,398.52	9,401.41	9,398.52	32.54	22.34	134.17	283.98	-511.54	597.88	549.35	48.53	12.321		
9,500.00	9,498.51	9,501.41	9,498.51	32.89	22.40	134.71	283.98	-511.54	598.54	549.57	48.97	12.223		
9,600.00	9,598.51	9,601.41	9,598.51	33.23	22.46	-115.24	283.98	-511.54	598.93	549.54	49.40	12.124		
9,700.00	9,698.51	9,701.40	9,698.51	33.58	22.52	-76.72	283.98	-511.54	598.94	549.12	49.82	12.022		
9,800.00	9,798.50	9,801.39	9,798.50	33.93	22.58	-58.44	283.98	-511.54	598.42	548.18	50.24	11.912		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 214H - OH - Plan 3 11-24-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,898.48	9,901.38	9,898.48	34.28	22.64	-61.93	283.98	-511.54	597.53	546.88	50.65	11.796	
9,970.26	9,968.74	9,971.63	9,968.74	34.53	22.68	-98.30	283.98	-511.54	597.33	546.39	50.95	11.725	
10,000.00	9,998.47	10,001.37	9,998.47	34.63	22.70	-114.80	283.98	-511.54	597.29	546.22	51.07	11.696	
10,100.00	10,098.45	10,101.35	10,098.45	34.98	22.76	-156.31	283.98	-511.54	598.83	547.34	51.49	11.631	
10,200.00	10,198.42	10,201.32	10,198.42	35.33	22.82	-148.71	283.98	-511.54	600.93	549.02	51.91	11.577	
10,300.00	10,298.42	10,301.32	10,298.42	35.68	22.88	-128.32	283.98	-511.54	601.56	549.23	52.33	11.495	
10,400.00	10,398.42	10,375.00	10,372.02	36.03	23.03	-34.69	286.44	-511.26	603.09	550.33	52.77	11.429	
10,500.00	10,498.42	10,443.41	10,439.34	36.38	23.33	63.63	298.17	-509.93	609.52	556.19	53.32	11.431	
10,600.00	10,598.41	10,505.03	10,497.99	36.72	23.63	77.02	316.81	-507.80	621.98	568.07	53.91	11.537	
10,700.00	10,698.40	10,560.75	10,548.55	37.07	23.91	101.97	340.01	-505.16	641.76	587.30	54.46	11.785	
10,800.00	10,798.39	10,610.09	10,590.78	37.42	24.15	89.39	365.31	-502.28	669.02	614.13	54.89	12.189	
10,900.00	10,898.37	10,650.00	10,622.88	37.77	24.34	89.76	388.86	-499.59	704.06	648.97	55.09	12.780	
11,000.00	10,998.36	10,690.71	10,653.46	38.12	24.53	48.86	415.54	-496.55	746.12	690.90	55.23	13.510	
11,100.00	11,098.34	10,725.00	10,677.37	38.47	24.68	27.20	439.95	-493.77	794.54	739.37	55.17	14.403	
11,200.00	11,198.33	10,750.00	10,693.66	38.82	24.78	37.40	458.79	-491.63	849.70	794.82	54.88	15.482	
11,300.00	11,298.32	10,775.00	10,708.93	39.17	24.88	20.49	478.46	-489.39	910.92	856.30	54.61	16.679	
11,400.00	11,398.31	10,800.00	10,723.15	39.52	24.97	0.71	498.88	-487.06	976.93	922.56	54.37	17.967	
11,500.00	11,498.30	10,826.34	10,736.94	39.87	25.06	-0.72	521.17	-484.52	1,046.83	992.63	54.20	19.314	
11,600.00	11,598.26	10,835.40	10,741.39	40.22	25.09	3.71	529.01	-483.65	1,119.84	1,066.09	53.76	20.832	
11,700.00	11,698.13	10,850.00	10,748.27	40.57	25.13	-30.46	541.83	-482.30	1,195.00	1,141.53	53.47	22.349	
11,800.00	11,797.26	10,875.00	10,759.14	40.92	25.20	-20.08	564.24	-480.20	1,268.97	1,215.63	53.35	23.787	
11,900.00	11,894.04	10,875.00	10,759.14	41.25	25.20	-10.29	564.24	-480.20	1,336.70	1,283.93	52.76	25.334	
12,000.00	11,984.36	10,900.00	10,768.85	41.58	25.27	-12.34	587.20	-478.34	1,393.65	1,341.16	52.48	26.553	
12,100.00	12,063.58	10,925.00	10,777.37	41.88	25.32	-14.06	610.64	-476.73	1,438.31	1,386.21	52.10	27.606	
12,200.00	12,127.93	10,950.00	10,784.68	42.16	25.37	-16.27	634.51	-475.38	1,470.45	1,418.78	51.67	28.459	
12,300.00	12,174.23	10,975.00	10,790.75	42.41	25.41	-19.36	658.73	-474.28	1,491.87	1,440.58	51.29	29.086	
12,400.00	12,207.18	10,990.47	10,793.88	42.64	25.44	-20.62	673.87	-473.74	1,511.35	1,460.34	51.01	29.629	
12,500.00	12,226.06	11,013.20	10,797.62	42.85	25.46	-20.54	696.29	-473.12	1,524.68	1,473.72	50.96	29.920	
12,600.00	12,231.93	11,035.62	10,800.27	43.07	25.48	-20.68	718.54	-472.72	1,531.39	1,480.34	51.04	30.001	
12,700.00	12,232.01	11,050.00	10,801.43	43.31	25.49	-20.96	732.87	-472.58	1,537.80	1,486.59	51.22	30.026	
12,800.00	12,232.36	11,081.99	10,802.50	46.60	25.50	-21.84	764.83	-472.59	1,546.41	1,495.36	51.06	30.288	
12,900.00	12,231.44	11,174.73	10,802.55	46.64	25.52	-22.63	857.57	-473.23	1,554.06	1,502.58	51.48	30.188	
13,000.00	12,231.18	11,272.52	10,802.61	46.69	25.53	-23.46	955.36	-473.91	1,562.10	1,510.09	52.00	30.038	
13,100.00	12,230.71	11,370.94	10,802.66	46.74	25.55	-24.17	1,053.77	-474.59	1,568.86	1,516.27	52.59	29.835	
13,200.00	12,230.03	11,469.87	10,802.72	46.79	25.57	-24.76	1,152.70	-475.28	1,574.26	1,521.04	53.22	29.582	
13,300.00	12,229.13	11,569.21	10,802.78	46.86	25.60	-25.23	1,252.05	-475.97	1,578.22	1,524.32	53.90	29.283	
13,400.00	12,228.02	11,668.87	10,802.84	46.94	25.64	-25.57	1,351.70	-476.66	1,580.67	1,526.06	54.61	28.944	
13,500.00	12,226.71	11,768.73	10,802.89	47.07	25.72	-25.80	1,451.56	-477.35	1,581.58	1,526.22	55.36	28.569	
13,600.00	12,225.18	11,868.70	10,802.95	47.30	26.14	-25.89	1,551.53	-478.05	1,580.90	1,524.77	56.13	28.163	
13,700.00	12,223.54	11,968.69	10,803.01	47.68	27.21	-25.92	1,651.51	-478.74	1,579.39	1,522.45	56.94	27.737	
13,800.00	12,221.91	12,068.67	10,803.07	48.18	28.39	-25.95	1,751.49	-479.43	1,577.88	1,520.08	57.80	27.300	
13,900.00	12,221.16	12,168.67	10,803.13	48.74	29.61	-25.96	1,851.49	-480.13	1,577.17	1,518.48	58.70	26.870	
14,000.00	12,220.99	12,268.67	10,803.18	49.34	30.85	-25.96	1,951.48	-480.82	1,576.98	1,517.34	59.64	26.443	
14,100.00	12,220.82	12,368.67	10,803.24	49.99	32.11	-25.97	2,051.48	-481.51	1,576.78	1,516.17	60.62	26.012	
14,200.00	12,220.64	12,468.67	10,803.30	50.66	33.38	-25.97	2,151.48	-482.21	1,576.59	1,514.95	61.64	25.578	
14,300.00	12,220.47	12,568.67	10,803.36	51.36	34.67	-25.98	2,251.48	-482.90	1,576.39	1,513.70	62.70	25.144	
14,400.00	12,220.29	12,668.67	10,803.41	52.08	35.97	-25.98	2,351.47	-483.60	1,576.20	1,512.41	63.79	24.710	
14,500.00	12,220.12	12,768.67	10,803.47	52.83	37.28	-25.99	2,451.47	-484.29	1,576.00	1,511.08	64.92	24.277	
14,600.00	12,219.94	12,868.66	10,803.53	53.60	38.60	-25.99	2,551.47	-484.98	1,575.80	1,509.73	66.08	23.848	
14,700.00	12,219.77	12,968.66	10,803.59	54.40	39.93	-26.00	2,651.47	-485.68	1,575.61	1,508.34	67.27	23.424	
14,800.00	12,219.59	13,068.66	10,803.65	55.21	41.26	-26.00	2,751.46	-486.37	1,575.41	1,506.93	68.48	23.004	
14,900.00	12,219.42	13,168.66	10,803.70	56.04	42.60	-26.01	2,851.46	-487.06	1,575.22	1,505.49	69.73	22.590	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 214H - OH - Plan 3 11-24-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis					Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,000.00	12,219.24	13,268.66	10,803.76	56.89	43.95	-26.01	2,951.46	-487.76	1,575.02	1,504.02	71.00	22.182	
15,100.00	12,219.07	13,368.66	10,803.82	57.76	45.30	-26.02	3,051.45	-488.45	1,574.83	1,502.53	72.30	21.782	
15,200.00	12,218.90	13,468.66	10,803.88	58.64	46.66	-26.02	3,151.45	-489.15	1,574.63	1,501.01	73.62	21.388	
15,300.00	12,218.72	13,568.66	10,803.94	59.54	48.03	-26.03	3,251.45	-489.84	1,574.44	1,499.47	74.96	21.003	
15,400.00	12,218.55	13,668.66	10,803.99	60.46	49.39	-26.03	3,351.45	-490.53	1,574.24	1,497.91	76.33	20.625	
15,500.00	12,218.37	13,768.66	10,804.05	61.39	50.76	-26.04	3,451.44	-491.23	1,574.05	1,496.33	77.71	20.255	
15,600.00	12,218.20	13,868.66	10,804.11	62.33	52.14	-26.04	3,551.44	-491.92	1,573.85	1,494.74	79.11	19.893	
15,700.00	12,218.02	13,968.66	10,804.17	63.29	53.52	-26.04	3,651.44	-492.62	1,573.66	1,493.12	80.54	19.540	
15,800.00	12,217.85	14,068.66	10,804.22	64.25	54.90	-26.05	3,751.44	-493.31	1,573.46	1,491.49	81.97	19.195	
15,900.00	12,217.67	14,168.66	10,804.28	65.24	56.28	-26.05	3,851.43	-494.00	1,573.27	1,489.84	83.43	18.858	
16,000.00	12,217.50	14,268.66	10,804.34	66.23	57.67	-26.06	3,951.43	-494.70	1,573.07	1,488.17	84.90	18.529	
16,100.00	12,217.33	14,368.66	10,804.40	67.23	59.06	-26.06	4,051.43	-495.39	1,572.87	1,486.49	86.38	18.208	
16,200.00	12,217.15	14,468.66	10,804.46	68.24	60.45	-26.07	4,151.42	-496.08	1,572.68	1,484.80	87.88	17.896	
16,300.00	12,216.98	14,568.66	10,804.51	69.27	61.84	-26.07	4,251.42	-496.78	1,572.48	1,483.09	89.39	17.591	
16,400.00	12,216.80	14,668.66	10,804.57	70.30	63.24	-26.08	4,351.42	-497.47	1,572.29	1,481.37	90.92	17.294	
16,500.00	12,216.63	14,768.66	10,804.63	71.34	64.64	-26.08	4,451.42	-498.17	1,572.09	1,479.64	92.45	17.004	
16,600.00	12,216.45	14,868.66	10,804.69	72.39	66.04	-26.09	4,551.41	-498.86	1,571.90	1,477.89	94.00	16.722	
16,700.00	12,216.28	14,968.66	10,804.74	73.45	67.44	-26.09	4,651.41	-499.55	1,571.70	1,476.14	95.56	16.447	
16,800.00	12,216.10	15,068.66	10,804.80	74.52	68.84	-26.10	4,751.41	-500.25	1,571.51	1,474.37	97.13	16.179	
16,900.00	12,215.93	15,168.66	10,804.86	75.60	70.24	-26.10	4,851.41	-500.94	1,571.31	1,472.60	98.71	15.918	
17,000.00	12,215.75	15,268.66	10,804.92	76.68	71.65	-26.11	4,951.40	-501.63	1,571.12	1,470.81	100.30	15.664	
17,100.00	12,215.58	15,368.66	10,804.98	77.77	73.05	-26.11	5,051.40	-502.33	1,570.92	1,469.02	101.90	15.416	
17,200.00	12,215.41	15,468.66	10,805.03	78.86	74.46	-26.12	5,151.40	-503.02	1,570.73	1,467.22	103.51	15.175	
17,300.00	12,215.23	15,568.66	10,805.09	79.97	75.87	-26.12	5,251.40	-503.72	1,570.53	1,465.41	105.13	14.940	
17,400.00	12,215.06	15,668.66	10,805.15	81.07	77.28	-26.12	5,351.39	-504.41	1,570.34	1,463.59	106.75	14.711	
17,500.00	12,214.88	15,768.66	10,805.21	82.19	78.69	-26.13	5,451.39	-505.10	1,570.14	1,461.76	108.38	14.487	
17,600.00	12,214.71	15,868.66	10,805.26	83.31	80.10	-26.13	5,551.39	-505.80	1,569.95	1,459.93	110.02	14.270	
17,700.00	12,214.53	15,968.66	10,805.32	84.44	81.51	-26.14	5,651.38	-506.49	1,569.75	1,458.09	111.67	14.058	
17,800.00	12,214.36	16,068.66	10,805.38	85.57	82.93	-26.14	5,751.38	-507.19	1,569.56	1,456.24	113.32	13.851	
17,900.00	12,214.18	16,168.66	10,805.44	86.70	84.34	-26.15	5,851.38	-507.88	1,569.36	1,454.38	114.98	13.649	
18,000.00	12,214.01	16,268.66	10,805.50	87.84	85.76	-26.15	5,951.38	-508.57	1,569.17	1,452.52	116.64	13.453	
18,100.00	12,213.83	16,368.66	10,805.55	88.99	87.17	-26.16	6,051.37	-509.27	1,568.97	1,450.66	118.32	13.261	
18,200.00	12,213.66	16,468.66	10,805.61	90.14	88.59	-26.16	6,151.37	-509.96	1,568.78	1,448.78	119.99	13.074	
18,300.00	12,213.49	16,568.65	10,805.67	91.30	90.01	-26.17	6,251.37	-510.65	1,568.58	1,446.91	121.68	12.891	
18,400.00	12,213.31	16,668.65	10,805.73	92.45	91.42	-26.17	6,351.37	-511.35	1,568.39	1,445.02	123.36	12.713	
18,500.00	12,213.14	16,768.65	10,805.78	93.62	92.84	-26.18	6,451.36	-512.04	1,568.19	1,443.13	125.06	12.540	
18,600.00	12,212.96	16,868.65	10,805.84	94.78	94.26	-26.18	6,551.36	-512.74	1,568.00	1,441.24	126.76	12.370	
18,700.00	12,212.79	16,968.65	10,805.90	95.95	95.68	-26.19	6,651.36	-513.43	1,567.80	1,439.34	128.46	12.205	
18,800.00	12,212.61	17,068.65	10,805.96	97.13	97.10	-26.19	6,751.35	-514.12	1,567.61	1,437.44	130.17	12.043	
18,900.00	12,212.44	17,168.65	10,806.02	98.31	98.52	-26.20	6,851.35	-514.82	1,567.41	1,435.53	131.88	11.885	
19,000.00	12,212.26	17,268.65	10,806.07	99.49	99.94	-26.20	6,951.35	-515.51	1,567.22	1,433.62	133.59	11.731	
19,100.00	12,212.09	17,368.65	10,806.13	100.67	101.37	-26.21	7,051.35	-516.20	1,567.02	1,431.71	135.31	11.581	
19,200.00	12,211.91	17,468.65	10,806.19	101.86	102.79	-26.21	7,151.34	-516.90	1,566.83	1,429.79	137.04	11.434	
19,300.00	12,211.74	17,568.65	10,806.25	103.05	104.21	-26.21	7,251.34	-517.59	1,566.63	1,427.87	138.76	11.290	
19,400.00	12,211.57	17,668.65	10,806.31	104.24	105.63	-26.22	7,351.34	-518.29	1,566.44	1,425.94	140.50	11.149	
19,500.00	12,211.39	17,768.65	10,806.36	105.44	107.06	-26.22	7,451.34	-518.98	1,566.24	1,424.01	142.23	11.012	
19,600.00	12,211.22	17,868.65	10,806.42	106.64	108.48	-26.23	7,551.33	-519.67	1,566.05	1,422.08	143.97	10.878	
19,700.00	12,211.04	17,968.65	10,806.48	107.84	109.90	-26.23	7,651.33	-520.37	1,565.85	1,420.14	145.71	10.746	
19,800.00	12,210.87	18,068.65	10,806.54	109.04	111.33	-26.24	7,751.33	-521.06	1,565.66	1,418.20	147.46	10.618	
19,900.00	12,210.69	18,168.65	10,806.59	110.25	112.75	-26.24	7,851.32	-521.76	1,565.46	1,416.26	149.20	10.492	
20,000.00	12,210.52	18,268.65	10,806.65	111.46	114.18	-26.25	7,951.32	-522.45	1,565.27	1,414.31	150.96	10.369	
20,100.00	12,210.34	18,368.65	10,806.71	112.67	115.60	-26.25	8,051.32	-523.14	1,565.07	1,412.36	152.71	10.249	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 214H - OH - Plan 3 11-24-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,200.00	12,210.17	18,468.65	10,806.77	113.88	117.03	-26.26	8,151.32	-523.84	1,564.88	1,410.41	154.47	10.131	
20,300.00	12,209.99	18,568.65	10,806.83	115.10	118.46	-26.26	8,251.31	-524.53	1,564.68	1,408.46	156.23	10.016	
20,400.00	12,209.82	18,668.65	10,806.88	116.31	119.88	-26.27	8,351.31	-525.22	1,564.49	1,406.50	157.99	9.903	
20,500.00	12,209.65	18,768.65	10,806.94	117.53	121.31	-26.27	8,451.31	-525.92	1,564.29	1,404.54	159.75	9.792	
20,600.00	12,209.47	18,868.65	10,807.00	118.75	122.73	-26.28	8,551.31	-526.61	1,564.10	1,402.58	161.52	9.684	
20,700.00	12,209.30	18,968.65	10,807.06	119.98	124.16	-26.28	8,651.30	-527.31	1,563.90	1,400.61	163.29	9.578	
20,800.00	12,209.12	19,068.65	10,807.11	121.20	125.59	-26.29	8,751.30	-528.00	1,563.71	1,398.65	165.06	9.474	
20,900.00	12,208.95	19,168.65	10,807.17	122.43	127.02	-26.29	8,851.30	-528.69	1,563.51	1,396.68	166.83	9.372	
21,000.00	12,208.77	19,268.65	10,807.23	123.66	128.44	-26.30	8,951.30	-529.39	1,563.32	1,394.71	168.61	9.272	
21,100.00	12,208.60	19,368.65	10,807.29	124.89	129.87	-26.30	9,051.29	-530.08	1,563.12	1,392.74	170.39	9.174	
21,200.00	12,208.42	19,468.65	10,807.35	126.12	131.30	-26.31	9,151.29	-530.77	1,562.93	1,390.76	172.17	9.078	
21,300.00	12,208.25	19,568.65	10,807.40	127.35	132.73	-26.31	9,251.29	-531.47	1,562.73	1,388.78	173.95	8.984	
21,400.00	12,208.07	19,668.65	10,807.46	128.59	134.16	-26.32	9,351.28	-532.16	1,562.54	1,386.80	175.74	8.891	
21,500.00	12,207.90	19,768.65	10,807.52	129.82	135.59	-26.32	9,451.28	-532.86	1,562.35	1,384.82	177.52	8.801	
21,600.00	12,207.73	19,868.65	10,807.58	131.06	137.02	-26.32	9,551.28	-533.55	1,562.15	1,382.84	179.31	8.712	
21,700.00	12,207.55	19,968.65	10,807.63	132.30	138.44	-26.33	9,651.28	-534.24	1,561.96	1,380.85	181.10	8.625	
21,800.00	12,207.38	20,068.65	10,807.69	133.54	139.87	-26.33	9,751.27	-534.94	1,561.76	1,378.87	182.89	8.539	
21,900.00	12,207.20	20,168.64	10,807.75	134.78	141.30	-26.34	9,851.27	-535.63	1,561.57	1,376.88	184.69	8.455	
22,000.00	12,207.03	20,268.64	10,807.81	136.03	142.73	-26.34	9,951.27	-536.32	1,561.37	1,374.89	186.48	8.373	
22,100.00	12,206.85	20,368.64	10,807.87	137.27	144.16	-26.35	10,051.27	-537.02	1,561.18	1,372.90	188.28	8.292	
22,200.00	12,206.68	20,468.64	10,807.92	138.52	145.59	-26.35	10,151.26	-537.71	1,560.98	1,370.90	190.08	8.212	
22,300.00	12,206.50	20,568.64	10,807.98	139.76	147.02	-26.36	10,251.26	-538.41	1,560.79	1,368.91	191.88	8.134	
22,400.00	12,206.33	20,668.64	10,808.04	141.01	148.45	-26.36	10,351.26	-539.10	1,560.59	1,366.91	193.68	8.058	
22,500.00	12,206.16	20,768.64	10,808.10	142.26	149.88	-26.37	10,451.25	-539.79	1,560.40	1,364.92	195.48	7.982	
22,600.00	12,205.98	20,868.64	10,808.16	143.51	151.31	-26.37	10,551.25	-540.49	1,560.20	1,362.92	197.29	7.908	
22,700.00	12,205.81	20,968.64	10,808.21	144.76	152.75	-26.38	10,651.25	-541.18	1,560.01	1,360.92	199.09	7.836	
22,800.00	12,205.63	21,068.64	10,808.27	146.02	154.18	-26.38	10,751.25	-541.88	1,559.82	1,358.91	200.90	7.764	
22,900.00	12,205.46	21,168.64	10,808.33	147.27	155.61	-26.39	10,851.24	-542.57	1,559.62	1,356.91	202.71	7.694	
23,000.00	12,205.28	21,268.64	10,808.39	148.52	157.04	-26.39	10,951.24	-543.26	1,559.43	1,354.91	204.52	7.625	
23,100.00	12,205.11	21,368.64	10,808.44	149.78	158.47	-26.40	11,051.24	-543.96	1,559.23	1,352.90	206.33	7.557	
23,200.00	12,204.93	21,468.64	10,808.50	151.04	159.90	-26.40	11,151.24	-544.65	1,559.04	1,350.89	208.14	7.490	
23,251.42	12,204.84	21,517.60	10,808.53	151.68	160.60	-26.40	11,200.19	-544.99	1,558.94	1,349.90	209.04	7.458 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 216H - OH - Plan 4 12-01-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.50	1.00	1.00	89.40	5.26	504.92	504.94					
100.00	100.00	99.50	100.00	1.01	1.09	75.60	5.26	504.92	504.80	502.70	2.10	240.858		
174.70	174.69	174.19	174.69	1.06	1.44	98.16	5.26	504.92	504.77	502.27	2.50	201.885		
200.00	199.98	199.48	199.98	1.08	1.60	103.09	5.26	504.92	504.65	501.97	2.68	188.118		
300.00	299.96	299.46	299.96	1.26	2.01	118.13	5.26	504.92	505.47	502.19	3.28	154.340		
400.00	399.95	399.45	399.95	1.51	2.35	73.99	5.26	504.92	505.88	502.02	3.86	130.958		
500.00	499.92	499.42	499.92	1.79	2.65	33.69	5.26	504.92	504.53	500.09	4.45	113.495		
600.00	599.89	599.39	599.89	2.09	2.93	27.63	5.26	504.92	502.23	497.21	5.02	100.044		
700.00	699.85	699.35	699.85	2.41	3.18	22.87	5.26	504.92	499.81	494.22	5.59	89.447		
800.00	799.82	799.32	799.82	2.74	3.41	18.17	5.26	504.92	497.27	491.12	6.15	80.878		
900.00	899.80	899.30	899.80	3.07	3.64	-1.59	5.26	504.92	495.76	489.06	6.70	73.987		
1,000.00	999.80	999.30	999.80	3.40	3.85	-12.15	5.26	504.92	494.86	487.62	7.24	68.304		
1,100.00	1,099.80	1,099.30	1,099.80	3.74	4.05	-4.39	5.26	504.92	494.22	486.43	7.78	63.488		
1,200.00	1,199.79	1,199.29	1,199.79	4.08	4.24	31.33	5.26	504.92	493.73	485.41	8.32	59.334		
1,300.00	1,299.79	1,299.29	1,299.79	4.43	4.43	81.16	5.26	504.92	493.41	484.56	8.85	55.734		
1,317.35	1,317.14	1,316.64	1,317.14	4.49	4.46	90.00	5.26	504.92	493.41	484.46	8.94	55.168 CC		
1,400.00	1,399.79	1,399.29	1,399.79	4.77	4.61	117.84	5.26	504.92	493.58	484.20	9.38	52.644 ES		
1,500.00	1,499.78	1,499.28	1,499.78	5.11	4.78	134.40	5.26	504.92	494.35	484.46	9.89	49.981		
1,600.00	1,599.77	1,599.27	1,599.77	5.45	4.95	150.61	5.26	504.92	495.79	485.39	10.40	47.675		
1,700.00	1,699.75	1,699.25	1,699.75	5.79	5.12	163.87	5.26	504.92	497.42	486.52	10.90	45.623		
1,800.00	1,799.74	1,799.24	1,799.74	6.13	5.28	160.85	5.26	504.92	498.86	487.45	11.40	43.745		
1,900.00	1,899.73	1,899.23	1,899.73	6.47	5.44	161.21	5.26	504.92	500.31	488.40	11.90	42.031		
2,000.00	1,999.72	1,999.22	1,999.72	6.81	5.59	-177.72	5.26	504.92	501.60	489.20	12.40	40.452		
2,100.00	2,099.71	2,099.21	2,099.71	7.15	5.75	-147.05	5.26	504.92	502.57	489.68	12.89	38.986		
2,200.00	2,199.71	2,199.21	2,199.71	7.49	5.89	-167.60	5.26	504.92	503.54	490.16	13.38	37.632		
2,300.00	2,299.70	2,299.20	2,299.70	7.83	6.04	-171.98	5.26	504.92	504.75	490.88	13.87	36.390		
2,400.00	2,399.69	2,399.19	2,399.69	8.18	6.19	-159.79	5.26	504.92	505.93	491.57	14.36	35.234		
2,500.00	2,499.69	2,499.19	2,499.69	8.52	6.33	-146.45	5.26	504.92	506.78	491.93	14.84	34.138		
2,600.00	2,599.68	2,599.18	2,599.68	8.87	6.47	-155.76	5.26	504.92	507.50	492.17	15.33	33.105		
2,700.00	2,699.68	2,699.18	2,699.68	9.21	6.60	-175.64	5.26	504.92	508.14	492.33	15.82	32.130		
2,800.00	2,799.68	2,793.84	2,794.34	9.56	6.67	150.76	5.35	505.15	508.95	492.72	16.23	31.352		
2,900.00	2,899.68	2,882.93	2,883.40	9.92	6.86	118.71	6.16	507.05	511.46	494.71	16.76	30.526		
3,000.00	2,999.68	2,971.88	2,972.25	10.27	7.14	109.84	7.77	510.85	515.91	498.57	17.34	29.747		
3,100.00	3,099.67	3,060.58	3,060.74	10.62	7.39	115.66	10.18	516.54	522.66	504.76	17.90	29.195		
3,200.00	3,199.67	3,157.38	3,157.17	10.98	7.55	112.26	13.44	524.24	531.03	512.63	18.40	28.860		
3,300.00	3,299.66	3,257.01	3,256.42	11.33	7.72	96.74	16.82	532.23	539.26	520.35	18.92	28.507		
3,400.00	3,399.66	3,356.66	3,355.70	11.68	7.92	83.65	20.20	540.22	547.28	527.82	19.45	28.133		
3,500.00	3,499.65	3,456.32	3,454.98	12.04	8.12	80.62	23.58	548.21	555.19	535.18	20.00	27.756		
3,600.00	3,599.65	3,555.94	3,554.22	12.39	8.34	125.40	26.96	556.20	563.34	542.78	20.56	27.394		
3,700.00	3,699.65	3,655.55	3,653.46	12.74	8.57	107.85	30.34	564.19	571.67	550.53	21.14	27.044		
3,800.00	3,799.65	3,755.17	3,752.69	13.10	8.82	123.83	33.72	572.18	580.02	558.30	21.72	26.701		
3,900.00	3,899.65	3,854.76	3,851.91	13.45	9.07	-119.63	37.11	580.16	588.38	566.07	22.31	26.373		
4,000.00	3,999.64	3,954.32	3,951.09	13.79	9.33	-148.02	40.48	588.15	597.05	574.15	22.90	26.069		
4,100.00	4,099.64	4,053.85	4,050.24	14.13	9.60	-150.75	43.86	596.13	606.07	582.56	23.51	25.782		
4,200.00	4,199.64	4,153.41	4,149.42	14.48	9.88	-84.42	47.24	604.11	614.79	590.67	24.12	25.489		
4,300.00	4,299.62	4,253.08	4,248.71	14.82	10.16	-35.96	50.62	612.10	621.89	597.15	24.74	25.141		
4,400.00	4,399.56	4,352.82	4,348.07	15.16	10.45	-30.54	54.01	620.10	627.13	601.77	25.36	24.730		
4,500.00	4,499.52	4,452.56	4,447.44	15.50	10.75	-26.48	57.39	628.10	633.03	607.04	25.99	24.357		
4,600.00	4,599.48	4,552.31	4,546.81	15.84	11.05	-29.83	60.78	636.10	638.69	612.06	26.63	23.987		
4,700.00	4,699.36	4,652.08	4,646.20	16.19	11.36	-32.90	64.17	644.10	642.79	615.52	27.27	23.569		
4,800.00	4,799.16	4,751.85	4,745.59	16.53	11.68	-32.59	67.55	652.10	645.78	617.86	27.93	23.124		
4,900.00	4,899.01	4,851.63	4,844.99	16.87	11.99	-30.68	70.94	660.10	649.56	620.97	28.59	22.723		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 216H - OH - Plan 4 12-01-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.00	4,998.96	4,951.38	4,944.36	17.22	12.31	-34.76	74.33	668.10	655.03	625.79	29.25	22.395		
5,100.00	5,098.90	5,051.13	5,043.73	17.56	12.64	-34.11	77.71	676.10	660.62	630.70	29.92	22.082		
5,200.00	5,198.84	5,150.87	5,143.10	17.91	12.97	-37.43	81.10	684.10	666.20	635.61	30.59	21.779		
5,300.00	5,298.82	5,250.60	5,242.44	18.26	13.30	-3.45	84.48	692.09	672.73	641.46	31.26	21.517		
5,400.00	5,398.81	5,350.21	5,341.68	18.60	13.63	124.19	87.86	700.08	681.32	649.38	31.94	21.331		
5,500.00	5,498.79	5,449.76	5,440.85	18.96	13.97	126.67	91.24	708.07	690.74	658.13	32.62	21.177		
5,600.00	5,598.78	5,549.31	5,540.02	19.31	14.31	134.26	94.62	716.05	700.19	666.90	33.30	21.027		
5,700.00	5,698.77	5,648.86	5,639.19	19.66	14.65	132.62	98.00	724.03	709.61	675.63	33.98	20.881		
5,800.00	5,798.76	5,748.43	5,738.38	20.01	14.99	124.52	101.38	732.02	718.77	684.10	34.67	20.731		
5,900.00	5,898.75	5,848.01	5,837.58	20.36	15.34	122.67	104.76	740.00	727.83	692.47	35.36	20.583		
6,000.00	5,998.74	5,947.59	5,936.78	20.72	15.69	121.46	108.14	747.99	736.96	700.91	36.05	20.442		
6,100.00	6,098.73	6,047.15	6,035.97	21.07	16.04	121.44	111.52	755.97	746.17	709.43	36.75	20.307		
6,200.00	6,198.72	6,146.73	6,135.17	21.42	16.39	120.79	114.90	763.95	755.39	717.95	37.44	20.176		
6,300.00	6,298.70	6,246.29	6,234.35	21.77	16.74	122.34	118.28	771.94	764.71	726.57	38.14	20.052		
6,400.00	6,398.69	6,345.82	6,333.50	22.13	17.10	174.31	121.65	779.92	774.32	735.48	38.83	19.939		
6,500.00	6,498.67	6,445.24	6,432.55	22.47	17.45	-157.18	125.03	787.89	784.64	745.10	39.54	19.846		
6,600.00	6,598.65	6,544.67	6,531.60	22.82	17.81	-119.88	128.40	795.87	794.79	754.55	40.24	19.753		
6,700.00	6,698.64	6,644.30	6,630.85	23.16	18.17	-32.39	131.78	803.86	802.94	762.01	40.94	19.614		
6,800.00	6,798.64	6,743.98	6,730.15	23.51	18.53	-6.34	135.17	811.85	810.59	768.95	41.64	19.466		
6,900.00	6,898.64	6,843.66	6,829.45	23.86	18.89	3.04	138.55	819.84	818.34	775.99	42.35	19.325		
7,000.00	6,998.64	6,943.32	6,928.74	24.20	19.25	-21.39	141.93	827.83	826.25	783.20	43.05	19.192		
7,100.00	7,098.63	7,042.96	7,028.00	24.55	19.61	-61.89	145.32	835.82	834.41	790.65	43.76	19.069		
7,200.00	7,198.63	7,142.59	7,127.25	24.89	19.97	-66.40	148.70	843.81	842.61	798.14	44.47	18.950		
7,300.00	7,298.63	7,242.22	7,226.50	25.23	20.34	-61.29	152.08	851.80	850.74	805.56	45.18	18.832		
7,400.00	7,398.63	7,341.85	7,325.75	25.58	20.70	-69.60	155.46	859.79	858.95	813.07	45.89	18.719		
7,500.00	7,498.62	7,441.47	7,425.00	25.92	21.07	-78.51	158.84	867.78	867.24	820.64	46.60	18.611		
7,600.00	7,598.62	7,541.08	7,524.22	26.27	21.44	-85.16	162.22	875.77	875.62	828.30	47.31	18.507		
7,700.00	7,698.61	7,640.67	7,623.43	26.62	21.80	-83.74	165.60	883.75	883.96	835.93	48.03	18.404		
7,800.00	7,798.59	7,740.26	7,722.65	26.96	22.17	-84.01	168.98	891.74	892.29	843.54	48.75	18.304		
7,900.00	7,898.58	7,839.86	7,821.87	27.31	22.54	-71.65	172.36	899.73	900.61	851.14	49.47	18.206		
8,000.00	7,998.58	7,939.51	7,921.14	27.66	22.91	45.12	175.75	907.72	908.75	858.56	50.19	18.107		
8,100.00	8,098.58	8,039.16	8,020.42	28.01	23.28	66.17	179.13	915.71	916.95	866.04	50.90	18.013		
8,200.00	8,198.58	8,138.81	8,119.69	28.36	23.65	69.50	182.51	923.70	925.23	873.61	51.62	17.924		
8,300.00	8,298.58	8,257.72	8,238.21	28.71	24.08	149.26	186.22	932.45	933.13	880.71	52.43	17.799		
8,400.00	8,398.57	8,389.12	8,369.44	29.06	24.56	-159.03	188.72	938.37	938.26	884.99	53.27	17.613		
8,500.00	8,498.57	8,518.27	8,498.57	29.40	24.91	-143.03	189.47	940.14	940.21	886.28	53.93	17.433		
8,600.00	8,598.57	8,618.26	8,598.57	29.75	24.94	-146.39	189.47	940.14	940.94	886.62	54.32	17.322		
8,700.00	8,698.56	8,718.26	8,698.56	30.10	24.99	-149.41	189.47	940.14	941.91	887.19	54.71	17.215		
8,800.00	8,798.55	8,818.25	8,798.55	30.45	25.03	-156.90	189.47	940.14	943.14	888.03	55.11	17.115		
8,900.00	8,898.54	8,918.24	8,898.54	30.80	25.07	-153.10	189.47	940.14	944.38	888.88	55.50	17.016		
9,000.00	8,998.54	9,018.23	8,998.54	31.15	25.12	-147.82	189.47	940.14	945.40	889.50	55.90	16.914		
9,100.00	9,098.53	9,118.23	9,098.53	31.49	25.16	-138.58	189.47	940.14	946.18	889.89	56.29	16.809		
9,200.00	9,198.53	9,218.22	9,198.53	31.84	25.20	-128.78	189.47	940.14	946.95	890.26	56.69	16.705		
9,300.00	9,298.52	9,318.21	9,298.52	32.19	25.25	-111.62	189.47	940.14	947.53	890.45	57.08	16.599		
9,400.00	9,398.52	9,418.21	9,398.52	32.54	25.29	-86.37	189.47	940.14	947.53	890.06	57.48	16.485		
9,463.18	9,461.70	9,481.39	9,461.70	32.76	25.32	-86.12	189.47	940.14	947.50	889.77	57.73	16.413		
9,500.00	9,498.51	9,518.20	9,498.51	32.89	25.34	-85.97	189.47	940.14	947.56	889.69	57.87	16.373		
9,600.00	9,598.51	9,618.20	9,598.51	33.23	25.38	24.05	189.47	940.14	947.31	889.04	58.27	16.258		
9,700.00	9,698.51	9,718.20	9,698.51	33.58	25.43	62.69	189.47	940.14	946.75	888.09	58.66	16.140		
9,800.00	9,798.50	9,818.19	9,798.50	33.93	25.47	81.17	189.47	940.14	946.39	887.34	59.05	16.027		
9,900.00	9,898.48	9,918.18	9,898.48	34.28	25.52	77.90	189.47	940.14	946.16	886.73	59.44	15.918		
10,000.00	9,998.47	10,018.17	9,998.47	34.63	25.56	25.25	189.47	940.14	945.43	885.60	59.83	15.802		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 216H - OH - Plan 4 12-01-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	10,098.45	10,118.15	10,098.45	34.98	25.61	-16.17	189.47	940.14	943.48	883.26	60.22	15.667	
10,200.00	10,198.42	10,218.12	10,198.42	35.33	25.65	-8.51	189.47	940.14	941.30	880.68	60.62	15.528	
10,300.00	10,298.42	10,318.11	10,298.42	35.68	25.69	11.93	189.47	940.14	940.47	879.46	61.01	15.415	
10,356.27	10,354.69	10,372.68	10,352.99	35.87	25.72	49.66	189.76	940.09	940.29	879.06	61.23	15.357	
10,400.00	10,398.42	10,412.21	10,392.38	36.03	25.76	105.17	192.76	939.63	940.44	879.03	61.41	15.314	
10,500.00	10,498.42	10,500.00	10,478.12	36.38	25.87	-158.63	210.85	936.86	942.32	880.43	61.89	15.226	
10,600.00	10,598.41	10,575.00	10,547.68	36.72	25.98	-148.59	238.37	932.65	946.95	884.55	62.40	15.176	
10,700.00	10,698.40	10,643.46	10,606.67	37.07	26.09	-127.71	272.60	927.41	955.17	892.27	62.90	15.186	
10,800.00	10,798.39	10,700.00	10,651.24	37.42	26.20	-144.46	306.93	922.16	968.70	905.41	63.29	15.305	
10,900.00	10,898.37	10,745.13	10,683.68	37.77	26.28	-147.80	337.92	917.42	988.68	925.17	63.51	15.567	
11,000.00	10,998.36	10,783.46	10,708.81	38.12	26.36	167.16	366.51	913.04	1,015.35	951.80	63.55	15.978	
11,100.00	11,098.34	10,815.84	10,728.17	38.47	26.43	142.00	392.16	909.12	1,048.66	985.27	63.39	16.543	
11,200.00	11,198.33	10,842.95	10,743.00	38.82	26.49	149.72	414.59	905.69	1,088.46	1,025.38	63.07	17.257	
11,300.00	11,298.32	10,865.82	10,754.49	39.17	26.54	130.14	434.14	902.70	1,134.23	1,071.60	62.63	18.111	
11,400.00	11,398.31	10,885.53	10,763.62	39.52	26.58	107.70	451.40	900.05	1,185.43	1,123.34	62.10	19.090	
11,500.00	11,498.30	10,900.00	10,769.86	39.87	26.62	103.87	464.31	898.08	1,241.98	1,180.48	61.50	20.196	
11,600.00	11,598.26	10,925.00	10,779.71	40.22	26.68	106.44	487.02	894.60	1,303.39	1,242.35	61.04	21.355	
11,700.00	11,698.13	10,925.00	10,779.71	40.57	26.68	66.19	487.02	894.60	1,368.17	1,307.86	60.31	22.684	
11,800.00	11,797.26	10,950.00	10,788.33	40.92	26.74	68.02	510.21	891.06	1,432.97	1,373.07	59.90	23.924	
11,900.00	11,894.04	10,962.19	10,792.09	41.25	26.77	69.09	521.67	889.30	1,501.18	1,441.75	59.43	25.260	
12,000.00	11,984.36	10,975.00	10,795.72	41.58	26.81	54.49	533.82	887.44	1,566.63	1,507.59	59.04	26.534	
12,100.00	12,063.58	11,000.00	10,801.85	41.88	26.87	44.53	557.77	883.78	1,620.58	1,561.79	58.79	27.564	
12,200.00	12,127.93	11,025.00	10,806.70	42.16	26.94	36.64	582.01	880.07	1,658.99	1,600.47	58.52	28.348	
12,300.00	12,174.23	11,050.00	10,810.26	42.41	27.02	30.62	606.47	876.33	1,675.40	1,617.24	58.16	28.807	
12,400.00	12,207.18	11,075.00	10,812.52	42.64	27.09	26.95	631.08	872.56	1,673.19	1,615.54	57.65	29.023	
12,500.00	12,226.06	11,100.00	10,813.47	42.85	27.17	26.72	655.77	868.78	1,659.80	1,602.67	57.13	29.051	
12,600.00	12,231.93	11,129.57	10,813.51	43.07	27.29	26.62	685.03	864.51	1,638.69	1,581.99	56.70	28.902	
12,700.00	12,232.01	11,200.00	10,813.51	43.31	27.59	25.97	755.02	856.73	1,615.89	1,559.26	56.63	28.536	
12,800.00	12,232.36	11,247.45	10,813.51	46.60	27.94	26.53	802.35	853.44	1,599.35	1,541.97	57.38	27.872	
12,900.00	12,231.44	11,313.75	10,813.51	46.64	28.40	26.11	868.62	851.46	1,587.42	1,530.09	57.34	27.685	
13,000.00	12,231.18	11,408.64	10,813.50	46.69	28.86	25.63	963.51	850.84	1,577.93	1,520.29	57.65	27.372	
13,100.00	12,230.71	11,507.06	10,813.50	46.74	29.40	25.19	1,061.93	850.18	1,569.83	1,511.76	58.07	27.034	
13,200.00	12,230.03	11,606.00	10,813.50	46.79	30.02	24.83	1,160.86	849.53	1,563.02	1,504.45	58.57	26.686	
13,300.00	12,229.13	11,705.35	10,813.50	46.86	30.70	24.55	1,260.21	848.87	1,557.46	1,498.30	59.16	26.328	
13,400.00	12,228.02	11,805.01	10,813.50	46.94	31.44	24.35	1,359.86	848.21	1,553.08	1,493.26	59.83	25.960	
13,500.00	12,226.71	11,904.87	10,813.50	47.07	32.24	24.24	1,459.73	847.55	1,549.86	1,489.28	60.58	25.582	
13,600.00	12,225.18	12,004.84	10,813.50	47.30	33.09	24.21	1,559.70	846.89	1,547.77	1,486.34	61.43	25.194	
13,700.00	12,223.54	12,104.83	10,813.50	47.68	33.99	24.24	1,659.68	846.23	1,546.28	1,483.93	62.35	24.799	
13,800.00	12,221.91	12,204.81	10,813.50	48.18	34.93	24.26	1,759.66	845.57	1,544.79	1,481.48	63.31	24.401	
13,900.00	12,221.16	12,304.81	10,813.50	48.74	35.92	24.27	1,859.66	844.90	1,544.12	1,479.82	64.30	24.016	
14,000.00	12,220.99	12,404.81	10,813.50	49.34	36.93	24.27	1,959.66	844.24	1,543.96	1,478.65	65.31	23.639	
14,100.00	12,220.82	12,504.81	10,813.50	49.99	37.98	24.27	2,059.65	843.58	1,543.80	1,477.44	66.36	23.263	
14,200.00	12,220.64	12,604.81	10,813.50	50.66	39.06	24.28	2,159.65	842.92	1,543.64	1,476.20	67.44	22.888	
14,300.00	12,220.47	12,704.81	10,813.50	51.36	40.16	24.28	2,259.65	842.25	1,543.49	1,474.93	68.56	22.514	
14,400.00	12,220.29	12,804.81	10,813.50	52.08	41.29	24.28	2,359.65	841.59	1,543.33	1,473.63	69.70	22.144	
14,500.00	12,220.12	12,904.81	10,813.50	52.83	42.44	24.29	2,459.64	840.93	1,543.17	1,472.31	70.86	21.777	
14,600.00	12,219.94	13,004.81	10,813.50	53.60	43.60	24.29	2,559.64	840.27	1,543.01	1,470.95	72.06	21.414	
14,700.00	12,219.77	13,104.81	10,813.50	54.40	44.79	24.29	2,659.64	839.61	1,542.85	1,469.58	73.28	21.055	
14,800.00	12,219.59	13,204.81	10,813.50	55.21	45.99	24.29	2,759.64	838.94	1,542.69	1,468.17	74.52	20.702	
14,900.00	12,219.42	13,304.81	10,813.50	56.04	47.20	24.30	2,859.63	838.28	1,542.53	1,466.75	75.78	20.354	
15,000.00	12,219.24	13,404.81	10,813.50	56.89	48.43	24.30	2,959.63	837.62	1,542.38	1,465.30	77.07	20.012	
15,100.00	12,219.07	13,504.81	10,813.50	57.76	49.67	24.30	3,059.63	836.96	1,542.22	1,463.84	78.38	19.676	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 216H - OH - Plan 4 12-01-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,200.00	12,218.90	13,604.81	10,813.50	58.64	50.92	24.30	3,159.63	836.30	1,542.06	1,462.35	79.71	19.346	
15,300.00	12,218.72	13,704.81	10,813.50	59.54	52.18	24.31	3,259.63	835.63	1,541.90	1,460.84	81.05	19.023	
15,400.00	12,218.55	13,804.81	10,813.50	60.46	53.45	24.31	3,359.62	834.97	1,541.74	1,459.32	82.42	18.706	
15,500.00	12,218.37	13,904.81	10,813.50	61.39	54.72	24.31	3,459.62	834.31	1,541.58	1,457.78	83.80	18.395	
15,600.00	12,218.20	14,004.81	10,813.50	62.33	56.01	24.31	3,559.62	833.65	1,541.42	1,456.22	85.20	18.092	
15,700.00	12,218.02	14,104.81	10,813.50	63.29	57.31	24.32	3,659.62	832.99	1,541.27	1,454.65	86.62	17.794	
15,800.00	12,217.85	14,204.81	10,813.50	64.25	58.61	24.32	3,759.61	832.32	1,541.11	1,453.06	88.05	17.503	
15,900.00	12,217.67	14,304.81	10,813.50	65.24	59.91	24.32	3,859.61	831.66	1,540.95	1,451.46	89.49	17.219	
16,000.00	12,217.50	14,404.81	10,813.50	66.23	61.23	24.33	3,959.61	831.00	1,540.79	1,449.84	90.95	16.941	
16,100.00	12,217.33	14,504.81	10,813.50	67.23	62.55	24.33	4,059.61	830.34	1,540.63	1,448.21	92.42	16.670	
16,200.00	12,217.15	14,604.81	10,813.50	68.24	63.87	24.33	4,159.60	829.68	1,540.47	1,446.57	93.90	16.405	
16,300.00	12,216.98	14,704.81	10,813.50	69.27	65.20	24.33	4,259.60	829.01	1,540.31	1,444.92	95.40	16.146	
16,400.00	12,216.80	14,804.81	10,813.50	70.30	66.53	24.34	4,359.60	828.35	1,540.16	1,443.25	96.90	15.894	
16,500.00	12,216.63	14,904.81	10,813.50	71.34	67.87	24.34	4,459.60	827.69	1,540.00	1,441.58	98.42	15.647	
16,600.00	12,216.45	15,004.81	10,813.50	72.39	69.21	24.34	4,559.60	827.03	1,539.84	1,439.89	99.95	15.406	
16,700.00	12,216.28	15,104.81	10,813.50	73.45	70.56	24.34	4,659.59	826.37	1,539.68	1,438.19	101.49	15.171	
16,800.00	12,216.10	15,204.81	10,813.50	74.52	71.91	24.35	4,759.59	825.70	1,539.52	1,436.49	103.03	14.942	
16,900.00	12,215.93	15,304.81	10,813.50	75.60	73.26	24.35	4,859.59	825.04	1,539.36	1,434.77	104.59	14.718	
17,000.00	12,215.75	15,404.81	10,813.50	76.68	74.62	24.35	4,959.59	824.38	1,539.20	1,433.05	106.16	14.499	
17,100.00	12,215.58	15,504.81	10,813.50	77.77	75.98	24.36	5,059.58	823.72	1,539.05	1,431.32	107.73	14.286	
17,200.00	12,215.41	15,604.81	10,813.50	78.86	77.34	24.36	5,159.58	823.05	1,538.89	1,429.58	109.31	14.078	
17,300.00	12,215.23	15,704.81	10,813.50	79.97	78.71	24.36	5,259.58	822.39	1,538.73	1,427.83	110.90	13.875	
17,400.00	12,215.06	15,804.81	10,813.50	81.07	80.07	24.36	5,359.58	821.73	1,538.57	1,426.07	112.50	13.676	
17,500.00	12,214.88	15,904.81	10,813.50	82.19	81.44	24.37	5,459.57	821.07	1,538.41	1,424.31	114.10	13.483	
17,600.00	12,214.71	16,004.80	10,813.50	83.31	82.82	24.37	5,559.57	820.41	1,538.25	1,422.54	115.71	13.294	
17,700.00	12,214.53	16,104.80	10,813.50	84.44	84.19	24.37	5,659.57	819.74	1,538.10	1,420.76	117.33	13.109	
17,800.00	12,214.36	16,204.80	10,813.50	85.57	85.57	24.37	5,759.57	819.08	1,537.94	1,418.98	118.96	12.929	
17,900.00	12,214.18	16,304.80	10,813.50	86.70	86.95	24.38	5,859.56	818.42	1,537.78	1,417.19	120.58	12.753	
18,000.00	12,214.01	16,404.80	10,813.50	87.84	88.33	24.38	5,959.56	817.76	1,537.62	1,415.40	122.22	12.581	
18,100.00	12,213.83	16,504.80	10,813.50	88.99	89.71	24.38	6,059.56	817.10	1,537.46	1,413.60	123.86	12.413	
18,200.00	12,213.66	16,604.80	10,813.50	90.14	91.09	24.39	6,159.56	816.43	1,537.30	1,411.80	125.51	12.249	
18,300.00	12,213.49	16,704.80	10,813.50	91.30	92.48	24.39	6,259.56	815.77	1,537.14	1,409.99	127.16	12.088	
18,400.00	12,213.31	16,804.80	10,813.50	92.45	93.87	24.39	6,359.55	815.11	1,536.99	1,408.17	128.82	11.932	
18,500.00	12,213.14	16,904.80	10,813.50	93.62	95.25	24.39	6,459.55	814.45	1,536.83	1,406.35	130.48	11.779	
18,600.00	12,212.96	17,004.80	10,813.50	94.78	96.64	24.40	6,559.55	813.79	1,536.67	1,404.53	132.14	11.629	
18,700.00	12,212.79	17,104.80	10,813.50	95.95	98.04	24.40	6,659.55	813.12	1,536.51	1,402.70	133.81	11.482	
18,800.00	12,212.61	17,204.80	10,813.50	97.13	99.43	24.40	6,759.54	812.46	1,536.35	1,400.86	135.49	11.339	
18,900.00	12,212.44	17,304.80	10,813.50	98.31	100.82	24.40	6,859.54	811.80	1,536.19	1,399.03	137.17	11.199	
19,000.00	12,212.26	17,404.80	10,813.50	99.49	102.22	24.41	6,959.54	811.14	1,536.04	1,397.19	138.85	11.063	
19,100.00	12,212.09	17,504.80	10,813.50	100.67	103.61	24.41	7,059.54	810.48	1,535.88	1,395.34	140.54	10.929	
19,200.00	12,211.91	17,604.80	10,813.50	101.86	105.01	24.41	7,159.53	809.81	1,535.72	1,393.49	142.23	10.798	
19,300.00	12,211.74	17,704.80	10,813.50	103.05	106.41	24.42	7,259.53	809.15	1,535.56	1,391.64	143.92	10.670	
19,400.00	12,211.57	17,804.80	10,813.50	104.24	107.81	24.42	7,359.53	808.49	1,535.40	1,389.78	145.62	10.544	
19,500.00	12,211.39	17,904.80	10,813.50	105.44	109.21	24.42	7,459.53	807.83	1,535.24	1,387.93	147.32	10.421	
19,600.00	12,211.22	18,004.80	10,813.50	106.64	110.61	24.42	7,559.52	807.16	1,535.09	1,386.06	149.02	10.301	
19,700.00	12,211.04	18,104.80	10,813.50	107.84	112.01	24.43	7,659.52	806.50	1,534.93	1,384.20	150.73	10.183	
19,800.00	12,210.87	18,204.80	10,813.50	109.04	113.42	24.43	7,759.52	805.84	1,534.77	1,382.33	152.44	10.068	
19,900.00	12,210.69	18,304.80	10,813.50	110.25	114.82	24.43	7,859.52	805.18	1,534.61	1,380.46	154.15	9.955	
20,000.00	12,210.52	18,404.80	10,813.50	111.46	116.23	24.43	7,959.52	804.52	1,534.45	1,378.58	155.87	9.845	
20,100.00	12,210.34	18,504.80	10,813.50	112.67	117.63	24.44	8,059.51	803.85	1,534.29	1,376.71	157.59	9.736	
20,200.00	12,210.17	18,604.80	10,813.50	113.88	119.04	24.44	8,159.51	803.19	1,534.13	1,374.83	159.31	9.630	
20,300.00	12,209.99	18,704.80	10,813.50	115.10	120.45	24.44	8,259.51	802.53	1,533.98	1,372.94	161.03	9.526	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 216H - OH - Plan 4 12-01-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,400.00	12,209.82	18,804.80	10,813.50	116.31	121.85	24.45	8,359.51	801.87	1,533.82	1,371.06	162.76	9.424	
20,500.00	12,209.65	18,904.80	10,813.50	117.53	123.26	24.45	8,459.50	801.21	1,533.66	1,369.17	164.49	9.324	
20,600.00	12,209.47	19,004.80	10,813.50	118.75	124.67	24.45	8,559.50	800.54	1,533.50	1,367.28	166.22	9.226	
20,700.00	12,209.30	19,104.80	10,813.50	119.98	126.08	24.45	8,659.50	799.88	1,533.34	1,365.39	167.95	9.130	
20,800.00	12,209.12	19,204.80	10,813.50	121.20	127.49	24.46	8,759.50	799.22	1,533.18	1,363.50	169.69	9.035	
20,900.00	12,208.95	19,304.80	10,813.50	122.43	128.90	24.46	8,859.49	798.56	1,533.03	1,361.60	171.42	8.943	
21,000.00	12,208.77	19,404.80	10,813.50	123.66	130.32	24.46	8,959.49	797.90	1,532.87	1,359.70	173.16	8.852	
21,100.00	12,208.60	19,504.80	10,813.50	124.89	131.73	24.46	9,059.49	797.23	1,532.71	1,357.80	174.91	8.763	
21,200.00	12,208.42	19,604.80	10,813.50	126.12	133.14	24.47	9,159.49	796.57	1,532.55	1,355.90	176.65	8.676	
21,300.00	12,208.25	19,704.80	10,813.50	127.35	134.55	24.47	9,259.48	795.91	1,532.39	1,354.00	178.40	8.590	
21,400.00	12,208.07	19,804.80	10,813.50	128.59	135.97	24.47	9,359.48	795.25	1,532.23	1,352.09	180.14	8.506	
21,500.00	12,207.90	19,904.80	10,813.50	129.82	137.38	24.48	9,459.48	794.59	1,532.08	1,350.18	181.89	8.423	
21,600.00	12,207.73	20,004.80	10,813.50	131.06	138.80	24.48	9,559.48	793.92	1,531.92	1,348.27	183.64	8.342	
21,700.00	12,207.55	20,104.80	10,813.50	132.30	140.21	24.48	9,659.48	793.26	1,531.76	1,346.36	185.40	8.262	
21,800.00	12,207.38	20,204.80	10,813.50	133.54	141.63	24.48	9,759.47	792.60	1,531.60	1,344.45	187.15	8.184	
21,900.00	12,207.20	20,304.80	10,813.50	134.78	143.04	24.49	9,859.47	791.94	1,531.44	1,342.54	188.91	8.107	
22,000.00	12,207.03	20,404.80	10,813.50	136.03	144.46	24.49	9,959.47	791.27	1,531.28	1,340.62	190.67	8.031	
22,100.00	12,206.85	20,504.80	10,813.50	137.27	145.88	24.49	10,059.47	790.61	1,531.13	1,338.70	192.42	7.957	
22,200.00	12,206.68	20,604.80	10,813.50	138.52	147.30	24.49	10,159.46	789.95	1,530.97	1,336.78	194.19	7.884	
22,300.00	12,206.50	20,704.80	10,813.50	139.76	148.71	24.50	10,259.46	789.29	1,530.81	1,334.86	195.95	7.812	
22,400.00	12,206.33	20,804.80	10,813.50	141.01	150.13	24.50	10,359.46	788.63	1,530.65	1,332.94	197.71	7.742	
22,500.00	12,206.16	20,904.80	10,813.50	142.26	151.55	24.50	10,459.46	787.96	1,530.49	1,331.02	199.48	7.673	
22,600.00	12,205.98	21,004.80	10,813.50	143.51	152.97	24.51	10,559.45	787.30	1,530.33	1,329.09	201.24	7.604	
22,700.00	12,205.81	21,104.80	10,813.50	144.76	154.39	24.51	10,659.45	786.64	1,530.18	1,327.17	203.01	7.537	
22,800.00	12,205.63	21,204.80	10,813.50	146.02	155.81	24.51	10,759.45	785.98	1,530.02	1,325.24	204.78	7.472	
22,900.00	12,205.46	21,304.80	10,813.50	147.27	157.23	24.51	10,859.45	785.32	1,529.86	1,323.31	206.55	7.407	
23,000.00	12,205.28	21,404.80	10,813.50	148.52	158.65	24.52	10,959.45	784.65	1,529.70	1,321.38	208.32	7.343	
23,100.00	12,205.11	21,504.80	10,813.50	149.78	160.07	24.52	11,059.44	783.99	1,529.54	1,319.45	210.09	7.280	
23,200.00	12,204.93	21,604.80	10,813.50	151.04	161.49	24.52	11,159.44	783.33	1,529.39	1,317.52	211.87	7.219	
23,251.42	12,204.84	21,656.21	10,813.50	151.68	162.22	24.52	11,210.86	782.99	1,529.30	1,316.52	212.78	7.187 SF	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 223H - OH - Prelim													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	5.50	1.00	1.00	-90.61	-6.14	-580.04	580.10					
100.00	100.00	94.50	100.00	1.01	1.08	-104.53	-6.14	-580.04	580.23	578.14	2.09	277.941		
200.00	199.98	194.48	199.98	1.08	1.57	-77.38	-6.14	-580.04	580.38	577.73	2.65	218.956		
300.00	299.96	294.46	299.96	1.26	1.99	-62.73	-6.14	-580.04	579.58	576.33	3.25	178.135		
376.47	376.43	370.93	376.43	1.45	2.25	-96.30	-6.14	-580.04	579.30	575.60	3.70	156.483		
400.00	399.95	394.45	399.95	1.51	2.34	-107.24	-6.14	-580.04	579.20	575.36	3.85	150.620 CC, ES		
500.00	499.92	494.42	499.92	1.79	2.64	-147.88	-6.14	-580.04	580.59	576.16	4.43	131.052		
600.00	599.89	594.39	599.89	2.09	2.91	-154.22	-6.14	-580.04	582.93	577.93	5.01	116.440		
700.00	699.85	694.35	699.85	2.41	3.17	-159.21	-6.14	-580.04	585.39	579.82	5.58	105.001		
800.00	799.82	794.32	799.82	2.74	3.40	-164.11	-6.14	-580.04	587.96	581.83	6.14	95.812		
900.00	899.80	894.30	899.80	3.07	3.62	176.08	-6.14	-580.04	589.49	582.80	6.69	88.122		
1,000.00	999.80	994.30	999.80	3.40	3.84	165.55	-6.14	-580.04	590.38	583.14	7.23	81.607		
1,100.00	1,099.80	1,094.30	1,099.80	3.74	4.04	173.33	-6.14	-580.04	591.01	583.24	7.77	76.021		
1,200.00	1,199.79	1,194.29	1,199.79	4.08	4.23	-150.96	-6.14	-580.04	591.51	583.20	8.31	71.167		
1,300.00	1,299.79	1,294.29	1,299.79	4.43	4.42	-101.23	-6.14	-580.04	591.84	583.00	8.84	66.922		
1,365.20	1,364.99	1,358.23	1,363.73	4.65	4.48	-73.71	-6.14	-580.05	591.82	582.69	9.13	64.819		
1,400.00	1,399.79	1,388.42	1,393.91	4.77	4.51	-64.69	-6.12	-580.24	591.92	582.65	9.27	63.822		
1,500.00	1,499.78	1,475.13	1,480.60	5.11	4.75	-48.29	-5.88	-582.08	593.32	583.46	9.85	60.208		
1,600.00	1,599.77	1,561.77	1,567.16	5.45	5.11	-32.25	-5.38	-585.86	596.28	585.74	10.53	56.603		
1,700.00	1,699.75	1,648.27	1,653.46	5.79	5.41	-19.07	-4.63	-591.59	601.28	590.12	11.16	53.886		
1,800.00	1,799.74	1,744.68	1,749.54	6.13	5.60	-22.05	-3.59	-599.52	608.05	596.38	11.67	52.085		
1,900.00	1,899.73	1,844.44	1,848.95	6.47	5.81	-21.68	-2.50	-607.79	614.89	602.66	12.23	50.282		
2,000.00	1,999.72	1,944.19	1,948.35	6.81	6.05	-0.58	-1.42	-616.07	621.87	609.07	12.81	48.548		
2,100.00	2,099.71	2,043.91	2,047.73	7.15	6.30	30.26	-0.33	-624.34	629.15	615.75	13.40	46.943		
2,200.00	2,199.71	2,143.63	2,147.10	7.49	6.57	9.92	0.75	-632.61	636.43	622.42	14.01	45.432		
2,300.00	2,299.70	2,243.37	2,246.49	7.83	6.85	5.69	1.84	-640.88	643.48	628.86	14.63	43.988		
2,400.00	2,399.69	2,343.11	2,345.88	8.18	7.14	18.04	2.92	-649.15	650.56	635.31	15.26	42.634		
2,500.00	2,499.69	2,442.82	2,445.24	8.52	7.43	31.57	4.01	-657.42	657.98	642.08	15.90	41.386		
2,600.00	2,599.68	2,542.52	2,544.59	8.87	7.74	22.45	5.09	-665.68	665.52	648.98	16.55	40.222		
2,700.00	2,699.68	2,642.22	2,643.94	9.21	8.05	2.72	6.17	-673.95	673.16	655.95	17.20	39.130		
2,800.00	2,799.68	2,741.92	2,743.29	9.56	8.36	-30.77	7.26	-682.22	680.89	663.02	17.87	38.106		
2,900.00	2,899.68	2,841.60	2,842.62	9.92	8.69	-62.69	8.34	-690.49	688.79	670.25	18.54	37.151		
3,000.00	2,899.68	2,941.27	2,941.94	10.27	9.01	-71.37	9.43	-698.75	696.89	677.67	19.22	36.263		
3,100.00	3,099.67	3,040.96	3,041.28	10.62	9.34	-65.32	10.51	-707.02	704.82	684.92	19.90	35.420		
3,200.00	3,199.67	3,140.65	3,140.62	10.98	9.68	-68.45	11.60	-715.29	712.68	692.10	20.58	34.621		
3,300.00	3,299.66	3,240.32	3,239.94	11.33	10.02	-83.66	12.68	-723.55	720.75	699.48	21.27	33.879		
3,400.00	3,399.66	3,339.97	3,339.25	11.68	10.36	-96.48	13.76	-731.82	729.05	707.09	21.97	33.190		
3,500.00	3,499.65	3,439.62	3,438.54	12.04	10.70	-99.32	14.85	-740.08	737.47	714.81	22.66	32.545		
3,600.00	3,599.65	3,539.28	3,537.86	12.39	11.05	-54.18	15.93	-748.34	745.66	722.30	23.36	31.923		
3,700.00	3,699.65	3,638.96	3,637.18	12.74	11.40	-71.38	17.01	-756.61	753.68	729.62	24.06	31.325		
3,800.00	3,799.65	3,738.63	3,736.51	13.10	11.75	-55.11	18.10	-764.88	761.70	736.94	24.76	30.759		
3,900.00	3,899.65	3,838.30	3,835.83	13.45	12.10	61.74	19.18	-773.14	769.73	744.27	25.46	30.231		
4,000.00	3,999.64	3,937.99	3,935.17	13.79	12.46	33.83	20.27	-781.41	777.49	751.33	26.16	29.721		
4,100.00	4,099.64	4,037.70	4,034.53	14.13	12.81	31.56	21.35	-789.68	784.93	758.07	26.86	29.220		
4,200.00	4,199.64	4,137.39	4,133.87	14.48	13.17	98.32	22.44	-797.94	792.68	765.11	27.57	28.755		
4,300.00	4,299.62	4,236.92	4,233.05	14.82	13.53	147.19	23.52	-806.20	802.11	773.84	28.27	28.375		
4,400.00	4,399.56	4,336.23	4,332.02	15.16	13.89	153.25	24.60	-814.43	813.46	784.50	28.97	28.082		
4,500.00	4,499.52	4,435.64	4,431.07	15.50	14.25	157.88	25.68	-822.68	824.16	794.50	29.67	27.779		
4,600.00	4,599.48	4,535.01	4,530.09	15.84	14.61	154.99	26.76	-830.92	835.15	804.78	30.37	27.498		
4,700.00	4,699.36	4,634.15	4,628.89	16.19	14.97	152.50	27.84	-839.14	847.81	816.74	31.08	27.282		
4,800.00	4,799.16	4,733.11	4,727.50	16.53	15.34	153.61	28.91	-847.35	861.72	829.94	31.78	27.113		
4,900.00	4,899.01	4,832.19	4,826.24	16.87	15.70	156.31	29.99	-855.56	874.85	842.36	32.49	26.927		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 223H - OH - Prelim													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,998.96	4,931.52	4,925.21	17.22	16.07	152.78	31.07	-863.80	886.22	853.02	33.20	26.694		
5,100.00	5,098.90	5,030.85	5,024.20	17.56	16.43	153.96	32.15	-872.04	897.52	863.61	33.91	26.468		
5,200.00	5,198.84	5,130.17	5,123.17	17.91	16.80	151.18	33.23	-880.27	908.89	874.26	34.62	26.251		
5,300.00	5,298.82	5,229.62	5,222.28	18.26	17.17	-174.28	34.31	-888.52	919.20	883.86	35.34	26.012		
5,400.00	5,398.81	5,329.30	5,321.60	18.60	17.54	-46.38	35.40	-896.79	927.17	891.11	36.05	25.716		
5,500.00	5,498.79	5,429.05	5,421.00	18.96	17.91	-43.88	36.48	-905.06	934.23	897.46	36.77	25.405		
5,600.00	5,598.78	5,528.80	5,520.40	19.31	18.28	-36.24	37.57	-913.33	941.31	903.81	37.49	25.106		
5,700.00	5,698.77	5,628.54	5,619.80	19.66	18.65	-37.79	38.65	-921.60	948.45	910.24	38.22	24.819		
5,800.00	5,798.76	5,728.27	5,719.17	20.01	19.02	-45.78	39.74	-929.87	955.87	916.93	38.94	24.549		
5,900.00	5,898.75	5,827.98	5,818.54	20.36	19.39	-47.53	40.82	-938.14	963.38	923.72	39.66	24.291		
6,000.00	5,998.74	5,927.71	5,917.92	20.72	19.76	-48.65	41.91	-946.41	970.79	930.41	40.38	24.039		
6,100.00	6,098.73	6,027.44	6,017.30	21.07	20.14	-48.61	42.99	-954.68	978.10	936.99	41.11	23.794		
6,200.00	6,198.72	6,127.17	6,116.68	21.42	20.51	-49.21	44.08	-962.95	985.40	943.57	41.83	23.556		
6,300.00	6,298.70	6,226.91	6,216.07	21.77	20.88	-47.61	45.16	-971.23	992.58	950.02	42.56	23.324		
6,400.00	6,398.69	6,326.67	6,315.48	22.13	21.26	4.30	46.25	-979.50	999.53	956.25	43.28	23.094		
6,500.00	6,498.67	6,426.44	6,414.90	22.47	21.63	33.00	47.33	-987.77	1,006.08	962.08	44.00	22.863		
6,600.00	6,598.65	6,526.19	6,514.30	22.82	22.01	70.67	48.42	-996.04	1,012.90	968.17	44.73	22.646		
6,700.00	6,698.64	6,625.79	6,613.56	23.16	22.38	158.48	49.50	-1,004.30	1,021.62	976.17	45.45	22.479		
6,800.00	6,798.64	6,725.37	6,712.78	23.51	22.76	-175.21	50.58	-1,012.56	1,030.79	984.62	46.17	22.327		
6,900.00	6,898.64	6,824.96	6,812.02	23.86	23.13	-165.63	51.67	-1,020.82	1,039.81	992.92	46.89	22.176		
7,000.00	6,998.64	6,924.56	6,911.28	24.20	23.51	170.10	52.75	-1,029.08	1,048.68	1,001.07	47.61	22.027		
7,100.00	7,098.63	7,024.18	7,010.55	24.55	23.88	129.79	53.83	-1,037.34	1,057.37	1,009.04	48.33	21.878		
7,200.00	7,198.63	7,123.79	7,109.81	24.89	24.26	125.49	54.92	-1,045.60	1,066.08	1,017.03	49.05	21.734		
7,300.00	7,298.63	7,223.39	7,209.06	25.23	24.64	130.87	56.00	-1,053.86	1,074.89	1,025.12	49.77	21.596		
7,400.00	7,398.63	7,323.01	7,308.32	25.58	25.01	122.80	57.08	-1,062.12	1,083.61	1,033.11	50.50	21.459		
7,500.00	7,498.62	7,422.62	7,407.59	25.92	25.39	114.11	58.17	-1,070.38	1,092.29	1,041.07	51.22	21.326		
7,600.00	7,598.62	7,522.23	7,506.85	26.27	25.77	107.69	59.25	-1,078.64	1,100.97	1,049.02	51.94	21.196		
7,700.00	7,698.61	7,621.81	7,606.08	26.62	26.14	109.43	60.33	-1,086.90	1,109.80	1,057.13	52.67	21.072		
7,800.00	7,798.59	7,721.40	7,705.32	26.96	26.52	109.48	61.41	-1,095.16	1,118.68	1,065.28	53.39	20.952		
7,900.00	7,898.58	7,820.98	7,804.55	27.31	26.90	122.24	62.50	-1,103.42	1,127.56	1,073.44	54.12	20.835		
8,000.00	7,998.58	7,920.59	7,903.82	27.66	27.27	-120.70	63.58	-1,111.68	1,136.32	1,081.47	54.85	20.718		
8,100.00	8,098.58	8,020.23	8,003.10	28.01	27.65	-99.56	64.66	-1,119.94	1,144.82	1,089.24	55.57	20.600		
8,200.00	8,198.58	8,119.87	8,102.40	28.36	28.03	-96.18	65.75	-1,128.21	1,153.25	1,096.95	56.30	20.484		
8,300.00	8,298.58	8,219.53	8,201.71	28.71	28.41	-16.32	66.83	-1,136.47	1,161.52	1,104.49	57.03	20.368		
8,400.00	8,398.57	8,319.20	8,301.03	29.06	28.79	35.48	67.92	-1,144.74	1,169.54	1,111.78	57.76	20.250		
8,500.00	8,498.57	8,418.88	8,400.36	29.40	29.17	51.55	69.00	-1,153.00	1,177.45	1,119.97	58.48	20.133		
8,600.00	8,598.57	8,518.57	8,499.70	29.75	29.54	48.28	70.08	-1,161.27	1,185.22	1,126.01	59.21	20.017		
8,700.00	8,698.56	8,618.28	8,599.06	30.10	29.92	45.37	71.17	-1,169.54	1,192.79	1,132.85	59.94	19.900		
8,800.00	8,798.55	8,723.68	8,704.09	30.45	30.33	37.99	72.31	-1,178.24	1,200.07	1,139.37	60.70	19.770		
8,900.00	8,898.54	8,869.28	8,849.43	30.80	30.87	41.91	73.44	-1,186.88	1,204.99	1,143.36	61.63	19.552		
9,000.00	8,998.54	9,015.23	8,995.33	31.15	31.31	47.29	73.86	-1,190.03	1,206.33	1,143.95	62.38	19.337		
9,100.00	9,098.53	9,118.43	9,098.53	31.49	31.34	56.61	73.86	-1,190.04	1,205.73	1,142.97	62.76	19.212		
9,200.00	9,198.53	9,218.42	9,198.53	31.84	31.37	66.50	73.86	-1,190.04	1,205.21	1,142.07	63.14	19.089		
9,300.00	9,298.52	9,318.42	9,298.52	32.19	31.40	83.77	73.86	-1,190.04	1,204.88	1,141.36	63.52	18.969		
9,324.39	9,322.90	9,342.80	9,322.90	32.27	31.40	90.04	73.86	-1,190.04	1,204.87	1,141.26	63.61	18.942		
9,400.00	9,398.52	9,418.42	9,398.52	32.54	31.42	109.09	73.86	-1,190.04	1,205.07	1,141.18	63.89	18.860		
9,500.00	9,498.51	9,518.41	9,498.51	32.89	31.45	109.61	73.86	-1,190.04	1,205.33	1,141.05	64.27	18.753		
9,600.00	9,598.51	9,618.41	9,598.51	33.23	31.48	-140.34	73.86	-1,190.04	1,205.65	1,141.00	64.65	18.649		
9,700.00	9,698.51	9,718.41	9,698.51	33.58	31.51	-101.78	73.86	-1,190.04	1,206.02	1,140.99	65.03	18.546		
9,800.00	9,798.50	9,818.40	9,798.50	33.93	31.54	-83.44	73.86	-1,190.04	1,206.04	1,140.64	65.41	18.440		
9,900.00	9,898.48	9,918.38	9,898.48	34.28	31.57	-86.88	73.86	-1,190.04	1,205.83	1,140.04	65.78	18.331		
9,907.46	9,905.94	9,925.84	9,905.94	34.31	31.57	-90.00	73.86	-1,190.04	1,205.82	1,140.01	65.81	18.323		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 223H - OH - Prelim												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.00	9,998.47	10,018.37	9,998.47	34.63	31.60	-139.68	73.86	-1,190.04	1,206.21	1,140.05	66.16	18.232	
10,100.00	10,098.45	10,118.35	10,098.45	34.98	31.63	178.90	73.86	-1,190.04	1,208.10	1,141.57	66.54	18.157	
10,200.00	10,198.42	10,218.32	10,198.42	35.33	31.66	-173.41	73.86	-1,190.04	1,210.39	1,143.47	66.91	18.088	
10,300.00	10,298.42	10,318.32	10,298.42	35.68	31.69	-152.98	73.86	-1,190.04	1,211.18	1,143.89	67.29	17.998	
10,400.00	10,398.42	10,418.32	10,398.42	36.03	31.72	-59.56	73.86	-1,190.04	1,211.34	1,143.67	67.67	17.900	
10,500.00	10,498.42	10,518.32	10,498.42	36.38	31.75	37.76	73.86	-1,190.04	1,210.86	1,142.81	68.05	17.793	
10,600.00	10,598.41	10,618.31	10,598.41	36.72	31.78	49.54	73.86	-1,190.04	1,210.03	1,141.60	68.43	17.682	
10,700.00	10,698.40	10,723.96	10,703.90	37.07	31.81	72.75	77.67	-1,189.66	1,209.32	1,140.53	68.79	17.579	
10,800.00	10,798.39	10,827.78	10,804.65	37.42	31.84	59.31	101.73	-1,187.21	1,208.01	1,138.83	69.18	17.462	
10,896.73	10,895.10	10,914.48	10,883.16	37.76	31.88	59.66	138.04	-1,183.53	1,207.19	1,137.58	69.61	17.342	
10,900.00	10,898.37	10,917.05	10,885.39	37.77	31.88	59.69	139.33	-1,183.39	1,207.24	1,137.61	69.63	17.339	
11,000.00	10,998.36	10,990.23	10,945.40	38.12	31.92	18.56	180.86	-1,179.18	1,208.59	1,138.51	70.08	17.246	
11,100.00	11,098.34	11,050.00	10,989.22	38.47	31.97	-3.06	221.25	-1,175.07	1,213.46	1,142.98	70.48	17.217	
11,200.00	11,198.33	11,100.00	11,021.75	38.82	32.02	7.60	259.00	-1,171.24	1,223.71	1,152.95	70.76	17.293	
11,300.00	11,298.32	11,133.64	11,041.33	39.17	32.06	-9.53	286.21	-1,168.48	1,240.22	1,169.36	70.87	17.501	
11,400.00	11,398.31	11,164.29	11,057.44	39.52	32.10	-29.51	312.14	-1,165.84	1,263.01	1,192.21	70.80	17.838	
11,500.00	11,498.30	11,189.67	11,069.50	39.87	32.13	-31.26	334.35	-1,163.58	1,291.54	1,220.96	70.57	18.301	
11,600.00	11,598.26	11,210.95	11,078.69	40.22	32.16	-26.25	353.45	-1,161.65	1,325.64	1,255.44	70.20	18.885	
11,700.00	11,698.13	11,225.00	11,084.28	40.57	32.19	-62.12	366.27	-1,160.34	1,364.77	1,295.11	69.67	19.590	
11,800.00	11,797.26	11,250.00	11,093.28	40.92	32.23	-51.42	389.47	-1,157.99	1,406.96	1,337.80	69.16	20.344	
11,900.00	11,894.04	11,275.00	11,101.05	41.25	32.27	-38.80	413.11	-1,155.59	1,443.94	1,375.38	68.56	21.061	
12,000.00	11,984.36	11,289.48	11,104.98	41.58	32.30	-41.74	426.98	-1,154.18	1,472.90	1,405.08	67.82	21.717	
12,100.00	12,063.58	11,314.17	11,110.69	41.88	32.35	-44.03	450.87	-1,151.75	1,496.40	1,429.20	67.20	22.268	
12,200.00	12,127.93	11,341.40	11,115.55	42.16	32.41	-46.51	477.52	-1,149.04	1,516.08	1,449.35	66.73	22.721	
12,300.00	12,174.23	11,375.00	11,119.42	42.41	32.49	-48.92	510.72	-1,145.67	1,537.70	1,471.12	66.58	23.095	
12,400.00	12,207.18	11,400.00	11,120.78	42.64	32.55	-48.37	535.55	-1,143.15	1,569.54	1,502.82	66.72	23.525	
12,500.00	12,226.06	11,445.01	11,121.00	42.85	32.69	-46.37	580.35	-1,138.87	1,600.62	1,533.42	67.19	23.821	
12,600.00	12,231.93	11,500.00	11,121.06	43.07	32.87	-45.47	635.21	-1,135.02	1,626.45	1,558.54	67.91	23.949	
12,700.00	12,232.01	11,561.88	11,121.12	43.31	33.18	-46.09	697.03	-1,132.58	1,650.53	1,581.70	68.83	23.981	
12,800.00	12,232.36	11,620.56	11,121.18	46.60	33.46	-47.48	755.71	-1,132.12	1,671.39	1,602.20	69.19	24.155	
12,900.00	12,231.44	11,718.08	11,121.27	46.64	33.88	-48.12	853.23	-1,132.80	1,687.30	1,617.05	70.25	24.020	
13,000.00	12,231.18	11,815.87	11,121.37	46.69	34.35	-48.77	951.02	-1,133.48	1,702.84	1,631.50	71.34	23.869	
13,100.00	12,230.71	11,914.28	11,121.47	46.74	34.88	-49.33	1,049.43	-1,134.17	1,715.94	1,643.47	72.47	23.677	
13,200.00	12,230.03	12,013.21	11,121.57	46.79	35.46	-49.79	1,148.35	-1,134.86	1,726.55	1,652.91	73.64	23.446	
13,300.00	12,229.13	12,112.56	11,121.67	46.86	36.10	-50.16	1,247.70	-1,135.55	1,734.64	1,659.80	74.84	23.178	
13,400.00	12,228.02	12,212.21	11,121.77	46.94	36.79	-50.44	1,347.35	-1,136.25	1,740.15	1,664.08	76.07	22.876	
13,500.00	12,226.71	12,312.08	11,121.87	47.07	37.53	-50.64	1,447.21	-1,136.95	1,743.07	1,665.75	77.33	22.542	
13,600.00	12,225.18	12,412.04	11,121.97	47.30	38.31	-50.75	1,547.18	-1,137.64	1,743.38	1,664.77	78.61	22.179	
13,700.00	12,223.54	12,512.03	11,122.07	47.68	39.13	-50.79	1,647.16	-1,138.34	1,742.31	1,662.39	79.92	21.801	
13,800.00	12,221.91	12,612.01	11,122.17	48.18	39.98	-50.84	1,747.14	-1,139.04	1,741.23	1,659.95	81.28	21.424	
13,900.00	12,221.16	12,712.01	11,122.27	48.74	40.87	-50.85	1,847.13	-1,139.74	1,740.72	1,658.06	82.67	21.057	
14,000.00	12,220.99	12,812.01	11,122.37	49.34	41.80	-50.86	1,947.13	-1,140.44	1,740.58	1,656.48	84.09	20.698	
14,100.00	12,220.82	12,912.01	11,122.47	49.99	42.75	-50.87	2,047.13	-1,141.13	1,740.43	1,654.87	85.56	20.341	
14,200.00	12,220.64	13,012.01	11,122.57	50.66	43.73	-50.88	2,147.12	-1,141.83	1,740.29	1,653.22	87.06	19.988	
14,300.00	12,220.47	13,112.01	11,122.67	51.36	44.74	-50.89	2,247.12	-1,142.53	1,740.14	1,651.54	88.60	19.639	
14,400.00	12,220.29	13,212.01	11,122.76	52.08	45.77	-50.89	2,347.12	-1,143.23	1,739.99	1,649.81	90.18	19.295	
14,500.00	12,220.12	13,312.01	11,122.86	52.83	46.83	-50.90	2,447.12	-1,143.92	1,739.85	1,648.06	91.78	18.956	
14,600.00	12,219.94	13,412.01	11,122.96	53.60	47.90	-50.91	2,547.11	-1,144.62	1,739.70	1,646.28	93.42	18.622	
14,700.00	12,219.77	13,512.00	11,123.06	54.40	48.99	-50.92	2,647.11	-1,145.32	1,739.56	1,644.47	95.09	18.294	
14,800.00	12,219.59	13,612.00	11,123.16	55.21	50.11	-50.92	2,747.11	-1,146.02	1,739.41	1,642.63	96.78	17.972	
14,900.00	12,219.42	13,712.00	11,123.26	56.04	51.23	-50.93	2,847.10	-1,146.72	1,739.26	1,640.76	98.50	17.657	
15,000.00	12,219.24	13,812.00	11,123.36	56.89	52.38	-50.94	2,947.10	-1,147.41	1,739.12	1,638.87	100.25	17.348	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 223H - OH - Prelim												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis					Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,100.00	12,219.07	13,912.00	11,123.46	57.76	53.54	-50.95	3,047.10	-1,148.11	1,738.97	1,636.95	102.02	17.045	
15,200.00	12,218.90	14,012.00	11,123.56	58.64	54.71	-50.96	3,147.10	-1,148.81	1,738.83	1,635.01	103.81	16.749	
15,300.00	12,218.72	14,112.00	11,123.66	59.54	55.89	-50.96	3,247.09	-1,149.51	1,738.68	1,633.05	105.63	16.460	
15,400.00	12,218.55	14,212.00	11,123.76	60.46	57.09	-50.97	3,347.09	-1,150.20	1,738.53	1,631.07	107.47	16.177	
15,500.00	12,218.37	14,312.00	11,123.86	61.39	58.29	-50.98	3,447.09	-1,150.90	1,738.39	1,629.06	109.32	15.901	
15,600.00	12,218.20	14,412.00	11,123.96	62.33	59.51	-50.99	3,547.08	-1,151.60	1,738.24	1,627.04	111.20	15.632	
15,700.00	12,218.02	14,512.00	11,124.06	63.29	60.74	-50.99	3,647.08	-1,152.30	1,738.10	1,625.01	113.09	15.369	
15,800.00	12,217.85	14,612.00	11,124.16	64.25	61.97	-51.00	3,747.08	-1,153.00	1,737.95	1,622.95	115.00	15.113	
15,900.00	12,217.67	14,712.00	11,124.26	65.24	63.22	-51.01	3,847.08	-1,153.69	1,737.80	1,620.88	116.93	14.862	
16,000.00	12,217.50	14,812.00	11,124.36	66.23	64.47	-51.02	3,947.07	-1,154.39	1,737.66	1,618.79	118.87	14.618	
16,100.00	12,217.33	14,912.00	11,124.46	67.23	65.73	-51.03	4,047.07	-1,155.09	1,737.51	1,616.69	120.83	14.380	
16,200.00	12,217.15	15,012.00	11,124.56	68.24	67.00	-51.03	4,147.07	-1,155.79	1,737.37	1,614.57	122.80	14.148	
16,300.00	12,216.98	15,112.00	11,124.66	69.27	68.27	-51.04	4,247.06	-1,156.48	1,737.22	1,612.44	124.78	13.922	
16,400.00	12,216.80	15,212.00	11,124.76	70.30	69.55	-51.05	4,347.06	-1,157.18	1,737.08	1,610.30	126.78	13.701	
16,500.00	12,216.63	15,312.00	11,124.86	71.34	70.84	-51.06	4,447.06	-1,157.88	1,736.93	1,608.14	128.79	13.486	
16,600.00	12,216.45	15,412.00	11,124.96	72.39	72.13	-51.06	4,547.06	-1,158.58	1,736.79	1,605.97	130.81	13.277	
16,700.00	12,216.28	15,512.00	11,125.06	73.45	73.43	-51.07	4,647.05	-1,159.28	1,736.64	1,603.79	132.85	13.073	
16,800.00	12,216.10	15,612.00	11,125.16	74.52	74.73	-51.08	4,747.05	-1,159.97	1,736.49	1,601.60	134.89	12.873	
16,900.00	12,215.93	15,712.00	11,125.26	75.60	76.04	-51.09	4,847.05	-1,160.67	1,736.35	1,599.40	136.95	12.679	
17,000.00	12,215.75	15,812.00	11,125.36	76.68	77.35	-51.09	4,947.04	-1,161.37	1,736.20	1,597.19	139.01	12.490	
17,100.00	12,215.58	15,912.00	11,125.46	77.77	78.66	-51.10	5,047.04	-1,162.07	1,736.06	1,594.97	141.08	12.305	
17,200.00	12,215.41	16,012.00	11,125.56	78.86	79.99	-51.11	5,147.04	-1,162.77	1,735.91	1,592.75	143.17	12.125	
17,300.00	12,215.23	16,112.00	11,125.66	79.97	81.31	-51.12	5,247.04	-1,163.46	1,735.77	1,590.51	145.26	11.949	
17,400.00	12,215.06	16,211.99	11,125.76	81.07	82.64	-51.13	5,347.03	-1,164.16	1,735.62	1,588.26	147.36	11.778	
17,500.00	12,214.88	16,311.99	11,125.86	82.19	83.97	-51.13	5,447.03	-1,164.86	1,735.48	1,586.01	149.47	11.611	
17,600.00	12,214.71	16,411.99	11,125.96	83.31	85.30	-51.14	5,547.03	-1,165.56	1,735.33	1,583.75	151.58	11.448	
17,700.00	12,214.53	16,511.99	11,126.06	84.44	86.64	-51.15	5,647.02	-1,166.25	1,735.19	1,581.48	153.71	11.289	
17,800.00	12,214.36	16,611.99	11,126.16	85.57	87.98	-51.16	5,747.02	-1,166.95	1,735.04	1,579.20	155.84	11.134	
17,900.00	12,214.18	16,711.99	11,126.26	86.70	89.33	-51.16	5,847.02	-1,167.65	1,734.90	1,576.92	157.98	10.982	
18,000.00	12,214.01	16,811.99	11,126.36	87.84	90.68	-51.17	5,947.02	-1,168.35	1,734.75	1,574.63	160.12	10.834	
18,100.00	12,213.83	16,911.99	11,126.46	88.99	92.03	-51.18	6,047.01	-1,169.05	1,734.61	1,572.33	162.27	10.689	
18,200.00	12,213.66	17,011.99	11,126.56	90.14	93.38	-51.19	6,147.01	-1,169.74	1,734.46	1,570.03	164.43	10.548	
18,300.00	12,213.49	17,111.99	11,126.66	91.30	94.73	-51.20	6,247.01	-1,170.44	1,734.32	1,567.72	166.59	10.411	
18,400.00	12,213.31	17,211.99	11,126.76	92.45	96.09	-51.20	6,347.00	-1,171.14	1,734.17	1,565.41	168.76	10.276	
18,500.00	12,213.14	17,311.99	11,126.85	93.62	97.45	-51.21	6,447.00	-1,171.84	1,734.03	1,563.09	170.94	10.144	
18,600.00	12,212.96	17,411.99	11,126.95	94.78	98.81	-51.22	6,547.00	-1,172.53	1,733.88	1,560.77	173.11	10.016	
18,700.00	12,212.79	17,511.99	11,127.05	95.95	100.18	-51.23	6,647.00	-1,173.23	1,733.74	1,558.44	175.30	9.890	
18,800.00	12,212.61	17,611.99	11,127.15	97.13	101.54	-51.23	6,746.99	-1,173.93	1,733.59	1,556.10	177.49	9.767	
18,900.00	12,212.44	17,711.99	11,127.25	98.31	102.91	-51.24	6,846.99	-1,174.63	1,733.45	1,553.77	179.68	9.647	
19,000.00	12,212.26	17,811.99	11,127.35	99.49	104.28	-51.25	6,946.99	-1,175.33	1,733.30	1,551.42	181.88	9.530	
19,100.00	12,212.09	17,911.99	11,127.45	100.67	105.65	-51.26	7,046.98	-1,176.02	1,733.16	1,549.07	184.08	9.415	
19,200.00	12,211.91	18,011.99	11,127.55	101.86	107.03	-51.27	7,146.98	-1,176.72	1,733.01	1,546.72	186.29	9.303	
19,300.00	12,211.74	18,111.99	11,127.65	103.05	108.40	-51.27	7,246.98	-1,177.42	1,732.87	1,544.37	188.50	9.193	
19,400.00	12,211.57	18,211.99	11,127.75	104.24	109.78	-51.28	7,346.97	-1,178.12	1,732.72	1,542.00	190.72	9.085	
19,500.00	12,211.39	18,311.99	11,127.85	105.44	111.16	-51.29	7,446.97	-1,178.81	1,732.58	1,539.64	192.94	8.980	
19,600.00	12,211.22	18,411.99	11,127.95	106.64	112.54	-51.30	7,546.97	-1,179.51	1,732.44	1,537.27	195.16	8.877	
19,700.00	12,211.04	18,511.99	11,128.05	107.84	113.92	-51.30	7,646.97	-1,180.21	1,732.29	1,534.90	197.39	8.776	
19,800.00	12,210.87	18,611.99	11,128.15	109.04	115.30	-51.31	7,746.96	-1,180.91	1,732.15	1,532.53	199.62	8.677	
19,900.00	12,210.69	18,711.99	11,128.25	110.25	116.68	-51.32	7,846.96	-1,181.61	1,732.00	1,530.15	201.86	8.580	
20,000.00	12,210.52	18,811.98	11,128.35	111.46	118.07	-51.33	7,946.96	-1,182.30	1,731.86	1,527.76	204.09	8.486	
20,100.00	12,210.34	18,911.98	11,128.45	112.67	119.45	-51.34	8,046.95	-1,183.00	1,731.71	1,525.38	206.33	8.393	
20,200.00	12,210.17	19,011.98	11,128.55	113.88	120.84	-51.34	8,146.95	-1,183.70	1,731.57	1,522.99	208.58	8.302	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 223H - OH - Prelim												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,300.00	12,209.99	19,111.98	11,128.65	115.10	122.23	-51.35	8,246.95	-1,184.40	1,731.42	1,520.60	210.82	8.213	
20,400.00	12,209.82	19,211.98	11,128.75	116.31	123.62	-51.36	8,346.95	-1,185.09	1,731.28	1,518.21	213.07	8.125	
20,500.00	12,209.65	19,311.98	11,128.85	117.53	125.01	-51.37	8,446.94	-1,185.79	1,731.14	1,515.81	215.33	8.040	
20,600.00	12,209.47	19,411.98	11,128.95	118.75	126.40	-51.38	8,546.94	-1,186.49	1,730.99	1,513.41	217.58	7.956	
20,700.00	12,209.30	19,511.98	11,129.05	119.98	127.80	-51.38	8,646.94	-1,187.19	1,730.85	1,511.01	219.84	7.873	
20,800.00	12,209.12	19,611.98	11,129.15	121.20	129.19	-51.39	8,746.93	-1,187.89	1,730.70	1,508.60	222.10	7.792	
20,900.00	12,208.95	19,711.98	11,129.25	122.43	130.58	-51.40	8,846.93	-1,188.58	1,730.56	1,506.19	224.37	7.713	
21,000.00	12,208.77	19,811.98	11,129.35	123.66	131.98	-51.41	8,946.93	-1,189.28	1,730.42	1,503.78	226.63	7.635	
21,100.00	12,208.60	19,911.98	11,129.45	124.89	133.38	-51.41	9,046.93	-1,189.98	1,730.27	1,501.37	228.90	7.559	
21,200.00	12,208.42	20,011.98	11,129.55	126.12	134.77	-51.42	9,146.92	-1,190.68	1,730.13	1,498.96	231.17	7.484	
21,300.00	12,208.25	20,111.98	11,129.65	127.35	136.17	-51.43	9,246.92	-1,191.38	1,729.98	1,496.54	233.44	7.411	
21,400.00	12,208.07	20,211.98	11,129.75	128.59	137.57	-51.44	9,346.92	-1,192.07	1,729.84	1,494.12	235.72	7.339	
21,500.00	12,207.90	20,311.98	11,129.85	129.82	138.97	-51.45	9,446.91	-1,192.77	1,729.70	1,491.70	238.00	7.268	
21,600.00	12,207.73	20,411.98	11,129.95	131.06	140.37	-51.45	9,546.91	-1,193.47	1,729.55	1,489.27	240.28	7.198	
21,700.00	12,207.55	20,511.98	11,130.05	132.30	141.77	-51.46	9,646.91	-1,194.17	1,729.41	1,486.85	242.56	7.130	
21,800.00	12,207.38	20,611.98	11,130.15	133.54	143.17	-51.47	9,746.91	-1,194.86	1,729.26	1,484.42	244.84	7.063	
21,900.00	12,207.20	20,711.98	11,130.25	134.78	144.58	-51.48	9,846.90	-1,195.56	1,729.12	1,481.99	247.13	6.997	
22,000.00	12,207.03	20,811.98	11,130.35	136.03	145.98	-51.48	9,946.90	-1,196.26	1,728.98	1,479.56	249.42	6.932	
22,100.00	12,206.85	20,911.98	11,130.45	137.27	147.38	-51.49	10,046.90	-1,196.96	1,728.83	1,477.13	251.71	6.868	
22,200.00	12,206.68	21,011.98	11,130.55	138.52	148.79	-51.50	10,146.89	-1,197.66	1,728.69	1,474.69	254.00	6.806	
22,300.00	12,206.50	21,111.98	11,130.65	139.76	150.19	-51.51	10,246.89	-1,198.35	1,728.55	1,472.25	256.29	6.744	
22,400.00	12,206.33	21,211.98	11,130.75	141.01	151.60	-51.52	10,346.89	-1,199.05	1,728.40	1,469.81	258.59	6.684	
22,500.00	12,206.16	21,311.98	11,130.84	142.26	153.01	-51.52	10,446.89	-1,199.75	1,728.26	1,467.37	260.89	6.625	
22,600.00	12,205.98	21,411.97	11,130.94	143.51	154.41	-51.53	10,546.88	-1,200.45	1,728.11	1,464.93	263.18	6.566	
22,700.00	12,205.81	21,511.97	11,131.04	144.76	155.82	-51.54	10,646.88	-1,201.14	1,727.97	1,462.49	265.48	6.509	
22,800.00	12,205.63	21,611.97	11,131.14	146.02	157.23	-51.55	10,746.88	-1,201.84	1,727.83	1,460.04	267.79	6.452	
22,900.00	12,205.46	21,711.97	11,131.24	147.27	158.64	-51.55	10,846.87	-1,202.54	1,727.68	1,457.59	270.09	6.397	
23,000.00	12,205.28	21,811.97	11,131.34	148.52	160.05	-51.56	10,946.87	-1,203.24	1,727.54	1,455.15	272.40	6.342	
23,100.00	12,205.11	21,911.97	11,131.44	149.78	161.46	-51.57	11,046.87	-1,203.94	1,727.40	1,452.70	274.70	6.288	
23,200.00	12,204.93	22,011.97	11,131.54	151.04	162.87	-51.58	11,146.87	-1,204.63	1,727.25	1,450.24	277.01	6.235	
23,250.65	12,204.84	22,060.14	11,131.59	151.67	163.55	-51.58	11,195.04	-1,204.97	1,727.18	1,449.03	278.15	6.210	
23,251.42	12,204.84	22,060.14	11,131.59	151.68	163.55	-51.58	11,195.04	-1,204.97	1,727.18	1,449.02	278.16	6.209 SF	



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 224H - OH - Plan 4 11-24-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.50	1.00	1.00	89.40	4.99	479.83	479.86					
100.00	100.00	99.50	100.00	1.01	1.09	75.60	4.99	479.83	479.71	477.61	2.10	228.888		
174.67	174.66	174.16	174.66	1.06	1.44	98.17	4.99	479.83	479.68	477.18	2.50	191.865		
200.00	199.98	199.48	199.98	1.08	1.60	103.10	4.99	479.83	479.56	476.88	2.68	178.767		
300.00	299.96	299.46	299.96	1.26	2.01	118.15	4.99	479.83	480.38	477.11	3.28	146.680		
400.00	399.95	399.45	399.95	1.51	2.35	74.03	4.99	479.83	480.79	476.93	3.86	124.464		
500.00	499.92	499.42	499.92	1.79	2.65	33.74	4.99	479.83	479.45	475.00	4.45	107.853		
600.00	599.89	599.39	599.89	2.09	2.93	27.68	4.99	479.83	477.14	472.12	5.02	95.048		
700.00	699.85	699.35	699.85	2.41	3.18	22.93	4.99	479.83	474.72	469.14	5.59	84.958		
800.00	799.82	799.32	799.82	2.74	3.41	18.23	4.99	479.83	472.19	466.04	6.15	76.798		
900.00	899.80	899.30	899.80	3.07	3.64	-1.52	4.99	479.83	470.68	463.98	6.70	70.244		
1,000.00	999.80	999.30	999.80	3.40	3.85	-12.08	4.99	479.83	469.78	462.54	7.24	64.843		
1,100.00	1,099.80	1,099.30	1,099.80	3.74	4.05	-4.33	4.99	479.83	469.14	461.35	7.78	60.266		
1,200.00	1,199.79	1,199.29	1,199.79	4.08	4.24	31.40	4.99	479.83	468.65	460.33	8.32	56.320		
1,300.00	1,299.79	1,299.29	1,299.79	4.43	4.43	81.23	4.99	479.83	468.33	459.48	8.85	52.901		
1,400.00	1,399.79	1,403.57	1,404.06	4.77	4.53	117.88	5.28	479.59	468.28	458.98	9.29	50.387		
1,500.00	1,499.78	1,512.20	1,512.65	5.11	4.91	134.18	7.63	477.63	467.21	457.32	9.89	47.245		
1,600.00	1,599.77	1,619.33	1,619.61	5.45	5.39	149.84	12.26	473.78	465.00	454.47	10.54	44.136		
1,700.00	1,699.75	1,719.20	1,719.26	5.79	5.67	162.46	17.35	469.54	462.37	451.29	11.08	41.733		
1,800.00	1,799.74	1,819.05	1,818.89	6.13	5.89	158.82	22.43	465.31	459.60	448.01	11.60	39.631		
1,900.00	1,899.73	1,918.91	1,918.53	6.47	6.12	158.55	27.52	461.07	456.89	444.77	12.12	37.691		
2,000.00	1,999.72	2,018.75	2,018.15	6.81	6.36	178.95	32.61	456.84	454.08	441.43	12.65	35.900		
2,100.00	2,099.71	2,118.55	2,117.73	7.15	6.62	-151.05	37.69	452.60	451.05	437.87	13.17	34.241		
2,200.00	2,199.71	2,218.34	2,217.30	7.49	6.88	-172.26	42.78	448.37	448.08	434.38	13.70	32.711		
2,300.00	2,299.70	2,318.16	2,316.90	7.83	7.16	-177.32	47.86	444.14	445.41	431.18	14.23	31.306		
2,400.00	2,399.69	2,417.97	2,416.49	8.18	7.44	-165.82	52.95	439.90	442.78	428.03	14.76	30.007		
2,500.00	2,499.69	2,517.76	2,516.06	8.52	7.73	-153.18	58.03	435.67	439.92	424.63	15.28	28.786		
2,600.00	2,599.68	2,617.54	2,615.63	8.87	8.02	-163.21	63.12	431.44	437.00	421.19	15.81	27.645		
2,700.00	2,699.68	2,717.34	2,715.20	9.21	8.32	176.19	68.20	427.21	434.05	417.71	16.33	26.574		
2,800.00	2,799.68	2,817.15	2,814.79	9.56	8.62	141.89	73.29	422.97	431.04	414.18	16.86	25.565		
2,900.00	2,899.68	2,916.96	2,914.39	9.92	8.93	109.20	78.37	418.74	427.89	410.50	17.39	24.609		
3,000.00	2,999.68	3,016.78	3,013.98	10.27	9.25	99.79	83.46	414.50	424.58	406.67	17.91	23.704		
3,100.00	3,099.67	3,116.61	3,113.60	10.62	9.56	105.16	88.55	410.27	421.45	403.01	18.44	22.860		
3,200.00	3,199.67	3,216.46	3,213.22	10.98	9.88	101.37	93.63	406.04	418.44	399.48	18.96	22.072		
3,300.00	3,299.66	3,316.28	3,312.83	11.33	10.20	85.45	98.72	401.80	415.29	395.82	19.48	21.324		
3,400.00	3,399.66	3,416.11	3,412.44	11.68	10.53	71.96	103.81	397.57	411.93	391.94	19.99	20.607		
3,500.00	3,499.65	3,515.93	3,512.04	12.04	10.86	68.44	108.89	393.33	408.54	388.04	20.50	19.930		
3,600.00	3,599.65	3,615.73	3,611.62	12.39	11.19	112.73	113.98	389.10	405.57	384.57	21.00	19.312		
3,700.00	3,699.65	3,715.55	3,711.22	12.74	11.52	94.71	119.06	384.87	402.79	381.29	21.50	18.733		
3,800.00	3,799.65	3,815.37	3,810.81	13.10	11.85	110.19	124.15	380.63	400.08	378.08	22.00	18.187		
3,900.00	3,899.65	3,915.15	3,910.38	13.45	12.19	-133.89	129.23	376.40	397.60	375.13	22.48	17.689		
4,000.00	3,999.64	4,014.93	4,009.94	13.79	12.52	-162.84	134.32	372.17	395.61	372.66	22.95	17.241		
4,100.00	4,099.64	4,114.71	4,109.50	14.13	12.86	-166.16	139.40	367.93	394.04	370.63	23.41	16.830		
4,200.00	4,199.64	4,214.49	4,209.06	14.48	13.20	-100.43	144.49	363.70	392.21	368.34	23.88	16.427		
4,300.00	4,299.62	4,314.16	4,308.51	14.82	13.54	-52.77	149.56	359.47	389.12	364.80	24.32	16.000		
4,400.00	4,399.56	4,413.66	4,407.79	15.16	13.88	-48.24	154.63	355.25	384.65	359.91	24.74	15.545		
4,500.00	4,499.52	4,513.25	4,507.16	15.50	14.23	-44.98	159.71	351.03	380.74	355.57	25.17	15.126		
4,600.00	4,599.48	4,612.81	4,606.51	15.84	14.57	-49.28	164.78	346.81	376.80	351.21	25.59	14.723		
4,700.00	4,699.36	4,712.17	4,705.65	16.19	14.91	-53.50	169.84	342.59	371.98	345.98	26.00	14.308		
4,800.00	4,799.16	4,811.36	4,804.62	16.53	15.25	-54.44	174.90	338.38	366.71	340.32	26.39	13.896		
4,900.00	4,899.01	4,910.67	4,903.71	16.87	15.60	-53.66	179.96	334.17	362.18	335.39	26.79	13.518		
5,000.00	4,998.96	5,010.19	5,003.01	17.22	15.95	-58.81	185.03	329.95	359.07	331.86	27.21	13.196		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 224H - OH - Plan 4 11-24-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,098.90	5,109.71	5,102.31	17.56	16.29	-59.28	190.10	325.73	356.30	328.67	27.63	12.894		
5,200.00	5,198.84	5,209.22	5,201.60	17.91	16.64	-63.76	195.17	321.51	353.80	325.74	28.06	12.609		
5,300.00	5,298.82	5,308.85	5,301.01	18.26	16.99	-30.74	200.25	317.28	351.92	323.42	28.50	12.348		
5,400.00	5,398.81	5,408.68	5,400.62	18.60	17.34	96.20	205.33	313.05	351.12	322.16	28.96	12.124		
5,500.00	5,498.79	5,508.56	5,500.28	18.96	17.69	97.94	210.42	308.81	350.85	321.42	29.43	11.923		
5,575.08	5,573.87	5,583.55	5,575.11	19.22	17.95	102.95	214.24	305.63	350.78	321.00	29.78	11.779	CC	
5,600.00	5,598.78	5,608.43	5,599.94	19.31	18.04	104.79	215.51	304.58	350.81	320.91	29.90	11.734		
5,700.00	5,698.77	5,708.30	5,699.58	19.66	18.39	102.40	220.60	300.34	350.90	320.53	30.37	11.555		
5,800.00	5,798.76	5,808.15	5,799.22	20.01	18.74	93.53	225.69	296.10	350.87	320.02	30.84	11.376		
5,900.00	5,898.75	5,908.00	5,898.85	20.36	19.10	90.89	230.77	291.87	350.84	319.52	31.32	11.200		
5,913.71	5,912.46	5,921.69	5,912.50	20.41	19.14	90.60	231.47	291.29	350.84	319.45	31.39	11.177		
6,000.00	5,998.74	6,007.87	5,998.49	20.72	19.45	88.92	235.86	287.63	350.85	319.04	31.81	11.029		
6,100.00	6,098.73	6,107.74	6,098.14	21.07	19.80	88.15	240.95	283.40	350.93	318.63	32.30	10.864		
6,200.00	6,198.72	6,207.61	6,197.79	21.42	20.16	86.75	246.04	279.16	351.08	318.28	32.80	10.704		
6,300.00	6,298.70	6,307.49	6,297.45	21.77	20.51	87.58	251.13	274.92	351.29	317.99	33.30	10.549		
6,400.00	6,398.69	6,407.36	6,397.10	22.13	20.86	138.74	256.22	270.69	352.03	318.22	33.81	10.413		
6,500.00	6,498.67	6,507.15	6,496.68	22.47	21.22	166.43	261.30	266.46	354.41	320.09	34.32	10.326		
6,600.00	6,598.65	6,606.91	6,596.22	22.82	21.57	-157.05	266.38	262.22	357.01	322.16	34.85	10.245		
6,700.00	6,698.64	6,706.65	6,695.73	23.16	21.93	-70.50	271.47	257.99	357.91	322.52	35.39	10.114		
6,800.00	6,798.64	6,807.03	6,795.91	23.51	22.26	-45.38	276.34	253.93	358.29	322.38	35.91	9.977		
6,900.00	6,898.64	6,908.34	6,897.14	23.86	22.61	-36.57	279.48	251.32	358.35	321.92	36.43	9.837		
7,000.00	6,998.64	7,009.82	6,998.61	24.20	22.90	-61.14	280.56	250.43	358.19	321.29	36.90	9.706		
7,071.35	7,069.99	7,081.20	7,069.99	24.45	22.93	-90.00	280.56	250.43	358.11	320.91	37.20	9.625		
7,100.00	7,098.63	7,109.85	7,098.63	24.55	22.94	-101.56	280.56	250.43	358.13	320.80	37.33	9.594		
7,200.00	7,198.63	7,209.84	7,198.63	24.89	22.99	-106.01	280.56	250.43	358.30	320.54	37.77	9.487		
7,300.00	7,298.63	7,309.84	7,298.63	25.23	23.04	-100.82	280.56	250.43	358.47	320.26	38.21	9.382		
7,400.00	7,398.63	7,409.84	7,398.63	25.58	23.09	-109.06	280.56	250.43	358.63	319.98	38.65	9.279		
7,500.00	7,498.62	7,509.84	7,498.62	25.92	23.14	-117.91	280.56	250.43	358.90	319.81	39.09	9.182		
7,600.00	7,598.62	7,609.83	7,598.62	26.27	23.18	-124.54	280.56	250.43	359.49	319.95	39.53	9.093		
7,700.00	7,698.61	7,709.82	7,698.61	26.62	23.23	-123.10	280.56	250.43	360.35	320.37	39.98	9.013		
7,800.00	7,798.59	7,809.81	7,798.59	26.96	23.28	-123.37	280.56	250.43	361.21	320.78	40.43	8.933		
7,900.00	7,898.58	7,909.79	7,898.58	27.31	23.33	-110.96	280.56	250.43	362.03	321.14	40.89	8.855		
8,000.00	7,998.58	8,009.79	7,998.58	27.66	23.38	5.93	280.56	250.43	361.83	320.51	41.33	8.756		
8,100.00	8,098.58	8,109.79	8,098.58	28.01	23.43	27.11	280.56	250.43	361.17	319.41	41.76	8.649		
8,200.00	8,198.58	8,209.79	8,198.58	28.36	23.48	30.56	280.56	250.43	360.63	318.44	42.19	8.548		
8,283.31	8,281.88	8,293.09	8,281.88	28.65	23.53	91.99	280.56	250.43	360.48	317.93	42.55	8.472		
8,300.00	8,298.58	8,309.79	8,298.58	28.71	23.53	110.44	280.56	250.43	360.48	317.86	42.62	8.457		
8,400.00	8,398.57	8,409.79	8,398.57	29.06	23.59	162.25	280.56	250.43	360.75	317.70	43.05	8.379		
8,500.00	8,498.57	8,509.79	8,498.57	29.40	23.64	178.30	280.56	250.43	361.36	317.87	43.49	8.310		
8,600.00	8,598.57	8,609.78	8,598.57	29.75	23.69	174.98	280.56	250.43	362.26	318.34	43.92	8.248		
8,700.00	8,698.56	8,709.77	8,698.56	30.10	23.74	172.02	280.56	250.43	363.39	319.03	44.35	8.193		
8,800.00	8,798.55	8,809.77	8,798.55	30.45	23.79	164.61	280.56	250.43	364.73	319.95	44.78	8.145		
8,900.00	8,898.54	8,909.76	8,898.54	30.80	23.84	168.50	280.56	250.43	366.06	320.85	45.21	8.097		
9,000.00	8,998.54	9,009.75	8,998.54	31.15	23.89	173.84	280.56	250.43	367.21	321.57	45.64	8.045		
9,100.00	9,098.53	9,109.74	9,098.53	31.49	23.94	-176.88	280.56	250.43	368.17	322.10	46.08	7.990		
9,200.00	9,198.53	9,209.74	9,198.53	31.84	24.00	-167.06	280.56	250.43	369.29	322.78	46.51	7.939		
9,300.00	9,298.52	9,309.73	9,298.52	32.19	24.05	-149.89	280.56	250.43	370.29	323.34	46.95	7.887		
9,400.00	9,398.52	9,409.73	9,398.52	32.54	24.10	-124.68	280.56	250.43	370.75	323.36	47.39	7.823		
9,500.00	9,498.51	9,509.72	9,498.51	32.89	24.15	-124.34	280.56	250.43	371.43	323.59	47.83	7.765		
9,600.00	9,598.51	9,609.72	9,598.51	33.23	24.21	-14.36	280.56	250.43	371.41	323.14	48.27	7.694		
9,700.00	9,698.51	9,709.72	9,698.51	33.58	24.26	24.26	280.56	250.43	370.58	321.87	48.71	7.609		
9,800.00	9,798.50	9,809.71	9,798.50	33.93	24.31	42.78	280.56	250.43	369.53	320.40	49.13	7.521		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 224H - OH - Plan 4 11-24-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.00	9,898.48	9,909.70	9,898.48	34.28	24.37	39.59	280.56	250.43	368.35	318.80	49.55	7.434	
10,000.00	9,998.47	10,009.69	9,998.47	34.63	24.42	-13.06	280.56	250.43	367.00	317.02	49.98	7.343	
10,100.00	10,098.45	10,109.67	10,098.45	34.98	24.47	-54.67	280.56	250.43	365.51	315.08	50.43	7.248	
10,200.00	10,198.42	10,209.64	10,198.42	35.33	24.53	-47.27	280.56	250.43	364.21	313.33	50.88	7.158	
10,300.00	10,298.42	10,309.63	10,298.42	35.68	24.58	-26.91	280.56	250.43	363.56	312.24	51.33	7.084	
10,400.00	10,398.42	10,409.63	10,398.42	36.03	24.63	66.53	280.56	250.43	363.27	311.51	51.76	7.018	
10,411.06	10,409.48	10,420.70	10,409.48	36.07	24.64	90.00	280.56	250.43	363.26	311.45	51.81	7.012 ES	
10,500.00	10,498.42	10,509.63	10,498.42	36.38	24.69	163.88	280.56	250.43	363.69	311.50	52.19	6.969	
10,600.00	10,598.41	10,609.63	10,598.41	36.72	24.74	175.65	280.56	250.43	364.82	312.20	52.62	6.933	
10,700.00	10,698.40	10,694.49	10,683.26	37.07	24.83	-161.52	281.48	250.27	367.08	314.03	53.05	6.920	
10,800.00	10,798.39	10,759.59	10,747.75	37.42	25.07	-177.19	289.85	248.90	377.40	323.87	53.54	7.049	
10,900.00	10,898.37	10,825.00	10,810.79	37.77	25.34	179.40	306.90	246.09	397.55	343.48	54.07	7.353	
11,000.00	10,998.36	10,875.00	10,857.04	38.12	25.56	134.16	325.57	243.01	426.79	372.43	54.36	7.851	
11,100.00	11,098.34	10,925.00	10,901.07	38.47	25.78	108.35	348.92	239.17	464.69	410.13	54.57	8.516	
11,200.00	11,198.33	10,975.00	10,942.38	38.82	26.00	115.03	376.67	234.60	511.30	456.55	54.75	9.339	
11,300.00	11,298.32	11,013.37	10,971.95	39.17	26.16	94.75	400.77	230.63	565.69	511.04	54.66	10.350	
11,400.00	11,398.31	11,050.00	10,998.27	39.52	26.31	71.49	425.90	226.50	626.48	571.94	54.54	11.487	
11,500.00	11,498.30	11,075.00	11,015.08	39.87	26.40	67.13	444.16	223.49	692.83	638.65	54.18	12.787	
11,600.00	11,598.26	11,100.00	11,030.89	40.22	26.50	69.60	463.26	220.34	763.87	709.97	53.91	14.170	
11,700.00	11,698.13	11,125.00	11,045.67	40.57	26.58	29.71	483.15	217.07	837.63	783.94	53.70	15.600	
11,800.00	11,797.26	11,150.00	11,059.38	40.92	26.67	32.59	503.78	213.67	909.60	856.13	53.47	17.013	
11,900.00	11,894.04	11,175.00	11,071.98	41.25	26.75	35.14	525.09	210.20	979.90	926.71	53.19	18.423	
12,000.00	11,984.36	11,200.00	11,083.47	41.58	26.82	25.77	547.04	206.95	1,042.10	989.27	52.83	19.726	
12,100.00	12,063.58	11,225.00	11,093.84	41.88	26.89	19.76	569.60	204.00	1,090.26	1,037.87	52.38	20.813	
12,200.00	12,127.93	11,250.00	11,103.05	42.16	26.95	14.54	592.69	201.36	1,122.51	1,070.62	51.89	21.633	
12,300.00	12,174.23	11,285.77	11,114.17	42.41	27.03	9.21	626.52	198.13	1,136.07	1,084.58	51.49	22.063	
12,400.00	12,207.18	11,313.40	11,121.07	42.64	27.08	5.67	653.19	196.10	1,138.25	1,087.24	51.01	22.312	
12,500.00	12,226.06	11,340.56	11,126.39	42.85	27.13	4.90	679.77	194.48	1,131.73	1,081.14	50.60	22.367	
12,600.00	12,231.93	11,375.00	11,131.02	43.07	27.19	4.12	713.86	193.01	1,118.70	1,068.36	50.34	22.223	
12,700.00	12,232.01	11,400.00	11,132.89	43.31	27.22	3.82	738.78	192.34	1,106.38	1,056.23	50.14	22.065	
12,800.00	12,232.36	11,425.37	11,133.50	46.60	27.25	3.82	764.13	192.01	1,101.46	1,051.21	50.26	21.917	
12,900.00	12,231.44	11,522.89	11,133.53	46.64	27.39	2.72	861.66	191.37	1,099.22	1,048.79	50.43	21.798	
13,000.00	12,231.18	11,620.69	11,133.56	46.69	27.59	1.67	959.46	190.72	1,098.12	1,047.48	50.64	21.686	
13,100.00	12,230.71	11,719.11	11,133.58	46.74	27.84	0.77	1,057.87	190.07	1,097.23	1,046.31	50.92	21.549	
13,200.00	12,230.03	11,818.05	11,133.61	46.79	28.17	0.03	1,156.81	189.42	1,096.42	1,045.15	51.26	21.387	
13,300.00	12,229.13	11,917.40	11,133.64	46.86	28.58	-0.56	1,256.15	188.76	1,095.54	1,043.88	51.66	21.205	
13,400.00	12,228.02	12,017.06	11,133.67	46.94	29.09	-0.99	1,355.81	188.10	1,094.52	1,042.41	52.11	21.004	
13,500.00	12,226.71	12,116.92	11,133.70	47.07	29.71	-1.25	1,455.68	187.44	1,093.27	1,040.67	52.59	20.787	
13,600.00	12,225.18	12,216.89	11,133.73	47.30	30.42	-1.34	1,555.64	186.78	1,091.75	1,038.64	53.11	20.557	
13,700.00	12,223.54	12,316.88	11,133.76	47.68	31.22	-1.34	1,655.63	186.12	1,090.08	1,036.43	53.66	20.316	
13,800.00	12,221.91	12,416.86	11,133.79	48.18	32.10	-1.34	1,755.61	185.46	1,088.42	1,034.18	54.24	20.066	
13,900.00	12,221.16	12,516.86	11,133.81	48.74	33.06	-1.34	1,855.60	184.80	1,087.65	1,032.78	54.87	19.823	
14,000.00	12,220.99	12,616.86	11,133.84	49.34	34.08	-1.34	1,955.60	184.14	1,087.44	1,031.91	55.53	19.582	
14,100.00	12,220.82	12,716.86	11,133.87	49.99	35.14	-1.34	2,055.60	183.48	1,087.24	1,031.01	56.23	19.335	
14,200.00	12,220.64	12,816.86	11,133.90	50.66	36.25	-1.34	2,155.60	182.82	1,087.04	1,030.07	56.97	19.082	
14,300.00	12,220.47	12,916.86	11,133.93	51.36	37.39	-1.34	2,255.59	182.16	1,086.83	1,029.10	57.73	18.826	
14,400.00	12,220.29	13,016.86	11,133.96	52.08	38.56	-1.34	2,355.59	181.50	1,086.63	1,028.10	58.53	18.566	
14,500.00	12,220.12	13,116.86	11,133.99	52.83	39.76	-1.34	2,455.59	180.83	1,086.43	1,027.07	59.36	18.303	
14,600.00	12,219.94	13,216.86	11,134.02	53.60	40.97	-1.34	2,555.59	180.17	1,086.22	1,026.01	60.22	18.039	
14,700.00	12,219.77	13,316.86	11,134.05	54.40	42.21	-1.34	2,655.58	179.51	1,086.02	1,024.92	61.10	17.774	
14,800.00	12,219.59	13,416.86	11,134.07	55.21	43.46	-1.34	2,755.58	178.85	1,085.82	1,023.80	62.01	17.509	
14,900.00	12,219.42	13,516.86	11,134.10	56.04	44.72	-1.34	2,855.58	178.19	1,085.61	1,022.66	62.95	17.245	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 224H - OH - Plan 4 11-24-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,000.00	12,219.24	13,616.86	11,134.13	56.89	46.00	-1.34	2,955.58	177.53	1,085.41	1,021.50	63.91	16.982	
15,100.00	12,219.07	13,716.86	11,134.16	57.76	47.29	-1.34	3,055.57	176.87	1,085.21	1,020.31	64.90	16.721	
15,200.00	12,218.90	13,816.86	11,134.19	58.64	48.59	-1.34	3,155.57	176.21	1,085.00	1,019.09	65.91	16.462	
15,300.00	12,218.72	13,916.86	11,134.22	59.54	49.90	-1.34	3,255.57	175.55	1,084.80	1,017.86	66.94	16.206	
15,400.00	12,218.55	14,016.86	11,134.25	60.46	51.21	-1.34	3,355.57	174.89	1,084.60	1,016.61	67.99	15.953	
15,500.00	12,218.37	14,116.86	11,134.28	61.39	52.53	-1.34	3,455.57	174.23	1,084.39	1,015.33	69.06	15.703	
15,600.00	12,218.20	14,216.86	11,134.31	62.33	53.86	-1.34	3,555.56	173.57	1,084.19	1,014.04	70.15	15.456	
15,700.00	12,218.02	14,316.86	11,134.34	63.29	55.20	-1.34	3,655.56	172.91	1,083.99	1,012.73	71.25	15.213	
15,800.00	12,217.85	14,416.86	11,134.36	64.25	56.54	-1.34	3,755.56	172.24	1,083.78	1,011.41	72.38	14.974	
15,900.00	12,217.67	14,516.86	11,134.39	65.24	57.89	-1.34	3,855.56	171.58	1,083.58	1,010.06	73.52	14.739	
16,000.00	12,217.50	14,616.86	11,134.42	66.23	59.24	-1.34	3,955.55	170.92	1,083.38	1,008.70	74.67	14.508	
16,100.00	12,217.33	14,716.86	11,134.45	67.23	60.59	-1.34	4,055.55	170.26	1,083.17	1,007.33	75.84	14.282	
16,200.00	12,217.15	14,816.86	11,134.48	68.24	61.95	-1.34	4,155.55	169.60	1,082.97	1,005.94	77.03	14.060	
16,300.00	12,216.98	14,916.86	11,134.51	69.27	63.31	-1.34	4,255.55	168.94	1,082.77	1,004.54	78.22	13.842	
16,400.00	12,216.80	15,016.86	11,134.54	70.30	64.68	-1.34	4,355.54	168.28	1,082.56	1,003.13	79.44	13.628	
16,500.00	12,216.63	15,116.86	11,134.57	71.34	66.05	-1.34	4,455.54	167.62	1,082.36	1,001.70	80.66	13.419	
16,600.00	12,216.45	15,216.86	11,134.60	72.39	67.42	-1.34	4,555.54	166.96	1,082.15	1,000.26	81.89	13.214	
16,700.00	12,216.28	15,316.86	11,134.62	73.45	68.79	-1.34	4,655.54	166.30	1,081.95	998.81	83.14	13.014	
16,800.00	12,216.10	15,416.86	11,134.65	74.52	70.17	-1.34	4,755.53	165.64	1,081.75	997.35	84.40	12.817	
16,900.00	12,215.93	15,516.86	11,134.68	75.60	71.55	-1.34	4,855.53	164.98	1,081.54	995.88	85.67	12.625	
17,000.00	12,215.75	15,616.86	11,134.71	76.68	72.93	-1.34	4,955.53	164.32	1,081.34	994.40	86.94	12.437	
17,100.00	12,215.58	15,716.86	11,134.74	77.77	74.32	-1.34	5,055.53	163.65	1,081.14	992.91	88.23	12.254	
17,200.00	12,215.41	15,816.86	11,134.77	78.86	75.71	-1.34	5,155.52	162.99	1,080.93	991.41	89.53	12.074	
17,300.00	12,215.23	15,916.86	11,134.80	79.97	77.09	-1.35	5,255.52	162.33	1,080.73	989.90	90.83	11.898	
17,400.00	12,215.06	16,016.86	11,134.83	81.07	78.48	-1.35	5,355.52	161.67	1,080.53	988.38	92.14	11.727	
17,500.00	12,214.88	16,116.86	11,134.86	82.19	79.88	-1.35	5,455.52	161.01	1,080.32	986.86	93.46	11.559	
17,600.00	12,214.71	16,216.86	11,134.89	83.31	81.27	-1.35	5,555.51	160.35	1,080.12	985.33	94.79	11.395	
17,700.00	12,214.53	16,316.86	11,134.91	84.44	82.66	-1.35	5,655.51	159.69	1,079.92	983.79	96.13	11.234	
17,800.00	12,214.36	16,416.86	11,134.94	85.57	84.06	-1.35	5,755.51	159.03	1,079.71	982.24	97.47	11.077	
17,900.00	12,214.18	16,516.86	11,134.97	86.70	85.46	-1.35	5,855.51	158.37	1,079.51	980.69	98.82	10.924	
18,000.00	12,214.01	16,616.86	11,135.00	87.84	86.86	-1.35	5,955.51	157.71	1,079.31	979.13	100.18	10.774	
18,100.00	12,213.83	16,716.86	11,135.03	88.99	88.26	-1.35	6,055.50	157.05	1,079.10	977.57	101.54	10.628	
18,200.00	12,213.66	16,816.86	11,135.06	90.14	89.66	-1.35	6,155.50	156.39	1,078.90	975.99	102.91	10.484	
18,300.00	12,213.49	16,916.86	11,135.09	91.30	91.06	-1.35	6,255.50	155.72	1,078.70	974.42	104.28	10.344	
18,400.00	12,213.31	17,016.86	11,135.12	92.45	92.47	-1.35	6,355.50	155.06	1,078.49	972.83	105.66	10.207	
18,500.00	12,213.14	17,116.86	11,135.15	93.62	93.87	-1.35	6,455.49	154.40	1,078.29	971.25	107.04	10.073	
18,600.00	12,212.96	17,216.86	11,135.17	94.78	95.28	-1.35	6,555.49	153.74	1,078.09	969.65	108.43	9.942	
18,700.00	12,212.79	17,316.86	11,135.20	95.95	96.69	-1.35	6,655.49	153.08	1,077.88	968.05	109.83	9.814	
18,800.00	12,212.61	17,416.86	11,135.23	97.13	98.09	-1.35	6,755.49	152.42	1,077.68	966.45	111.23	9.689	
18,900.00	12,212.44	17,516.86	11,135.26	98.31	99.50	-1.35	6,855.48	151.76	1,077.47	964.85	112.63	9.567	
19,000.00	12,212.26	17,616.86	11,135.29	99.49	100.91	-1.35	6,955.48	151.10	1,077.27	963.23	114.04	9.447	
19,100.00	12,212.09	17,716.86	11,135.32	100.67	102.32	-1.35	7,055.48	150.44	1,077.07	961.62	115.45	9.329	
19,200.00	12,211.91	17,816.86	11,135.35	101.86	103.73	-1.35	7,155.48	149.78	1,076.86	960.00	116.87	9.215	
19,300.00	12,211.74	17,916.86	11,135.38	103.05	105.14	-1.35	7,255.47	149.12	1,076.66	958.37	118.29	9.102	
19,400.00	12,211.57	18,016.86	11,135.41	104.24	106.56	-1.35	7,355.47	148.46	1,076.46	956.75	119.71	8.992	
19,500.00	12,211.39	18,116.86	11,135.43	105.44	107.97	-1.35	7,455.47	147.80	1,076.25	955.12	121.14	8.885	
19,600.00	12,211.22	18,216.86	11,135.46	106.64	109.38	-1.35	7,555.47	147.13	1,076.05	953.48	122.57	8.779	
19,700.00	12,211.04	18,316.86	11,135.49	107.84	110.80	-1.35	7,655.46	146.47	1,075.85	951.84	124.00	8.676	
19,800.00	12,210.87	18,416.86	11,135.52	109.04	112.21	-1.35	7,755.46	145.81	1,075.64	950.20	125.44	8.575	
19,900.00	12,210.69	18,516.86	11,135.55	110.25	113.63	-1.35	7,855.46	145.15	1,075.44	948.56	126.88	8.476	
20,000.00	12,210.52	18,616.86	11,135.58	111.46	115.04	-1.35	7,955.46	144.49	1,075.24	946.91	128.33	8.379	
20,100.00	12,210.34	18,716.86	11,135.61	112.67	116.46	-1.35	8,055.46	143.83	1,075.03	945.26	129.77	8.284	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 224H - OH - Plan 4 11-24-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,200.00	12,210.17	18,816.85	11,135.64	113.88	117.88	-1.35	8,155.45	143.17	1,074.83	943.61	131.22	8.191	
20,300.00	12,209.99	18,916.85	11,135.67	115.10	119.30	-1.35	8,255.45	142.51	1,074.63	941.95	132.68	8.100	
20,400.00	12,209.82	19,016.85	11,135.70	116.31	120.71	-1.35	8,355.45	141.85	1,074.42	940.29	134.13	8.010	
20,500.00	12,209.65	19,116.85	11,135.72	117.53	122.13	-1.35	8,455.45	141.19	1,074.22	938.63	135.59	7.923	
20,600.00	12,209.47	19,216.85	11,135.75	118.75	123.55	-1.35	8,555.44	140.53	1,074.02	936.97	137.05	7.837	
20,700.00	12,209.30	19,316.85	11,135.78	119.98	124.97	-1.35	8,655.44	139.87	1,073.81	935.30	138.51	7.753	
20,800.00	12,209.12	19,416.85	11,135.81	121.20	126.39	-1.35	8,755.44	139.20	1,073.61	933.63	139.98	7.670	
20,900.00	12,208.95	19,516.85	11,135.84	122.43	127.81	-1.35	8,855.44	138.54	1,073.41	931.96	141.44	7.589	
21,000.00	12,208.77	19,616.85	11,135.87	123.66	129.23	-1.35	8,955.43	137.88	1,073.20	930.29	142.91	7.509	
21,100.00	12,208.60	19,716.84	11,135.90	124.89	130.65	-1.35	9,055.43	137.22	1,073.00	928.61	144.38	7.432	
21,200.00	12,208.42	19,816.84	11,135.93	126.12	132.07	-1.35	9,155.43	136.56	1,072.79	926.94	145.86	7.355	
21,300.00	12,208.25	19,916.84	11,135.96	127.35	133.50	-1.35	9,255.43	135.90	1,072.59	925.26	147.33	7.280	
21,400.00	12,208.07	20,016.84	11,135.98	128.59	134.92	-1.35	9,355.42	135.24	1,072.39	923.58	148.81	7.206	
21,500.00	12,207.90	20,116.84	11,136.01	129.82	136.34	-1.35	9,455.42	134.58	1,072.18	921.89	150.29	7.134	
21,600.00	12,207.73	20,216.84	11,136.04	131.06	137.76	-1.35	9,555.42	133.92	1,071.98	920.21	151.77	7.063	
21,700.00	12,207.55	20,316.84	11,136.07	132.30	139.19	-1.35	9,655.42	133.26	1,071.78	918.52	153.26	6.993	
21,800.00	12,207.38	20,416.84	11,136.10	133.54	140.61	-1.35	9,755.41	132.60	1,071.57	916.83	154.74	6.925	
21,900.00	12,207.20	20,516.84	11,136.13	134.78	142.03	-1.35	9,855.41	131.94	1,071.37	915.14	156.23	6.858	
22,000.00	12,207.03	20,616.84	11,136.16	136.03	143.46	-1.35	9,955.41	131.28	1,071.17	913.45	157.72	6.792	
22,100.00	12,206.85	20,716.84	11,136.19	137.27	144.88	-1.35	10,055.41	130.61	1,070.96	911.76	159.21	6.727	
22,200.00	12,206.68	20,816.84	11,136.22	138.52	146.30	-1.35	10,155.40	129.95	1,070.76	910.06	160.70	6.663	
22,300.00	12,206.50	20,916.84	11,136.25	139.76	147.73	-1.35	10,255.40	129.29	1,070.56	908.37	162.19	6.601	
22,400.00	12,206.33	21,016.84	11,136.27	141.01	149.15	-1.35	10,355.40	128.63	1,070.35	906.67	163.68	6.539	
22,500.00	12,206.16	21,116.84	11,136.30	142.26	150.58	-1.35	10,455.40	127.97	1,070.15	904.97	165.18	6.479	
22,600.00	12,205.98	21,216.84	11,136.33	143.51	152.00	-1.35	10,555.40	127.31	1,069.95	903.27	166.68	6.419	
22,700.00	12,205.81	21,316.84	11,136.36	144.76	153.43	-1.35	10,655.39	126.65	1,069.74	901.57	168.18	6.361	
22,800.00	12,205.63	21,416.84	11,136.39	146.02	154.86	-1.35	10,755.39	125.99	1,069.54	899.86	169.67	6.303	
22,900.00	12,205.46	21,516.84	11,136.42	147.27	156.28	-1.35	10,855.39	125.33	1,069.34	898.16	171.18	6.247	
23,000.00	12,205.28	21,616.84	11,136.45	148.52	157.71	-1.35	10,955.39	124.67	1,069.13	896.45	172.68	6.191	
23,100.00	12,205.11	21,716.84	11,136.48	149.78	159.13	-1.35	11,055.38	124.01	1,068.93	894.75	174.18	6.137	
23,200.00	12,204.93	21,816.84	11,136.51	151.04	160.56	-1.35	11,155.38	123.35	1,068.73	893.04	175.69	6.083	
23,251.42	12,204.84	21,867.88	11,136.52	151.68	161.29	-1.35	11,206.42	123.01	1,068.62	892.17	176.45	6.056 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 323H - OH - Plan 4 01-05-21												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toelface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	2.00	1.00	1.00	-90.53	-0.47	-50.14	50.18				
100.00	100.00	98.00	100.00	1.01	1.08	-105.06	-0.47	-50.14	50.29	48.20	2.09	24.068	
200.00	199.98	197.98	199.98	1.08	1.59	-79.53	-0.47	-50.14	50.49	47.82	2.67	18.917	
300.00	299.96	297.96	299.96	1.26	2.00	-66.83	-0.47	-50.14	49.79	46.52	3.27	15.248	
367.87	367.83	365.83	367.83	1.43	2.23	-97.61	-0.47	-50.14	49.59	45.93	3.66	13.553	
400.00	399.95	397.95	399.95	1.51	2.35	-113.26	-0.47	-50.14	49.57	45.71	3.85	12.859 CC, ES	
500.00	499.92	497.92	499.92	1.79	2.65	-155.36	-0.47	-50.14	51.13	46.69	4.44	11.520	
600.00	599.89	597.89	599.89	2.09	2.92	-162.59	-0.47	-50.14	53.63	48.61	5.01	10.696	
700.00	699.85	697.85	699.85	2.41	3.17	-168.18	-0.47	-50.14	56.22	50.63	5.58	10.071	
800.00	799.82	797.82	799.82	2.74	3.41	-173.44	-0.47	-50.14	58.89	52.75	6.14	9.587	
900.00	899.80	897.80	899.80	3.07	3.63	166.79	-0.47	-50.14	60.43	53.74	6.70	9.026	
1,000.00	999.80	997.80	999.80	3.40	3.84	156.54	-0.47	-50.14	61.28	54.04	7.24	8.465	
1,100.00	1,099.80	1,097.80	1,099.80	3.74	4.04	164.53	-0.47	-50.14	61.89	54.11	7.78	7.956	
1,200.00	1,199.79	1,197.79	1,199.79	4.08	4.24	-159.74	-0.47	-50.14	62.39	54.07	8.32	7.502	
1,300.00	1,299.79	1,297.79	1,299.79	4.43	4.42	-110.31	-0.47	-50.14	62.79	53.94	8.85	7.095	
1,400.00	1,399.79	1,397.03	1,399.03	4.77	4.51	-74.30	-0.47	-50.43	63.05	53.77	9.28	6.795	
1,500.00	1,499.78	1,495.40	1,497.36	5.11	4.81	-58.38	-0.47	-52.91	64.98	55.07	9.91	6.558	
1,600.00	1,599.77	1,593.64	1,595.48	5.45	5.25	-42.60	-0.47	-57.91	68.81	58.15	10.66	6.456	
1,700.00	1,699.75	1,691.66	1,693.20	5.79	5.68	-29.02	-0.47	-65.41	74.87	63.47	11.40	6.568	
1,800.00	1,799.74	1,789.29	1,790.32	6.13	6.10	-31.18	-0.47	-75.37	83.57	71.43	12.14	6.885	
1,900.00	1,899.73	1,886.42	1,886.66	6.47	6.52	-29.92	-0.47	-87.74	94.79	81.92	12.88	7.362	
2,000.00	1,999.72	1,983.25	1,982.35	6.81	6.82	-7.82	-0.47	-102.49	108.61	95.12	13.49	8.050	
2,100.00	2,099.71	2,082.08	2,079.89	7.15	7.06	24.09	-0.47	-118.48	123.61	109.54	14.07	8.783	
2,200.00	2,199.71	2,180.92	2,177.42	7.49	7.33	4.60	-0.47	-134.47	138.66	123.97	14.69	9.437	
2,300.00	2,299.70	2,279.79	2,274.99	7.83	7.62	0.95	-0.47	-150.46	153.54	138.20	15.33	10.012	
2,400.00	2,399.69	2,378.66	2,372.56	8.18	7.93	13.77	-0.47	-166.45	168.44	152.45	15.99	10.534	
2,500.00	2,499.69	2,477.48	2,470.07	8.52	8.25	27.74	-0.47	-182.44	183.68	167.02	16.66	11.026	
2,600.00	2,599.68	2,576.27	2,567.57	8.87	8.58	18.96	-0.47	-198.42	199.06	181.72	17.34	11.481	
2,700.00	2,699.68	2,675.06	2,665.06	9.21	8.92	-0.51	-0.47	-214.40	214.55	196.52	18.03	11.900	
2,800.00	2,799.68	2,773.83	2,762.53	9.56	9.26	-33.85	-0.48	-230.37	230.15	211.42	18.73	12.288	
2,900.00	2,899.68	2,872.57	2,859.97	9.92	9.62	-65.69	-0.48	-246.34	245.94	226.50	19.44	12.651	
3,000.00	2,999.68	2,971.29	2,957.38	10.27	9.98	-74.31	-0.48	-262.31	261.93	241.78	20.16	12.994	
3,100.00	3,099.67	3,070.02	3,054.82	10.62	10.35	-68.26	-0.48	-278.28	277.78	256.90	20.88	13.302	
3,200.00	3,199.67	3,168.77	3,152.26	10.98	10.73	-71.41	-0.48	-294.26	293.55	271.94	21.61	13.582	
3,300.00	3,299.66	3,267.49	3,249.68	11.33	11.11	-86.63	-0.48	-310.22	309.53	287.18	22.35	13.850	
3,400.00	3,399.66	3,366.16	3,347.06	11.68	11.49	-99.46	-0.48	-326.19	325.75	302.67	23.09	14.110	
3,500.00	3,499.65	3,464.82	3,444.41	12.04	11.88	-102.35	-0.48	-342.14	342.08	318.25	23.83	14.355	
3,600.00	3,599.65	3,563.52	3,541.81	12.39	12.27	-57.17	-0.48	-358.11	358.14	333.57	24.58	14.572	
3,700.00	3,699.65	3,662.24	3,639.24	12.74	12.67	-74.35	-0.48	-374.08	374.06	348.73	25.33	14.768	
3,800.00	3,799.65	3,760.97	3,736.66	13.10	13.06	-58.08	-0.48	-390.05	389.97	363.89	26.08	14.951	
3,900.00	3,899.65	3,859.69	3,834.09	13.45	13.47	58.78	-0.48	-406.02	405.87	379.03	26.84	15.124	
4,000.00	3,999.64	3,958.46	3,931.55	13.79	13.87	30.93	-0.49	-421.99	421.47	393.88	27.59	15.278	
4,100.00	4,099.64	4,057.28	4,029.07	14.13	14.28	28.72	-0.49	-437.98	436.75	408.41	28.34	15.410	
4,200.00	4,199.64	4,156.04	4,126.54	14.48	14.68	95.51	-0.49	-453.95	452.35	423.25	29.10	15.544	
4,300.00	4,299.62	4,254.53	4,223.73	14.82	15.09	144.40	-0.49	-469.88	469.58	439.73	29.86	15.728	
4,400.00	4,399.56	4,352.66	4,320.56	15.16	15.50	150.55	-0.49	-485.76	488.69	458.08	30.61	15.966	
4,500.00	4,499.52	4,450.92	4,417.53	15.50	15.92	155.27	-0.49	-501.65	507.17	475.81	31.36	16.171	
4,600.00	4,599.48	4,549.13	4,514.44	15.84	16.33	152.39	-0.49	-517.54	525.94	493.82	32.12	16.374	
4,700.00	4,699.36	4,646.99	4,611.01	16.19	16.74	149.93	-0.49	-533.37	546.31	513.44	32.88	16.617	
4,800.00	4,799.16	4,744.57	4,707.31	16.53	17.16	151.14	-0.49	-549.15	567.89	534.25	33.63	16.884	
4,900.00	4,899.01	4,842.34	4,803.79	16.87	17.57	153.97	-0.49	-564.97	588.72	554.32	34.39	17.117	
5,000.00	4,998.96	4,940.48	4,900.64	17.22	17.99	150.47	-0.49	-580.84	607.85	572.70	35.16	17.290	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
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Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 323H - OH - Plan 4 01-05-21												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis					Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,098.90	5,038.63	4,997.49	17.56	18.41	151.66	-0.49	-596.72	626.92	591.00	35.92	17.452	
5,200.00	5,198.84	5,136.76	5,094.34	17.91	18.83	148.88	-0.49	-612.59	646.03	609.34	36.69	17.609	
5,300.00	5,298.82	5,235.10	5,191.39	18.26	19.25	-176.51	-0.50	-628.50	664.14	626.68	37.46	17.730	
5,400.00	5,398.81	5,333.83	5,288.81	18.60	19.68	-48.60	-0.50	-644.47	680.00	641.76	38.23	17.786	
5,500.00	5,498.79	5,432.70	5,386.38	18.96	20.10	-46.19	-0.50	-660.46	694.97	655.96	39.01	17.815	
5,600.00	5,598.78	5,531.56	5,483.94	19.31	20.53	-38.63	-0.50	-676.45	709.96	670.16	39.79	17.842	
5,700.00	5,698.77	5,630.42	5,581.50	19.66	20.96	-40.24	-0.50	-692.44	725.00	684.42	40.57	17.869	
5,800.00	5,798.76	5,729.24	5,679.02	20.01	21.38	-48.29	-0.50	-708.43	740.31	698.95	41.35	17.901	
5,900.00	5,898.75	5,828.04	5,776.52	20.36	21.81	-50.09	-0.50	-724.41	755.71	713.58	42.14	17.935	
6,000.00	5,998.74	5,926.86	5,874.03	20.72	22.24	-51.25	-0.50	-740.39	771.03	728.11	42.92	17.964	
6,100.00	6,098.73	6,025.69	5,971.56	21.07	22.67	-51.27	-0.50	-756.38	786.25	742.54	43.71	17.990	
6,200.00	6,198.72	6,124.52	6,069.09	21.42	23.10	-51.91	-0.50	-772.37	801.47	756.98	44.49	18.014	
6,300.00	6,298.70	6,223.37	6,166.63	21.77	23.53	-50.35	-0.50	-788.36	816.56	771.29	45.28	18.035	
6,400.00	6,398.69	6,322.25	6,264.22	22.13	23.96	1.44	-0.50	-804.35	831.42	785.36	46.06	18.050	
6,500.00	6,498.67	6,421.21	6,361.87	22.47	24.40	30.06	-0.51	-820.36	845.80	798.96	46.85	18.055	
6,600.00	6,598.65	6,520.12	6,459.48	22.82	24.83	67.73	-0.51	-836.36	860.41	812.78	47.63	18.065	
6,700.00	6,698.64	6,618.74	6,556.80	23.16	25.26	155.53	-0.51	-852.31	876.94	828.54	48.41	18.116	
6,800.00	6,798.64	6,717.29	6,654.05	23.51	25.69	-178.16	-0.51	-868.25	893.95	844.76	49.19	18.175	
6,900.00	6,898.64	6,815.85	6,751.32	23.86	26.13	-168.61	-0.51	-884.19	910.81	860.84	49.97	18.229	
7,000.00	6,998.64	6,914.45	6,848.61	24.20	26.56	167.09	-0.51	-900.14	927.52	876.77	50.75	18.277	
7,100.00	7,098.63	7,013.07	6,945.94	24.55	26.99	126.74	-0.51	-916.10	944.04	892.51	51.53	18.321	
7,200.00	7,198.63	7,111.69	7,043.26	24.89	27.43	122.40	-0.51	-932.05	960.56	908.26	52.31	18.363	
7,300.00	7,298.63	7,210.30	7,140.57	25.23	27.86	127.76	-0.51	-948.00	977.18	924.09	53.09	18.406	
7,400.00	7,398.63	7,308.92	7,237.90	25.58	28.30	119.67	-0.51	-963.95	993.71	939.83	53.87	18.446	
7,500.00	7,498.62	7,407.55	7,335.23	25.92	28.73	110.94	-0.51	-979.91	1,010.19	955.54	54.65	18.483	
7,600.00	7,598.62	7,506.18	7,432.56	26.27	29.17	104.48	-0.51	-995.86	1,026.65	971.21	55.44	18.519	
7,700.00	7,698.61	7,604.78	7,529.86	26.62	29.60	106.18	-0.51	-1,011.81	1,043.24	987.02	56.22	18.556	
7,800.00	7,798.59	7,703.38	7,627.16	26.96	30.04	106.21	-0.52	-1,027.76	1,059.86	1,002.86	57.01	18.592	
7,900.00	7,898.58	7,801.97	7,724.45	27.31	30.47	118.98	-0.52	-1,043.71	1,076.50	1,018.71	57.79	18.627	
8,000.00	7,998.58	7,900.59	7,821.77	27.66	30.91	-123.94	-0.52	-1,059.66	1,093.08	1,034.50	58.58	18.660	
8,100.00	8,098.58	7,999.24	7,919.12	28.01	31.35	-102.81	-0.52	-1,075.61	1,109.45	1,050.09	59.37	18.688	
8,200.00	8,198.58	8,097.90	8,016.48	28.36	31.78	-99.47	-0.52	-1,091.57	1,125.75	1,065.60	60.15	18.714	
8,300.00	8,298.58	8,196.59	8,113.87	28.71	32.22	-19.66	-0.52	-1,107.54	1,141.88	1,080.93	60.94	18.736	
8,400.00	8,398.57	8,295.32	8,211.31	29.06	32.66	32.10	-0.52	-1,123.51	1,157.73	1,096.00	61.73	18.754	
8,500.00	8,498.57	8,394.08	8,308.76	29.40	33.10	48.13	-0.52	-1,139.48	1,173.46	1,110.94	62.52	18.769	
8,600.00	8,598.57	8,502.98	8,416.25	29.75	33.57	44.83	-0.52	-1,156.96	1,188.93	1,125.56	63.37	18.760	
8,700.00	8,698.56	8,647.36	8,559.30	30.10	34.21	41.90	-0.52	-1,176.40	1,201.58	1,137.11	64.46	18.640	
8,800.00	8,798.55	8,792.95	8,704.20	30.45	34.84	34.50	-0.52	-1,190.51	1,210.19	1,144.72	65.47	18.486	
8,900.00	8,898.54	8,939.30	8,850.29	30.80	35.40	38.39	-0.52	-1,199.13	1,214.97	1,148.65	66.33	18.318	
9,000.00	8,998.54	9,085.97	8,996.92	31.15	35.75	43.76	-0.52	-1,202.14	1,216.14	1,149.25	66.90	18.179	
9,100.00	9,098.53	9,187.58	9,098.53	31.49	35.78	53.07	-0.52	-1,202.14	1,215.50	1,148.23	67.27	18.070	
9,200.00	9,198.53	9,287.58	9,198.53	31.84	35.80	62.96	-0.52	-1,202.14	1,214.91	1,147.27	67.64	17.962	
9,300.00	9,298.52	9,387.57	9,298.52	32.19	35.83	80.23	-0.52	-1,202.14	1,214.52	1,146.51	68.01	17.858	
9,337.89	9,336.40	9,425.46	9,336.40	32.32	35.83	90.00	-0.52	-1,202.14	1,214.49	1,146.34	68.15	17.821	
9,400.00	9,398.52	9,487.57	9,398.52	32.54	35.85	105.55	-0.52	-1,202.14	1,214.67	1,146.28	68.38	17.763	
9,500.00	9,498.51	9,587.56	9,498.51	32.89	35.87	106.07	-0.52	-1,202.14	1,214.86	1,146.10	68.75	17.670	
9,600.00	9,598.51	9,687.56	9,598.51	33.23	35.90	-143.88	-0.52	-1,202.14	1,215.17	1,146.05	69.13	17.579	
9,700.00	9,698.51	9,787.56	9,698.51	33.58	35.92	-105.31	-0.52	-1,202.14	1,215.58	1,146.08	69.50	17.491	
9,800.00	9,798.50	9,887.55	9,798.50	33.93	35.95	-86.98	-0.52	-1,202.14	1,215.68	1,145.81	69.87	17.399	
9,897.90	9,896.39	9,985.44	9,896.39	34.27	35.97	-90.35	-0.52	-1,202.14	1,215.65	1,145.41	70.24	17.308	
9,900.00	9,898.48	9,987.54	9,898.48	34.28	35.97	-90.42	-0.52	-1,202.14	1,215.57	1,145.32	70.24	17.305	
10,000.00	9,998.47	10,087.52	9,998.47	34.63	35.99	-143.21	-0.52	-1,202.14	1,216.04	1,145.42	70.62	17.220	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 323H - OH - Plan 4 01-05-21												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis					Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,100.00	10,098.45	10,187.50	10,098.45	34.98	36.02	175.37	-0.52	-1,202.14	1,217.96	1,146.97	70.99	17.157	
10,200.00	10,198.42	10,287.48	10,198.42	35.33	36.04	-176.93	-0.52	-1,202.14	1,220.23	1,148.87	71.36	17.099	
10,300.00	10,298.42	10,387.47	10,298.42	35.68	36.07	-156.50	-0.52	-1,202.14	1,221.04	1,149.30	71.74	17.021	
10,400.00	10,398.42	10,487.47	10,398.42	36.03	36.09	-63.08	-0.52	-1,202.14	1,221.21	1,149.10	72.11	16.935	
10,500.00	10,498.42	10,587.47	10,498.42	36.38	36.12	34.24	-0.52	-1,202.14	1,220.72	1,148.23	72.49	16.841	
10,600.00	10,598.41	10,687.46	10,598.41	36.72	36.14	46.01	-0.52	-1,202.14	1,219.85	1,146.98	72.86	16.742	
10,700.00	10,698.40	10,787.45	10,698.40	37.07	36.17	69.04	-0.52	-1,202.14	1,219.19	1,145.96	73.24	16.648	
10,800.00	10,798.39	10,887.44	10,798.39	37.42	36.20	54.45	-0.52	-1,202.14	1,218.38	1,144.77	73.61	16.552	
10,900.00	10,898.37	10,987.42	10,898.37	37.77	36.22	53.05	-0.52	-1,202.14	1,217.31	1,143.32	73.99	16.453	
11,000.00	10,998.36	11,087.41	10,998.36	38.12	36.25	9.93	-0.52	-1,202.14	1,215.93	1,141.57	74.36	16.351	
11,100.00	11,098.34	11,187.39	11,098.34	38.47	36.27	-13.65	-0.52	-1,202.14	1,214.21	1,139.47	74.74	16.246	
11,200.00	11,198.33	11,287.38	11,198.33	38.82	36.30	-4.77	-0.52	-1,202.14	1,212.68	1,137.56	75.12	16.144	
11,300.00	11,298.32	11,387.37	11,298.32	39.17	36.33	-23.23	-0.52	-1,202.14	1,211.54	1,136.05	75.49	16.049	
11,400.00	11,398.31	11,487.37	11,398.31	39.52	36.35	-44.54	-0.52	-1,202.14	1,210.61	1,134.74	75.87	15.957	
11,500.00	11,498.30	11,587.35	11,498.30	39.87	36.38	-47.46	-0.52	-1,202.14	1,209.28	1,133.03	76.25	15.860	
11,600.00	11,598.26	11,687.31	11,598.26	40.22	36.41	-43.45	-0.52	-1,202.14	1,207.48	1,130.85	76.62	15.759	
11,700.00	11,698.13	11,787.18	11,698.13	40.57	36.44	-81.68	-0.52	-1,202.14	1,205.45	1,128.45	77.00	15.655	
11,800.00	11,797.26	11,914.67	11,825.14	40.92	36.42	-74.44	7.35	-1,201.20	1,203.09	1,125.86	77.23	15.579	
11,900.00	11,894.04	12,057.77	11,959.89	41.25	36.37	-64.83	53.54	-1,195.69	1,189.16	1,111.82	77.33	15.377	
12,000.00	11,984.36	12,188.72	12,066.19	41.58	36.35	-72.91	128.79	-1,186.72	1,165.29	1,087.78	77.51	15.304	
12,100.00	12,063.58	12,309.60	12,142.72	41.88	36.38	-80.19	221.29	-1,175.69	1,139.91	1,062.12	77.80	14.653	
12,200.00	12,127.93	12,422.84	12,191.10	42.16	36.47	-87.83	322.66	-1,163.60	1,118.62	1,040.42	78.20	14.305	
12,280.00	12,167.00	12,509.74	12,211.13	42.36	36.60	-92.70	406.50	-1,153.61	1,112.47	1,033.87	78.60	14.154	
12,300.00	12,174.23	12,530.88	12,213.66	42.41	36.64	-93.38	427.35	-1,151.12	1,112.30	1,033.59	78.70	14.133	
12,400.00	12,207.18	12,600.00	12,215.86	42.64	36.79	-94.39	495.91	-1,143.06	1,128.31	1,049.00	79.31	14.227	
12,500.00	12,226.06	12,668.74	12,215.62	42.85	37.02	-91.50	564.37	-1,136.89	1,154.76	1,074.87	79.89	14.454	
12,600.00	12,231.93	12,727.48	12,215.41	43.07	37.26	-89.42	623.02	-1,133.58	1,186.10	1,105.69	80.41	14.750	
12,700.00	12,232.01	12,800.00	12,215.16	43.31	37.62	-89.13	695.52	-1,131.98	1,220.20	1,139.19	81.02	15.061	
12,800.00	12,232.36	12,859.05	12,214.95	46.60	37.86	-89.14	754.56	-1,132.30	1,248.83	1,167.06	81.77	15.272	
12,900.00	12,231.44	12,956.57	12,214.60	46.64	38.28	-89.20	852.08	-1,132.98	1,270.93	1,188.48	82.45	15.414	
13,000.00	12,231.18	13,054.36	12,214.26	46.69	38.75	-89.19	949.87	-1,133.66	1,291.79	1,208.57	83.22	15.522	
13,100.00	12,230.71	13,152.78	12,213.91	46.74	39.27	-89.20	1,048.28	-1,134.34	1,309.50	1,225.42	84.08	15.575	
13,200.00	12,230.03	13,251.71	12,213.56	46.79	39.85	-89.22	1,147.21	-1,135.03	1,324.03	1,239.02	85.01	15.575	
13,300.00	12,229.13	13,351.06	12,213.21	46.86	40.48	-89.26	1,246.56	-1,135.72	1,335.37	1,249.35	86.02	15.523	
13,400.00	12,228.02	13,450.72	12,212.85	46.94	41.15	-89.31	1,346.22	-1,136.42	1,343.51	1,256.40	87.11	15.423	
13,500.00	12,226.71	13,550.59	12,212.50	47.07	41.86	-89.37	1,446.08	-1,137.11	1,348.44	1,260.17	88.27	15.276	
13,600.00	12,225.18	13,650.56	12,212.15	47.30	42.61	-89.45	1,546.05	-1,137.81	1,350.16	1,260.66	89.50	15.086	
13,700.00	12,223.54	13,750.55	12,211.79	47.68	43.40	-89.50	1,646.04	-1,138.50	1,350.18	1,259.38	90.79	14.871	
13,800.00	12,221.91	13,850.55	12,211.44	48.18	44.22	-89.56	1,746.03	-1,139.20	1,350.19	1,258.04	92.15	14.652	
13,900.00	12,221.16	13,950.54	12,211.08	48.74	45.07	-89.57	1,846.02	-1,139.90	1,350.22	1,256.65	93.57	14.430	
14,000.00	12,220.99	14,050.54	12,210.73	49.34	45.95	-89.56	1,946.02	-1,140.59	1,350.25	1,255.20	95.06	14.205	
14,100.00	12,220.82	14,150.54	12,210.38	49.99	46.86	-89.56	2,046.02	-1,141.29	1,350.29	1,253.69	96.60	13.978	
14,200.00	12,220.64	14,250.54	12,210.02	50.66	47.79	-89.55	2,146.01	-1,141.98	1,350.32	1,252.13	98.19	13.752	
14,300.00	12,220.47	14,350.54	12,209.67	51.36	48.75	-89.54	2,246.01	-1,142.68	1,350.36	1,250.52	99.84	13.526	
14,400.00	12,220.29	14,450.54	12,209.31	52.08	49.73	-89.53	2,346.01	-1,143.38	1,350.39	1,248.86	101.53	13.301	
14,500.00	12,220.12	14,550.54	12,208.96	52.83	50.73	-89.53	2,446.00	-1,144.07	1,350.42	1,247.16	103.26	13.077	
14,600.00	12,219.94	14,650.54	12,208.61	53.60	51.75	-89.52	2,546.00	-1,144.77	1,350.46	1,245.41	105.04	12.856	
14,700.00	12,219.77	14,750.54	12,208.25	54.40	52.79	-89.51	2,646.00	-1,145.46	1,350.49	1,243.63	106.86	12.637	
14,800.00	12,219.59	14,850.54	12,207.90	55.21	53.84	-89.50	2,745.99	-1,146.16	1,350.53	1,241.80	108.72	12.422	
14,900.00	12,219.42	14,950.54	12,207.54	56.04	54.92	-89.50	2,845.99	-1,146.86	1,350.56	1,239.94	110.62	12.209	
15,000.00	12,219.24	15,050.54	12,207.19	56.89	56.01	-89.49	2,945.99	-1,147.55	1,350.60	1,238.04	112.55	12.000	
15,100.00	12,219.07	15,150.54	12,206.84	57.76	57.11	-89.48	3,045.98	-1,148.25	1,350.63	1,236.11	114.52	11.794	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 323H - OH - Plan 4 01-05-21												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis					Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,200.00	12,218.90	15,250.54	12,206.48	58.64	58.23	-89.47	3,145.98	-1,148.94	1,350.67	1,234.15	116.51	11.592	
15,300.00	12,218.72	15,350.54	12,206.13	59.54	59.36	-89.47	3,245.98	-1,149.64	1,350.70	1,232.16	118.54	11.395	
15,400.00	12,218.55	15,450.54	12,205.78	60.46	60.50	-89.46	3,345.98	-1,150.34	1,350.73	1,230.14	120.59	11.201	
15,500.00	12,218.37	15,550.54	12,205.42	61.39	61.66	-89.45	3,445.97	-1,151.03	1,350.77	1,228.10	122.67	11.011	
15,600.00	12,218.20	15,650.54	12,205.07	62.33	62.83	-89.44	3,545.97	-1,151.73	1,350.80	1,226.02	124.78	10.825	
15,700.00	12,218.02	15,750.54	12,204.71	63.29	64.00	-89.44	3,645.97	-1,152.42	1,350.84	1,223.93	126.91	10.644	
15,800.00	12,217.85	15,850.54	12,204.36	64.25	65.19	-89.43	3,745.96	-1,153.12	1,350.87	1,221.81	129.07	10.466	
15,900.00	12,217.67	15,950.54	12,204.01	65.24	66.39	-89.42	3,845.96	-1,153.82	1,350.91	1,219.66	131.24	10.293	
16,000.00	12,217.50	16,050.54	12,203.65	66.23	67.59	-89.41	3,945.96	-1,154.51	1,350.94	1,217.50	133.44	10.124	
16,100.00	12,217.33	16,150.54	12,203.30	67.23	68.80	-89.41	4,045.95	-1,155.21	1,350.98	1,215.32	135.66	9.959	
16,200.00	12,217.15	16,250.54	12,202.94	68.24	70.03	-89.40	4,145.95	-1,155.90	1,351.01	1,213.12	137.90	9.797	
16,300.00	12,216.98	16,350.54	12,202.59	69.27	71.26	-89.39	4,245.95	-1,156.60	1,351.05	1,210.90	140.15	9.640	
16,400.00	12,216.80	16,450.54	12,202.24	70.30	72.49	-89.38	4,345.94	-1,157.30	1,351.08	1,208.66	142.42	9.486	
16,500.00	12,216.63	16,550.54	12,201.88	71.34	73.74	-89.37	4,445.94	-1,157.99	1,351.12	1,206.40	144.71	9.337	
16,600.00	12,216.45	16,650.54	12,201.53	72.39	74.99	-89.37	4,545.94	-1,158.69	1,351.15	1,204.13	147.02	9.191	
16,700.00	12,216.28	16,750.54	12,201.17	73.45	76.24	-89.36	4,645.93	-1,159.38	1,351.19	1,201.85	149.34	9.048	
16,800.00	12,216.10	16,850.54	12,200.82	74.52	77.51	-89.35	4,745.93	-1,160.08	1,351.22	1,199.55	151.67	8.909	
16,900.00	12,215.93	16,950.54	12,200.47	75.60	78.78	-89.34	4,845.93	-1,160.78	1,351.25	1,197.24	154.02	8.773	
17,000.00	12,215.75	17,050.54	12,200.11	76.68	80.05	-89.34	4,945.92	-1,161.47	1,351.29	1,194.91	156.38	8.641	
17,100.00	12,215.58	17,150.54	12,199.76	77.77	81.33	-89.33	5,045.92	-1,162.17	1,351.32	1,192.58	158.75	8.512	
17,200.00	12,215.41	17,250.54	12,199.41	78.86	82.61	-89.32	5,145.92	-1,162.86	1,351.36	1,190.23	161.13	8.387	
17,300.00	12,215.23	17,350.54	12,199.05	79.97	83.90	-89.31	5,245.91	-1,163.56	1,351.39	1,187.86	163.53	8.264	
17,400.00	12,215.06	17,450.54	12,198.70	81.07	85.20	-89.31	5,345.91	-1,164.26	1,351.43	1,185.49	165.94	8.144	
17,500.00	12,214.88	17,550.54	12,198.34	82.19	86.49	-89.30	5,445.91	-1,164.95	1,351.46	1,183.11	168.35	8.027	
17,600.00	12,214.71	17,650.54	12,197.99	83.31	87.80	-89.29	5,545.90	-1,165.65	1,351.50	1,180.72	170.78	7.914	
17,700.00	12,214.53	17,750.54	12,197.64	84.44	89.10	-89.28	5,645.90	-1,166.34	1,351.53	1,178.32	173.22	7.802	
17,800.00	12,214.36	17,850.54	12,197.28	85.57	90.41	-89.28	5,745.90	-1,167.04	1,351.57	1,175.90	175.67	7.694	
17,900.00	12,214.18	17,950.54	12,196.93	86.70	91.73	-89.27	5,845.90	-1,167.74	1,351.60	1,173.48	178.12	7.588	
18,000.00	12,214.01	18,050.54	12,196.57	87.84	93.04	-89.26	5,945.89	-1,168.43	1,351.64	1,171.06	180.58	7.485	
18,100.00	12,213.83	18,150.54	12,196.22	88.99	94.36	-89.25	6,045.89	-1,169.13	1,351.67	1,168.62	183.06	7.384	
18,200.00	12,213.66	18,250.54	12,195.87	90.14	95.69	-89.25	6,145.89	-1,169.82	1,351.71	1,166.17	185.54	7.285	
18,300.00	12,213.49	18,350.54	12,195.51	91.30	97.02	-89.24	6,245.88	-1,170.52	1,351.75	1,163.72	188.02	7.189	
18,400.00	12,213.31	18,450.54	12,195.16	92.45	98.35	-89.23	6,345.88	-1,171.22	1,351.78	1,161.26	190.52	7.095	
18,500.00	12,213.14	18,550.54	12,194.80	93.62	99.68	-89.22	6,445.88	-1,171.91	1,351.82	1,158.80	193.02	7.004	
18,600.00	12,212.96	18,650.54	12,194.45	94.78	101.02	-89.22	6,545.87	-1,172.61	1,351.85	1,156.33	195.53	6.914	
18,700.00	12,212.79	18,750.54	12,194.10	95.95	102.35	-89.21	6,645.87	-1,173.31	1,351.89	1,153.85	198.04	6.826	
18,800.00	12,212.61	18,850.54	12,193.74	97.13	103.69	-89.20	6,745.87	-1,174.00	1,351.92	1,151.36	200.56	6.741	
18,900.00	12,212.44	18,950.53	12,193.39	98.31	105.04	-89.19	6,845.86	-1,174.70	1,351.96	1,148.87	203.09	6.657	
19,000.00	12,212.26	19,050.53	12,193.03	99.49	106.38	-89.19	6,945.86	-1,175.39	1,351.99	1,146.37	205.62	6.575	
19,100.00	12,212.09	19,150.53	12,192.68	100.67	107.73	-89.18	7,045.86	-1,176.09	1,352.03	1,143.87	208.16	6.495	
19,200.00	12,211.91	19,250.53	12,192.33	101.86	109.08	-89.17	7,145.85	-1,176.79	1,352.06	1,141.36	210.70	6.417	
19,300.00	12,211.74	19,350.53	12,191.97	103.05	110.44	-89.16	7,245.85	-1,177.48	1,352.10	1,138.85	213.25	6.341	
19,400.00	12,211.57	19,450.53	12,191.62	104.24	111.79	-89.15	7,345.85	-1,178.18	1,352.13	1,136.33	215.80	6.266	
19,500.00	12,211.39	19,550.53	12,191.27	105.44	113.15	-89.15	7,445.84	-1,178.87	1,352.17	1,133.81	218.36	6.192	
19,600.00	12,211.22	19,650.53	12,190.91	106.64	114.51	-89.14	7,545.84	-1,179.57	1,352.20	1,131.28	220.92	6.121	
19,700.00	12,211.04	19,750.53	12,190.56	107.84	115.87	-89.13	7,645.84	-1,180.27	1,352.24	1,128.75	223.49	6.051	
19,800.00	12,210.87	19,850.53	12,190.20	109.04	117.23	-89.12	7,745.83	-1,180.96	1,352.28	1,126.22	226.06	5.982	
19,900.00	12,210.69	19,950.53	12,189.85	110.25	118.59	-89.12	7,845.83	-1,181.66	1,352.31	1,123.68	228.63	5.915	
20,000.00	12,210.52	20,050.53	12,189.50	111.46	119.96	-89.11	7,945.83	-1,182.35	1,352.35	1,121.13	231.21	5.849	
20,100.00	12,210.34	20,150.53	12,189.14	112.67	121.33	-89.10	8,045.82	-1,183.05	1,352.38	1,118.59	233.80	5.784	
20,200.00	12,210.17	20,250.53	12,188.79	113.88	122.69	-89.09	8,145.82	-1,183.75	1,352.42	1,116.04	236.38	5.721	
20,300.00	12,209.99	20,350.53	12,188.43	115.10	124.06	-89.09	8,245.82	-1,184.44	1,352.45	1,113.48	238.97	5.659	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 323H - OH - Plan 4 01-05-21												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,400.00	12,209.82	20,450.53	12,188.08	116.31	125.44	-89.08	8,345.81	-1,185.14	1,352.49	1,110.92	241.57	5.599	
20,500.00	12,209.65	20,550.53	12,187.73	117.53	126.81	-89.07	8,445.81	-1,185.83	1,352.53	1,108.36	244.16	5.539	
20,600.00	12,209.47	20,650.53	12,187.37	118.75	128.18	-89.06	8,545.81	-1,186.53	1,352.56	1,105.80	246.77	5.481	
20,700.00	12,209.30	20,750.53	12,187.02	119.98	129.56	-89.06	8,645.81	-1,187.23	1,352.60	1,103.23	249.37	5.424	
20,800.00	12,209.12	20,850.53	12,186.66	121.20	130.94	-89.05	8,745.80	-1,187.92	1,352.63	1,100.66	251.98	5.368	
20,900.00	12,208.95	20,950.53	12,186.31	122.43	132.32	-89.04	8,845.80	-1,188.62	1,352.67	1,098.08	254.59	5.313	
21,000.00	12,208.77	21,050.53	12,185.96	123.66	133.70	-89.03	8,945.80	-1,189.31	1,352.70	1,095.50	257.20	5.259	
21,100.00	12,208.60	21,150.53	12,185.60	124.89	135.08	-89.03	9,045.79	-1,190.01	1,352.74	1,092.92	259.82	5.207	
21,200.00	12,208.42	21,250.53	12,185.25	126.12	136.46	-89.02	9,145.79	-1,190.71	1,352.78	1,090.34	262.43	5.155	
21,300.00	12,208.25	21,350.53	12,184.90	127.35	137.84	-89.01	9,245.79	-1,191.40	1,352.81	1,087.76	265.05	5.104	
21,400.00	12,208.07	21,450.53	12,184.54	128.59	139.23	-89.00	9,345.78	-1,192.10	1,352.85	1,085.17	267.68	5.054	
21,500.00	12,207.90	21,550.53	12,184.19	129.82	140.61	-89.00	9,445.78	-1,192.79	1,352.88	1,082.58	270.30	5.005	
21,600.00	12,207.73	21,650.53	12,183.83	131.06	142.00	-88.99	9,545.78	-1,193.49	1,352.92	1,079.99	272.93	4.957	
21,700.00	12,207.55	21,750.53	12,183.48	132.30	143.39	-88.98	9,645.77	-1,194.19	1,352.96	1,077.39	275.56	4.910	
21,800.00	12,207.38	21,850.53	12,183.13	133.54	144.77	-88.97	9,745.77	-1,194.88	1,352.99	1,074.79	278.20	4.863	
21,900.00	12,207.20	21,950.53	12,182.77	134.78	146.16	-88.97	9,845.77	-1,195.58	1,353.03	1,072.19	280.83	4.818	
22,000.00	12,207.03	22,050.53	12,182.42	136.03	147.55	-88.96	9,945.76	-1,196.27	1,353.06	1,069.59	283.47	4.773	
22,100.00	12,206.85	22,150.53	12,182.06	137.27	148.95	-88.95	10,045.76	-1,196.97	1,353.10	1,066.99	286.11	4.729	
22,200.00	12,206.68	22,250.53	12,181.71	138.52	150.34	-88.94	10,145.76	-1,197.67	1,353.14	1,064.38	288.75	4.686	
22,300.00	12,206.50	22,350.53	12,181.36	139.76	151.73	-88.94	10,245.75	-1,198.36	1,353.17	1,061.78	291.40	4.644	
22,400.00	12,206.33	22,450.53	12,181.00	141.01	153.12	-88.93	10,345.75	-1,199.06	1,353.21	1,059.17	294.04	4.602	
22,500.00	12,206.16	22,550.53	12,180.65	142.26	154.52	-88.92	10,445.75	-1,199.75	1,353.24	1,056.55	296.69	4.561	
22,600.00	12,205.98	22,650.53	12,180.29	143.51	155.91	-88.91	10,545.74	-1,200.45	1,353.28	1,053.94	299.34	4.521	
22,700.00	12,205.81	22,750.53	12,179.94	144.76	157.31	-88.90	10,645.74	-1,201.15	1,353.32	1,051.33	301.99	4.481	
22,800.00	12,205.63	22,850.53	12,179.59	146.02	158.71	-88.90	10,745.74	-1,201.84	1,353.35	1,048.71	304.64	4.442	
22,900.00	12,205.46	22,950.53	12,179.23	147.27	160.10	-88.89	10,845.73	-1,202.54	1,353.39	1,046.09	307.30	4.404	
23,000.00	12,205.28	23,050.53	12,178.88	148.52	161.50	-88.88	10,945.73	-1,203.23	1,353.43	1,043.47	309.96	4.367	
23,100.00	12,205.11	23,150.53	12,178.53	149.78	162.90	-88.87	11,045.73	-1,203.93	1,353.46	1,040.85	312.61	4.330	
23,200.00	12,204.93	23,250.53	12,178.17	151.04	164.30	-88.87	11,145.72	-1,204.63	1,353.50	1,038.22	315.27	4.293	
23,300.00	12,204.93	23,250.53	12,178.17	151.04	164.30	-88.87	11,145.72	-1,204.63	1,353.50	1,038.22	315.27	4.293	
23,251.42	12,204.84	23,298.84	12,178.00	151.68	164.98	-88.86	11,194.04	-1,204.96	1,353.52	1,036.90	316.62	4.275 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 324H - OH / 67084 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 141-MWD+HDGM+MS												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,791.00	12,231.81	12,790.98	12,232.37	0.00	0.00	-147.15	754.55	114.27	0.67	0.67	0.00	N/A	
12,800.00	12,232.36	12,800.00	12,232.36	1.09	0.06	-69.59	763.32	116.38	0.01	-0.80	0.81	0.007 Level 1	
12,900.00	12,231.44	12,899.98	12,230.48	0.92	0.74	-42.26	861.13	136.95	1.30	0.43	0.87	1.490 Level 3	
13,000.00	12,231.18	12,999.70	12,229.36	0.80	1.34	-71.16	959.55	152.67	5.66	4.54	1.12	5.069	
13,100.00	12,230.71	13,098.83	12,229.69	0.97	1.84	-85.62	1,058.28	161.53	13.55	11.40	2.14	6.317 CC	
13,200.00	12,230.03	13,197.79	12,229.32	1.34	2.28	-88.21	1,157.15	165.56	23.32	20.42	2.90	8.031	
13,300.00	12,229.13	13,296.92	12,228.99	1.76	2.71	-89.70	1,256.27	167.41	32.12	28.38	3.73	8.606	
13,400.00	12,228.02	13,396.93	12,229.15	2.21	3.16	-91.64	1,356.27	168.34	38.65	33.97	4.69	8.250	
13,500.00	12,226.71	13,497.71	12,230.99	2.71	3.65	-96.20	1,456.97	171.70	39.78	34.04	5.74	6.927	
13,600.00	12,225.18	13,597.37	12,232.55	3.23	4.18	-101.28	1,556.56	175.18	37.81	31.09	6.72	5.628	
13,700.00	12,223.54	13,697.18	12,233.11	3.78	4.73	-105.89	1,656.32	177.91	35.02	27.33	7.69	4.553	
13,800.00	12,221.91	13,797.18	12,232.74	4.36	5.31	-109.56	1,756.30	180.38	32.42	23.70	8.71	3.721	
13,900.00	12,221.16	13,896.97	12,233.59	4.97	5.91	-114.81	1,856.04	183.36	29.64	20.05	9.59	3.092	
14,000.00	12,220.99	13,996.39	12,235.79	5.60	6.54	-121.78	1,955.40	185.69	28.11	17.96	10.15	2.771	
14,010.11	12,220.97	14,006.42	12,236.13	5.67	6.61	-122.65	1,965.43	185.87	28.09	17.92	10.17	2.762	
14,100.00	12,220.82	14,096.31	12,239.13	6.27	7.20	-130.13	2,055.26	187.20	28.41	17.95	10.47	2.714	
14,200.00	12,220.64	14,196.40	12,241.65	6.95	7.88	-137.21	2,155.30	188.82	28.62	17.88	10.74	2.664	
14,300.00	12,220.47	14,296.57	12,243.25	7.67	8.59	-142.64	2,255.44	190.20	28.67	17.57	11.10	2.582	
14,400.00	12,220.29	14,396.57	12,242.98	8.41	9.31	-143.04	2,355.44	189.87	28.39	16.27	12.12	2.342	
14,459.66	12,220.19	14,456.17	12,242.20	8.86	9.75	-141.03	2,415.03	188.74	28.31	15.20	13.11	2.160	
14,500.00	12,220.12	14,496.45	12,241.43	9.17	10.05	-138.71	2,455.28	187.56	28.36	14.42	13.94	2.034	
14,600.00	12,219.94	14,596.26	12,238.84	9.95	10.80	-130.56	2,554.98	183.53	29.07	12.55	16.52	1.760	
14,700.00	12,219.77	14,696.10	12,235.55	10.76	11.58	-120.96	2,654.65	178.66	30.67	11.28	19.39	1.582	
14,800.00	12,219.59	14,795.93	12,233.51	11.59	12.38	-114.76	2,754.35	174.12	33.24	11.50	21.74	1.529	
14,900.00	12,219.42	14,896.07	12,232.79	12.45	13.21	-111.96	2,854.42	170.48	35.75	12.03	23.72	1.507	
15,000.00	12,219.24	14,996.15	12,232.37	13.34	14.06	-110.27	2,954.45	167.43	37.89	12.30	25.59	1.481 Level 3	
15,100.00	12,219.07	15,096.18	12,233.50	14.30	14.94	-111.22	3,054.44	165.15	39.86	12.72	27.14	1.469 Level 3	
15,200.00	12,218.90	15,196.11	12,233.94	15.63	15.83	-111.12	3,154.34	162.69	41.76	12.96	28.80	1.450 Level 3	
15,300.00	12,218.72	15,296.25	12,233.50	16.66	16.74	-109.68	3,254.43	159.67	43.87	13.11	30.77	1.426 Level 3	
15,400.00	12,218.55	15,396.98	12,232.74	17.62	17.67	-108.48	3,355.14	157.83	44.79	11.91	32.88	1.362 Level 3	
15,500.00	12,218.37	15,497.44	12,231.98	18.56	18.62	-107.95	3,455.59	157.62	44.17	9.30	34.87	1.267 Level 3	
15,600.00	12,218.20	15,597.53	12,234.57	19.50	19.58	-112.32	3,555.64	159.08	43.12	7.13	35.99	1.198 Level 2	
15,700.00	12,218.02	15,697.38	12,237.19	20.44	20.55	-116.98	3,655.44	160.67	42.24	5.45	36.79	1.148 Level 2	
15,800.00	12,217.85	15,797.42	12,238.63	21.38	21.54	-119.86	3,755.47	161.45	41.74	3.84	37.90	1.101 Level 2	
15,900.00	12,217.67	15,897.32	12,238.58	22.33	22.53	-120.52	3,855.37	161.53	41.16	1.67	39.48	1.042 Level 2	
16,000.00	12,217.50	15,997.42	12,237.80	23.29	23.53	-119.92	3,955.46	161.04	40.71	-0.79	41.50	0.981 Level 1	
16,100.00	12,217.33	16,097.34	12,237.14	24.25	24.55	-119.56	4,055.38	160.73	40.16	-3.26	43.42	0.925 Level 1	
16,180.73	12,217.18	16,177.91	12,237.82	25.04	25.37	-121.07	4,135.94	160.88	39.99	-4.42	44.41	0.900 Level 1	
16,200.00	12,217.15	16,197.14	12,238.01	25.23	25.57	-121.44	4,155.17	160.87	40.00	-4.64	44.64	0.896 Level 1	
16,300.00	12,216.98	16,297.01	12,238.46	26.22	26.60	-122.23	4,255.04	160.26	40.29	-5.91	46.20	0.872 Level 1	
16,400.00	12,216.80	16,397.14	12,237.36	27.22	27.65	-120.44	4,355.15	158.69	40.58	-8.14	48.71	0.833 Level 1	
16,500.00	12,216.63	16,497.43	12,237.09	28.23	28.70	-120.49	4,455.43	158.25	40.34	-10.35	50.68	0.796 Level 1	
16,600.00	12,216.45	16,597.59	12,237.64	29.25	29.77	-122.33	4,555.59	158.87	39.62	-12.36	51.97	0.762 Level 1	
16,700.00	12,216.28	16,697.75	12,237.32	30.28	30.84	-123.36	4,655.75	159.71	38.28	-15.25	53.53	0.715 Level 1	
16,800.00	12,216.10	16,797.40	12,237.15	31.31	31.91	-124.34	4,755.40	160.21	37.31	-17.62	54.93	0.679 Level 1	
16,838.85	12,216.04	16,836.08	12,237.36	31.72	32.33	-124.96	4,794.07	160.26	37.22	-18.14	55.36	0.672 Level 1	
16,900.00	12,215.93	16,897.34	12,237.85	32.36	33.00	-126.04	4,855.33	160.23	37.26	-18.82	56.08	0.664 Level 1	
17,000.00	12,215.75	16,997.74	12,237.11	33.42	34.09	-126.11	4,955.73	160.40	36.25	-21.83	58.08	0.624 Level 1	
17,100.00	12,215.58	17,097.66	12,235.82	34.48	35.19	-125.50	5,055.63	160.66	34.85	-25.41	60.26	0.578 Level 1	
17,200.00	12,215.41	17,197.35	12,234.98	35.56	36.29	-125.02	5,155.32	160.44	34.10	-28.22	62.32	0.547 Level 1	
17,226.29	12,215.36	17,223.55	12,235.07	35.84	36.58	-125.35	5,181.52	160.41	34.07	-28.58	62.64	0.544 Level 1	
17,300.00	12,215.23	17,297.01	12,235.99	36.64	37.40	-127.20	5,254.98	160.35	34.34	-28.69	63.03	0.545 Level 1	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 324H - OH / 67084 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 141-MWD+HDGM+MS												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,400.00	12,215.06	17,396.98	12,237.85	37.72	38.52	-130.18	5,354.92	160.06	35.32	-28.00	63.32	0.558	Level 1
17,500.00	12,214.88	17,496.96	12,238.74	38.82	39.64	-131.31	5,454.90	159.23	36.14	-28.42	64.56	0.560	Level 1
17,600.00	12,214.71	17,597.21	12,238.59	39.92	40.77	-130.38	5,555.13	157.63	36.87	-30.25	67.11	0.549	Level 1
17,700.00	12,214.53	17,696.93	12,237.13	41.03	41.90	-127.25	5,654.81	155.33	37.34	-33.42	70.76	0.528	Level 1
17,800.00	12,214.36	17,796.96	12,235.65	42.14	43.04	-123.60	5,754.79	152.34	38.48	-36.34	74.82	0.514	Level 1
17,900.00	12,214.18	17,896.75	12,234.18	43.26	44.18	-120.16	5,854.52	149.32	39.80	-38.83	78.63	0.506	Level 1
18,000.00	12,214.01	17,996.53	12,234.47	44.39	45.32	-119.40	5,954.27	146.76	41.68	-39.36	81.05	0.514	Level 1
18,100.00	12,213.83	18,097.21	12,233.85	45.52	46.48	-117.75	6,054.91	144.37	42.98	-41.27	84.25	0.510	Level 1
18,200.00	12,213.66	18,197.23	12,233.41	46.66	47.64	-117.00	6,154.92	142.96	43.52	-43.26	86.78	0.501	Level 1
18,300.00	12,213.49	18,297.52	12,234.23	47.80	48.81	-118.30	6,255.21	142.54	43.76	-44.57	88.33	0.495	Level 1
18,400.00	12,213.31	18,398.04	12,233.20	48.95	49.98	-117.72	6,355.72	142.55	42.76	-48.18	90.94	0.470	Level 1
18,500.00	12,213.14	18,497.73	12,232.91	50.10	51.14	-118.19	6,455.41	142.86	41.85	-50.90	92.75	0.451	Level 1
18,600.00	12,212.96	18,597.61	12,234.03	51.26	52.32	-120.69	6,555.27	143.57	41.29	-52.09	93.38	0.442	Level 1
18,700.00	12,212.79	18,697.62	12,235.19	52.42	53.49	-122.89	6,655.28	143.78	41.25	-52.85	94.10	0.438	Level 1
18,800.00	12,212.61	18,797.98	12,234.48	53.58	54.68	-122.85	6,755.63	143.88	40.32	-56.04	96.36	0.418	Level 1
18,900.00	12,212.44	18,897.83	12,234.37	54.75	55.86	-124.00	6,855.48	144.58	39.22	-58.42	97.64	0.402	Level 1
19,000.00	12,212.26	18,997.73	12,235.45	55.93	57.04	-126.81	6,955.37	145.44	38.71	-58.92	97.62	0.396	Level 1
19,100.00	12,212.09	19,097.91	12,235.30	57.10	58.23	-127.68	7,055.55	145.71	37.98	-61.10	99.08	0.383	Level 1
19,200.00	12,211.91	19,197.88	12,233.96	58.28	59.43	-126.66	7,155.51	145.48	36.93	-65.03	101.95	0.362	Level 1
19,300.00	12,211.74	19,297.79	12,232.13	59.46	60.62	-124.31	7,255.40	144.55	36.18	-69.67	105.85	0.342	Level 1
19,400.00	12,211.57	19,397.89	12,230.19	60.65	61.82	-121.65	7,355.47	143.55	35.50	-74.52	110.02	0.323	Level 1
19,500.00	12,211.39	19,498.19	12,229.76	61.84	63.03	-122.46	7,455.76	144.23	34.23	-77.46	111.69	0.306	Level 1
19,600.00	12,211.22	19,598.32	12,230.39	63.03	64.23	-126.49	7,555.87	146.51	32.26	-78.38	110.64	0.292	Level 1
19,700.00	12,211.04	19,698.14	12,231.46	64.23	65.43	-132.18	7,655.64	149.24	30.42	-77.13	107.55	0.283	Level 1
19,800.00	12,210.87	19,798.46	12,232.37	65.43	66.64	-138.79	7,755.91	152.29	28.59	-74.62	103.21	0.277	Level 1
19,868.44	12,210.75	19,866.24	12,232.66	66.25	67.46	-142.10	7,823.68	153.61	27.77	-72.96	100.74	0.276	Level 1
19,900.00	12,210.69	19,897.53	12,233.01	66.63	67.84	-143.02	7,854.97	153.66	27.94	-72.25	100.18	0.279	Level 1
20,000.00	12,210.52	19,997.06	12,235.00	67.83	69.05	-145.40	7,954.47	152.91	29.76	-69.43	99.19	0.300	Level 1
20,100.00	12,210.34	20,096.74	12,238.06	69.04	70.26	-147.30	8,054.09	151.35	32.95	-65.81	98.76	0.334	Level 1
20,200.00	12,210.17	20,196.90	12,240.50	70.25	71.48	-147.54	8,154.19	149.18	35.96	-64.46	100.42	0.358	Level 1
20,300.00	12,209.99	20,296.53	12,242.67	71.46	72.69	-145.91	8,253.74	145.70	39.49	-64.34	103.83	0.380	Level 1
20,400.00	12,209.82	20,396.92	12,243.93	72.67	73.92	-142.91	8,354.03	141.37	42.77	-66.49	109.26	0.391	Level 1
20,500.00	12,209.65	20,497.13	12,244.23	73.89	75.14	-140.36	8,454.18	137.83	44.93	-69.24	114.17	0.394	Level 1
20,600.00	12,209.47	20,596.85	12,244.65	75.10	76.36	-137.63	8,553.81	133.73	47.64	-71.49	119.12	0.400	Level 1
20,700.00	12,209.30	20,696.70	12,244.50	76.32	77.59	-134.31	8,653.55	129.10	50.42	-74.44	124.86	0.404	Level 1
20,800.00	12,209.12	20,796.76	12,245.33	77.54	78.82	-132.37	8,753.52	124.81	53.75	-75.38	129.13	0.416	Level 1
20,900.00	12,208.95	20,897.24	12,246.94	78.77	80.05	-132.62	8,853.96	122.55	56.12	-74.96	131.08	0.428	Level 1
21,000.00	12,208.77	20,997.54	12,248.33	79.99	81.29	-133.14	8,954.23	120.96	57.85	-74.77	132.62	0.436	Level 1
21,100.00	12,208.60	21,098.57	12,249.87	81.22	82.53	-134.72	9,055.25	120.81	58.66	-74.42	133.09	0.441	Level 1
21,200.00	12,208.42	21,199.56	12,249.05	82.45	83.78	-135.04	9,156.23	121.25	57.44	-77.53	134.97	0.426	Level 1
21,300.00	12,208.25	21,299.23	12,247.62	83.68	85.01	-135.16	9,255.88	122.02	55.52	-81.24	136.77	0.406	Level 1
21,400.00	12,208.07	21,399.56	12,247.07	84.91	86.25	-136.34	9,356.21	123.28	53.92	-83.48	137.40	0.392	Level 1
21,500.00	12,207.90	21,499.31	12,245.82	86.15	87.49	-136.80	9,455.94	124.24	52.02	-86.73	138.75	0.375	Level 1
21,600.00	12,207.73	21,599.49	12,244.16	87.38	88.73	-136.48	9,556.11	124.58	50.25	-90.98	141.23	0.356	Level 1
21,700.00	12,207.55	21,698.99	12,243.25	88.62	89.97	-137.02	9,655.60	125.25	48.80	-93.60	142.40	0.343	Level 1
21,800.00	12,207.38	21,799.46	12,242.58	89.86	91.22	-138.07	9,756.07	126.23	47.33	-95.78	143.12	0.331	Level 1
21,900.00	12,207.20	21,899.97	12,239.57	91.10	92.47	-136.56	9,856.52	126.53	44.61	-102.69	147.30	0.303	Level 1
22,000.00	12,207.03	21,999.59	12,235.71	92.34	93.72	-133.20	9,956.07	125.99	41.91	-111.85	153.76	0.273	Level 1
22,100.00	12,206.85	22,099.37	12,232.66	93.58	94.96	-130.23	10,055.80	125.36	39.97	-119.73	159.70	0.250	Level 1
22,200.00	12,206.68	22,199.35	12,229.78	94.82	96.21	-127.16	10,155.73	124.72	38.26	-127.51	165.77	0.231	Level 1
22,300.00	12,206.50	22,299.33	12,226.36	96.07	97.46	-122.75	10,255.65	123.67	36.71	-136.59	173.30	0.212	Level 1
22,359.17	12,206.40	22,358.58	12,224.63	96.81	98.21	-120.66	10,314.87	123.39	35.76	-141.29	177.05	0.202	Level 1, ES, SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 324H - OH / 67084 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 141-MWD+HDGM+MS												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
22,400.00	12,206.33	22,360.00	12,224.59	97.32	98.22	-120.62	10,316.29	123.39	52.74	-58.91	111.65	0.472	Level 1
22,500.00	12,206.16	22,360.00	12,224.59	98.56	98.22	-120.62	10,316.29	123.39	143.32	109.43	33.88	4.230	
22,600.00	12,205.98	22,360.00	12,224.59	99.81	98.22	-120.62	10,316.29	123.39	241.45	224.64	16.81	14.366	
22,700.00	12,205.81	22,360.00	12,224.59	101.06	98.22	-120.62	10,316.29	123.39	340.67	329.54	11.13	30.611	
22,800.00	12,205.63	22,360.00	12,224.59	102.31	98.22	-120.62	10,316.29	123.39	440.24	430.55	9.69	45.415	
22,900.00	12,205.46	22,360.00	12,224.59	103.57	98.22	-120.62	10,316.29	123.39	539.98	530.33	9.65	55.953	
23,000.00	12,205.28	22,360.00	12,224.59	104.82	98.22	-120.62	10,316.29	123.39	639.79	629.80	9.99	64.050	
23,100.00	12,205.11	22,360.00	12,224.59	106.07	98.22	-120.62	10,316.29	123.39	739.66	729.23	10.43	70.925	
23,200.00	12,204.93	22,360.00	12,224.59	107.33	98.22	-120.62	10,316.29	123.39	839.55	828.67	10.88	77.156	
23,251.42	12,204.84	22,360.00	12,224.59	107.97	98.22	-120.62	10,316.29	123.39	890.93	879.82	11.11	80.207	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 404H - OH / 67083 - Plan 6 11-30-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toelface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	1.00	1.00	1.00	-90.67	-0.29	-25.05	25.07					
100.00	100.00	99.00	100.00	1.01	1.08	-105.85	-0.29	-25.05	25.20	23.11	2.09	12.052		
200.00	199.98	198.98	199.98	1.08	1.59	-82.06	-0.29	-25.05	25.44	22.76	2.68	9.509		
300.00	299.96	298.96	299.96	1.26	2.01	-71.58	-0.29	-25.05	24.86	21.59	3.27	7.604		
340.64	340.60	339.60	340.60	1.36	2.14	-89.96	-0.29	-25.05	24.73	21.23	3.50	7.062 CC		
400.00	399.95	398.95	399.95	1.51	2.35	-120.14	-0.29	-25.05	24.83	20.97	3.86	6.435 ES		
500.00	499.92	498.92	499.92	1.79	2.65	-163.30	-0.29	-25.05	26.56	22.12	4.44	5.980		
600.00	599.89	598.89	599.89	2.09	2.92	-170.69	-0.29	-25.05	29.16	24.15	5.02	5.813		
700.00	699.85	698.85	699.85	2.41	3.18	-176.15	-0.29	-25.05	31.82	26.23	5.58	5.698		
800.00	799.82	798.82	799.82	2.74	3.41	-178.89	-0.29	-25.05	34.53	28.39	6.15	5.619		
900.00	899.80	898.80	899.80	3.07	3.63	-159.46	-0.29	-25.05	36.06	29.36	6.70	5.383		
1,000.00	999.80	998.80	999.80	3.40	3.84	-149.58	-0.29	-25.05	36.86	29.62	7.24	5.090		
1,100.00	1,099.80	1,098.80	1,099.80	3.74	4.04	-157.82	-0.29	-25.05	37.44	29.66	7.78	4.811		
1,200.00	1,199.79	1,198.79	1,199.79	4.08	4.24	-166.36	-0.29	-25.05	37.93	29.61	8.32	4.559		
1,300.00	1,299.79	1,298.79	1,299.79	4.43	4.42	-117.07	-0.29	-25.05	38.37	29.52	8.85	4.335		
1,400.00	1,399.79	1,398.79	1,399.79	4.77	4.61	-81.52	-0.29	-25.05	38.43	29.06	9.37	4.100		
1,500.00	1,499.78	1,498.78	1,499.78	5.11	4.78	-66.84	-0.29	-25.05	38.05	28.16	9.89	3.848		
1,600.00	1,599.77	1,598.34	1,599.34	5.45	4.94	-52.21	0.09	-25.80	37.70	27.32	10.38	3.632		
1,603.78	1,603.54	1,602.10	1,603.10	5.46	4.94	-51.82	0.12	-25.86	37.70	27.30	10.40	3.625		
1,700.00	1,699.75	1,697.90	1,698.86	5.79	5.11	-38.04	1.24	-28.10	38.19	27.32	10.88	3.511		
1,800.00	1,799.74	1,797.87	1,798.77	6.13	5.29	-38.74	2.81	-31.22	39.41	28.03	11.39	3.462		
1,900.00	1,899.73	1,897.85	1,898.69	6.47	5.48	-36.31	4.37	-34.33	40.71	28.81	11.90	3.420		
2,000.00	1,999.72	1,997.82	1,998.60	6.81	5.69	-12.88	5.94	-37.45	42.14	29.71	12.43	3.391		
2,100.00	2,099.71	2,097.78	2,098.50	7.15	5.90	20.93	7.50	-40.57	43.82	30.86	12.96	3.380		
2,200.00	2,199.71	2,197.74	2,198.40	7.49	6.13	3.33	9.07	-43.69	45.62	32.10	13.51	3.376		
2,300.00	2,299.70	2,297.71	2,298.30	7.83	6.36	1.35	10.64	-46.80	47.31	33.24	14.07	3.362		
2,400.00	2,399.69	2,397.67	2,398.21	8.18	6.59	15.90	12.20	-49.92	49.10	34.45	14.64	3.353		
2,500.00	2,499.69	2,497.63	2,498.10	8.52	6.84	31.70	13.77	-53.04	51.29	36.06	15.23	3.368		
2,600.00	2,599.68	2,597.58	2,597.99	8.87	7.09	24.56	15.33	-56.16	53.69	37.87	15.82	3.394		
2,700.00	2,699.68	2,697.53	2,697.88	9.21	7.34	6.43	16.90	-59.27	56.23	39.81	16.42	3.425		
2,800.00	2,799.68	2,797.49	2,797.78	9.56	7.60	-25.89	18.47	-62.39	58.88	41.86	17.02	3.459		
2,900.00	2,899.68	2,897.44	2,897.67	9.92	7.86	-57.00	20.03	-65.51	61.71	44.08	17.63	3.500		
3,000.00	2,999.68	2,997.40	2,997.57	10.27	8.13	-65.09	21.60	-68.63	64.72	46.48	18.24	3.548		
3,100.00	3,099.67	3,097.36	3,097.46	10.62	8.39	-58.73	23.16	-71.74	67.53	48.68	18.85	3.582		
3,200.00	3,199.67	3,197.32	3,197.36	10.98	8.67	-61.60	24.73	-74.86	70.27	50.81	19.46	3.610		
3,300.00	3,299.66	3,297.27	3,297.26	11.33	8.94	-76.53	26.29	-77.98	73.23	53.15	20.08	3.646		
3,400.00	3,399.66	3,397.22	3,397.15	11.68	9.22	-89.29	27.86	-81.09	76.39	55.70	20.70	3.691		
3,500.00	3,499.65	3,497.17	3,497.03	12.04	9.50	-91.94	29.43	-84.21	79.69	58.37	21.32	3.738		
3,600.00	3,599.65	3,597.11	3,596.92	12.39	9.78	-46.29	30.99	-87.33	82.83	60.89	21.95	3.774		
3,700.00	3,699.65	3,697.07	3,696.81	12.74	10.06	-63.10	32.56	-90.45	85.81	63.22	22.58	3.800		
3,800.00	3,799.65	3,797.02	3,796.71	13.10	10.34	-46.49	34.12	-93.56	88.76	65.55	23.22	3.823		
3,900.00	3,899.65	3,896.97	3,896.59	13.45	10.63	71.06	35.69	-96.68	91.84	67.99	23.85	3.850		
4,000.00	3,999.64	3,996.91	3,996.47	13.79	10.92	44.01	37.25	-99.80	94.73	70.24	24.50	3.867		
4,100.00	4,099.64	4,096.87	4,096.36	14.13	11.21	42.62	38.82	-102.91	97.35	72.20	25.14	3.872		
4,200.00	4,199.64	4,196.81	4,196.25	14.48	11.50	110.06	40.39	-106.03	100.25	74.46	25.79	3.887		
4,300.00	4,299.62	4,296.69	4,296.07	14.82	11.79	159.71	41.95	-109.15	104.94	78.50	26.44	3.970		
4,400.00	4,399.56	4,396.44	4,395.76	15.16	12.08	166.53	43.51	-112.26	111.71	84.63	27.08	4.125		
4,500.00	4,499.52	4,496.26	4,495.51	15.50	12.37	171.60	45.08	-115.37	117.70	89.97	27.72	4.246		
4,600.00	4,599.48	4,596.05	4,595.24	15.84	12.67	169.17	46.64	-118.48	124.00	95.64	28.36	4.372		
4,700.00	4,699.36	4,695.70	4,694.83	16.19	12.96	167.27	48.20	-121.59	132.19	103.18	29.01	4.557		
4,800.00	4,799.16	4,795.21	4,794.29	16.53	13.26	168.97	49.76	-124.69	141.81	112.15	29.66	4.781		
4,900.00	4,899.01	4,894.82	4,893.83	16.87	13.55	172.00	51.32	-127.80	150.50	120.19	30.31	4.966		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 404H - OH / 67083 - Plan 6 11-30-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis					Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,998.96	4,994.58	4,993.54	17.22	13.85	168.71	52.88	-130.91	157.27	126.32	30.95	5.081	
5,100.00	5,098.90	5,090.82	5,089.67	17.56	14.16	170.20	54.87	-134.87	165.11	133.52	31.59	5.226	
5,200.00	5,198.84	5,190.41	5,189.10	17.91	14.47	167.77	57.40	-139.90	174.07	141.81	32.26	5.396	
5,300.00	5,298.82	5,290.10	5,288.63	18.26	14.80	-157.54	59.93	-144.94	181.79	148.85	32.94	5.520	
5,400.00	5,398.81	5,389.97	5,388.34	18.60	15.13	-29.66	62.46	-149.98	186.80	153.19	33.61	5.558	
5,500.00	5,498.79	5,489.89	5,488.10	18.96	15.46	-27.16	65.00	-155.03	190.82	156.53	34.29	5.565	
5,600.00	5,598.78	5,589.81	5,587.86	19.31	15.79	-19.46	67.53	-160.08	194.92	159.95	34.97	5.574	
5,700.00	5,698.77	5,689.72	5,687.61	19.66	16.12	-20.91	70.07	-165.13	199.14	163.49	35.65	5.586	
5,800.00	5,798.76	5,789.62	5,787.35	20.01	16.46	-28.84	72.60	-170.18	203.63	167.29	36.34	5.604	
5,900.00	5,898.75	5,889.51	5,887.08	20.36	16.79	-30.54	75.14	-175.22	208.20	171.18	37.02	5.624	
6,000.00	5,998.74	5,989.42	5,986.83	20.72	17.13	-31.64	77.67	-180.27	212.62	174.92	37.71	5.639	
6,100.00	6,098.73	6,089.32	6,086.58	21.07	17.46	-31.60	80.21	-185.32	216.91	178.52	38.39	5.650	
6,200.00	6,198.72	6,189.23	6,186.32	21.42	17.80	-32.19	82.74	-190.37	221.20	182.12	39.08	5.661	
6,300.00	6,298.70	6,289.15	6,286.08	21.77	18.13	-30.61	85.28	-195.42	225.31	185.55	39.76	5.667	
6,400.00	6,398.69	6,389.07	6,385.84	22.13	18.47	21.40	87.81	-200.46	229.34	188.89	40.45	5.670	
6,500.00	6,498.67	6,488.95	6,485.57	22.47	18.81	50.54	90.35	-205.51	233.52	192.37	41.15	5.675	
6,600.00	6,598.65	6,588.82	6,585.27	22.82	19.14	88.68	92.88	-210.56	238.08	196.24	41.84	5.690	
6,700.00	6,698.64	6,688.62	6,684.92	23.16	19.48	176.67	95.42	-215.60	244.25	201.72	42.53	5.743	
6,800.00	6,798.64	6,788.41	6,784.55	23.51	19.82	-156.97	97.95	-220.64	250.71	207.49	43.21	5.802	
6,900.00	6,898.64	6,888.22	6,884.19	23.86	20.16	-147.37	100.48	-225.68	256.95	213.05	43.90	5.853	
7,000.00	6,998.64	6,988.03	6,983.84	24.20	20.50	-171.59	103.01	-230.73	263.07	218.49	44.58	5.901	
7,100.00	7,098.63	7,087.85	7,083.50	24.55	20.84	148.19	105.55	-235.77	269.10	223.83	45.27	5.945	
7,200.00	7,198.63	7,187.65	7,183.15	24.89	21.18	144.04	108.08	-240.81	275.26	229.30	45.96	5.990	
7,300.00	7,298.63	7,287.45	7,282.78	25.23	21.52	149.54	110.61	-245.86	281.53	234.88	46.64	6.036	
7,400.00	7,398.63	7,387.26	7,382.43	25.58	21.86	141.58	113.15	-250.90	287.68	240.35	47.33	6.078	
7,500.00	7,498.62	7,487.06	7,482.08	25.92	22.20	133.02	115.68	-255.94	293.84	245.81	48.02	6.119	
7,600.00	7,598.62	7,586.86	7,581.71	26.27	22.54	126.78	118.21	-260.98	300.13	251.41	48.71	6.161	
7,700.00	7,698.61	7,686.62	7,681.32	26.62	22.88	128.73	120.74	-266.03	306.72	257.31	49.41	6.208	
7,800.00	7,798.59	7,786.39	7,780.92	26.96	23.22	128.98	123.27	-271.07	313.36	263.25	50.10	6.254	
7,900.00	7,898.58	7,886.16	7,880.53	27.31	23.56	141.91	125.81	-276.11	319.99	269.20	50.79	6.300	
8,000.00	7,998.58	7,985.97	7,980.19	27.66	23.90	-101.04	128.34	-281.15	326.05	274.56	51.49	6.333	
8,100.00	8,098.58	8,085.82	8,079.87	28.01	24.25	-79.96	130.87	-286.20	331.60	279.43	52.18	6.355	
8,200.00	8,198.58	8,185.66	8,179.56	28.36	24.59	-76.61	133.41	-291.24	337.12	284.26	52.87	6.377	
8,300.00	8,298.58	8,285.51	8,279.25	28.71	24.93	3.26	135.94	-296.29	342.62	289.06	53.56	6.397	
8,400.00	8,398.57	8,385.37	8,378.94	29.06	25.27	55.13	138.47	-301.33	348.00	293.74	54.25	6.414	
8,500.00	8,498.57	8,485.22	8,478.63	29.40	25.62	71.30	141.01	-306.38	353.38	298.43	54.95	6.431	
8,600.00	8,598.57	8,585.07	8,578.32	29.75	25.96	68.16	143.54	-311.42	358.72	303.08	55.64	6.447	
8,700.00	8,698.56	8,684.92	8,678.02	30.10	26.30	65.40	146.08	-316.47	363.91	307.58	56.34	6.459	
8,800.00	8,798.55	8,784.79	8,777.72	30.45	26.65	58.18	148.61	-321.51	368.90	311.86	57.03	6.468	
8,900.00	8,898.54	8,884.65	8,877.43	30.80	26.99	62.25	151.14	-326.56	373.86	316.13	57.73	6.476	
9,000.00	8,998.54	8,984.51	8,977.13	31.15	27.34	67.76	153.68	-331.60	379.01	320.59	58.43	6.487	
9,100.00	9,098.53	9,084.36	9,076.82	31.49	27.68	77.22	156.21	-336.65	384.36	325.24	59.12	6.501	
9,200.00	9,198.53	9,184.20	9,176.50	31.84	28.02	87.26	158.75	-341.69	389.87	330.05	59.82	6.517	
9,300.00	9,298.52	9,284.03	9,276.17	32.19	28.37	104.67	161.28	-346.74	395.57	335.05	60.52	6.537	
9,400.00	9,398.52	9,383.84	9,375.82	32.54	28.71	130.08	163.81	-351.78	401.65	340.44	61.21	6.562	
9,500.00	9,498.51	9,483.64	9,475.46	32.89	29.06	130.70	166.34	-356.82	407.91	346.00	61.90	6.589	
9,600.00	9,598.51	9,583.46	9,575.12	33.23	29.40	-119.19	168.88	-361.87	413.95	351.35	62.60	6.613	
9,700.00	9,698.51	9,683.29	9,674.79	33.58	29.75	-80.66	171.41	-366.91	419.66	356.37	63.29	6.631	
9,800.00	9,798.50	9,783.15	9,774.49	33.93	30.09	-62.39	173.95	-371.96	424.87	360.89	63.98	6.641	
9,900.00	9,898.48	9,883.02	9,874.20	34.28	30.44	-65.92	176.48	-377.00	429.74	365.07	64.67	6.645	
10,000.00	9,998.47	9,982.86	9,973.88	34.63	30.78	-118.81	179.01	-382.05	435.25	369.89	65.36	6.659	
10,100.00	10,098.45	10,082.59	10,073.46	34.98	31.13	-160.33	181.54	-387.09	442.51	376.45	66.05	6.699	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 404H - OH / 67083 - Plan 6 11-30-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.00	10,198.42	10,182.28	10,172.99	35.33	31.47	-152.72	184.07	-392.12	450.31	383.57	66.75	6.747	
10,300.00	10,298.42	10,282.08	10,272.63	35.68	31.82	-132.32	186.61	-397.17	456.63	389.19	67.44	6.771	
10,400.00	10,398.42	10,381.92	10,372.31	36.03	32.16	-38.90	189.14	-402.21	462.33	394.20	68.13	6.786	
10,500.00	10,498.42	10,481.78	10,472.00	36.38	32.51	58.45	191.67	-407.26	467.59	398.76	68.83	6.793	
10,600.00	10,598.41	10,581.64	10,571.70	36.72	32.86	70.33	194.21	-412.30	472.75	403.22	69.53	6.799	
10,700.00	10,698.40	10,681.47	10,671.38	37.07	33.20	93.47	196.74	-417.35	478.30	408.07	70.23	6.811	
10,800.00	10,798.39	10,781.31	10,771.05	37.42	33.55	79.03	199.28	-422.39	483.78	412.85	70.92	6.821	
10,900.00	10,898.37	10,881.14	10,870.72	37.77	33.89	77.79	201.81	-427.44	489.15	417.53	71.62	6.829	
11,000.00	10,998.36	10,981.01	10,970.44	38.12	34.24	34.86	204.34	-432.48	493.94	421.62	72.32	6.830	
11,100.00	11,098.34	11,080.93	11,070.20	38.47	34.59	11.38	206.88	-437.53	497.92	424.90	73.02	6.819	
11,200.00	11,198.33	11,180.84	11,169.95	38.82	34.93	20.33	209.41	-442.58	502.10	428.38	73.72	6.811	
11,300.00	11,298.32	11,280.74	11,269.68	39.17	35.28	1.95	211.95	-447.63	506.65	432.24	74.42	6.808	
11,400.00	11,398.31	11,380.63	11,369.42	39.52	35.63	-19.33	214.48	-452.67	511.14	436.03	75.11	6.805	
11,500.00	11,498.30	11,480.56	11,469.18	39.87	35.97	-22.23	217.02	-457.72	515.00	439.19	75.81	6.793	
11,600.00	11,598.26	11,580.50	11,568.97	40.22	36.32	-18.22	219.56	-462.77	518.22	441.71	76.51	6.774	
11,700.00	11,698.13	11,693.62	11,681.96	40.57	36.70	-56.53	221.87	-467.39	519.20	441.95	77.25	6.721	
11,800.00	11,797.26	11,808.36	11,796.68	40.92	37.01	-50.30	222.71	-469.04	513.96	436.09	77.87	6.600	
11,900.00	11,894.04	11,905.72	11,894.04	41.25	37.03	-43.12	222.71	-469.05	496.00	417.83	78.17	6.345	
12,000.00	11,984.36	11,987.83	11,976.14	41.58	37.08	-56.03	223.43	-469.05	467.04	388.73	78.30	5.964	
12,100.00	12,063.58	12,056.04	12,043.75	41.88	37.21	-69.22	232.04	-469.11	438.46	360.37	78.09	5.615	
12,200.00	12,127.93	12,127.47	12,112.47	42.16	37.37	-83.48	251.27	-469.24	419.10	341.81	77.30	5.422	
12,234.98	12,146.24	12,153.52	12,136.71	42.25	37.44	-88.49	260.80	-469.31	417.27	340.41	76.85	5.429	
12,300.00	12,174.23	12,203.82	12,181.88	42.41	37.57	-95.98	282.89	-469.46	422.97	347.11	75.86	5.575	
12,400.00	12,207.18	12,289.69	12,252.78	42.64	37.79	-103.86	331.13	-469.80	456.10	381.65	74.46	6.126	
12,500.00	12,226.06	12,388.32	12,322.02	42.85	38.04	-106.37	401.11	-470.28	501.03	427.53	73.50	6.817	
12,600.00	12,231.93	12,506.21	12,383.83	43.07	38.32	-108.76	501.15	-470.97	548.93	475.64	73.29	7.490	
12,700.00	12,232.01	12,650.12	12,423.35	43.31	38.63	-110.35	638.96	-471.92	592.20	517.86	74.34	7.966	
12,800.00	12,232.36	12,771.18	12,427.10	46.60	38.87	-108.76	759.84	-472.76	620.50	544.38	76.13	8.151	
12,900.00	12,231.44	12,868.70	12,426.80	46.64	39.10	-108.14	857.36	-473.44	641.71	564.96	76.76	8.360	
13,000.00	12,231.18	12,966.50	12,426.50	46.69	39.37	-107.44	955.15	-474.11	661.60	584.12	77.48	8.539	
13,100.00	12,230.71	13,064.91	12,426.19	46.74	39.69	-106.90	1,053.57	-474.79	678.59	600.31	78.28	8.669	
13,200.00	12,230.03	13,163.85	12,425.88	46.79	40.06	-106.50	1,152.50	-475.48	692.62	613.49	79.14	8.752	
13,300.00	12,229.13	13,263.19	12,425.58	46.86	40.48	-106.23	1,251.84	-476.16	703.67	623.62	80.06	8.790	
13,400.00	12,228.02	13,362.85	12,425.27	46.94	40.95	-106.08	1,351.50	-476.85	711.72	630.68	81.04	8.783	
13,500.00	12,226.71	13,462.72	12,424.96	47.07	41.46	-106.04	1,451.37	-477.55	716.74	634.67	82.07	8.733	
13,600.00	12,225.18	13,562.70	12,424.65	47.30	42.03	-106.11	1,551.34	-478.24	718.74	635.59	83.15	8.644	
13,700.00	12,223.54	13,662.69	12,424.34	47.68	42.64	-106.21	1,651.32	-478.93	719.13	634.85	84.28	8.532	
13,800.00	12,221.91	13,762.68	12,424.03	48.18	43.29	-106.31	1,751.31	-479.62	719.52	634.04	85.49	8.417	
13,900.00	12,221.16	13,862.68	12,423.72	48.74	43.99	-106.35	1,851.31	-480.31	719.67	632.90	86.77	8.294	
14,000.00	12,220.99	13,962.68	12,423.41	49.34	44.73	-106.34	1,951.30	-481.00	719.66	631.51	88.14	8.165	
14,100.00	12,220.82	14,062.68	12,423.10	49.99	45.51	-106.32	2,051.30	-481.70	719.65	630.07	89.57	8.034	
14,200.00	12,220.64	14,162.68	12,422.79	50.66	46.33	-106.31	2,151.30	-482.39	719.64	628.58	91.06	7.903	
14,300.00	12,220.47	14,262.68	12,422.48	51.36	47.19	-106.30	2,251.30	-483.08	719.63	627.02	92.60	7.771	
14,400.00	12,220.29	14,362.68	12,422.17	52.08	48.07	-106.29	2,351.29	-483.77	719.62	625.42	94.20	7.640	
14,500.00	12,220.12	14,462.68	12,421.86	52.83	49.00	-106.28	2,451.29	-484.46	719.61	623.77	95.84	7.509	
14,600.00	12,219.94	14,562.67	12,421.55	53.60	49.95	-106.27	2,551.29	-485.15	719.60	622.07	97.52	7.379	
14,700.00	12,219.77	14,662.67	12,421.24	54.40	50.93	-106.26	2,651.28	-485.85	719.59	620.33	99.26	7.250	
14,800.00	12,219.59	14,762.67	12,420.93	55.21	51.93	-106.25	2,751.28	-486.54	719.57	618.55	101.03	7.122	
14,900.00	12,219.42	14,862.67	12,420.62	56.04	52.96	-106.24	2,851.28	-487.23	719.56	616.72	102.84	6.997	
15,000.00	12,219.24	14,962.67	12,420.31	56.89	54.01	-106.23	2,951.28	-487.92	719.55	614.86	104.69	6.873	
15,100.00	12,219.07	15,062.67	12,420.00	57.76	55.09	-106.21	3,051.27	-488.61	719.54	612.97	106.58	6.751	
15,200.00	12,218.90	15,162.67	12,419.68	58.64	56.18	-106.20	3,151.27	-489.31	719.53	611.04	108.50	6.632	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 404H - OH / 67083 - Plan 6 11-30-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,300.00	12,218.72	15,262.67	12,419.37	59.54	57.29	-106.19	3,251.27	-490.00	719.52	609.08	110.45	6.515	
15,400.00	12,218.55	15,362.67	12,419.06	60.46	58.42	-106.18	3,351.26	-490.69	719.51	607.09	112.43	6.400	
15,500.00	12,218.37	15,462.67	12,418.75	61.39	59.56	-106.17	3,451.26	-491.38	719.50	605.07	114.44	6.287	
15,600.00	12,218.20	15,562.67	12,418.44	62.33	60.72	-106.16	3,551.26	-492.07	719.49	603.02	116.47	6.177	
15,700.00	12,218.02	15,662.67	12,418.13	63.29	61.89	-106.15	3,651.25	-492.76	719.48	600.95	118.53	6.070	
15,800.00	12,217.85	15,762.67	12,417.82	64.25	63.08	-106.14	3,751.25	-493.46	719.47	598.85	120.62	5.965	
15,900.00	12,217.67	15,862.67	12,417.51	65.24	64.27	-106.13	3,851.25	-494.15	719.46	596.73	122.73	5.862	
16,000.00	12,217.50	15,962.67	12,417.20	66.23	65.48	-106.12	3,951.25	-494.84	719.45	594.59	124.86	5.762	
16,100.00	12,217.33	16,062.67	12,416.89	67.23	66.70	-106.10	4,051.24	-495.53	719.44	592.43	127.01	5.664	
16,200.00	12,217.15	16,162.67	12,416.58	68.24	67.93	-106.09	4,151.24	-496.22	719.43	590.25	129.19	5.569	
16,300.00	12,216.98	16,262.67	12,416.27	69.27	69.16	-106.08	4,251.24	-496.92	719.42	588.04	131.38	5.476	
16,400.00	12,216.80	16,362.67	12,415.96	70.30	70.41	-106.07	4,351.23	-497.61	719.41	585.83	133.58	5.385	
16,500.00	12,216.63	16,462.67	12,415.65	71.34	71.66	-106.06	4,451.23	-498.30	719.40	583.59	135.81	5.297	
16,600.00	12,216.45	16,562.67	12,415.34	72.39	72.92	-106.05	4,551.23	-498.99	719.39	581.34	138.05	5.211	
16,700.00	12,216.28	16,662.67	12,415.03	73.45	74.19	-106.04	4,651.22	-499.68	719.38	579.07	140.31	5.127	
16,800.00	12,216.10	16,762.67	12,414.72	74.52	75.47	-106.03	4,751.22	-500.37	719.37	576.79	142.58	5.045	
16,900.00	12,215.93	16,862.67	12,414.41	75.60	76.75	-106.02	4,851.22	-501.07	719.36	574.49	144.87	4.966	
17,000.00	12,215.75	16,962.67	12,414.10	76.68	78.03	-106.01	4,951.22	-501.76	719.35	572.18	147.17	4.888	
17,100.00	12,215.58	17,062.67	12,413.79	77.77	79.33	-105.99	5,051.21	-502.45	719.34	569.86	149.48	4.812	
17,200.00	12,215.41	17,162.67	12,413.48	78.86	80.62	-105.98	5,151.21	-503.14	719.33	567.52	151.81	4.738	
17,300.00	12,215.23	17,262.67	12,413.17	79.97	81.93	-105.97	5,251.21	-503.83	719.32	565.17	154.15	4.666	
17,400.00	12,215.06	17,362.67	12,412.86	81.07	83.23	-105.96	5,351.20	-504.53	719.31	562.82	156.49	4.596	
17,500.00	12,214.88	17,462.67	12,412.55	82.19	84.55	-105.95	5,451.20	-505.22	719.30	560.45	158.85	4.528	
17,600.00	12,214.71	17,562.67	12,412.24	83.31	85.86	-105.94	5,551.20	-505.91	719.29	558.07	161.22	4.461	
17,700.00	12,214.53	17,662.67	12,411.93	84.44	87.18	-105.93	5,651.19	-506.60	719.28	555.68	163.60	4.397	
17,800.00	12,214.36	17,762.67	12,411.62	85.57	88.51	-105.92	5,751.19	-507.29	719.27	553.28	165.99	4.333	
17,900.00	12,214.18	17,862.67	12,411.31	86.70	89.84	-105.91	5,851.19	-507.98	719.26	550.87	168.39	4.271	
18,000.00	12,214.01	17,962.67	12,411.00	87.84	91.17	-105.90	5,951.19	-508.68	719.25	548.46	170.80	4.211	
18,100.00	12,213.83	18,062.67	12,410.69	88.99	92.50	-105.88	6,051.18	-509.37	719.24	546.03	173.21	4.152	
18,200.00	12,213.66	18,162.67	12,410.38	90.14	93.84	-105.87	6,151.18	-510.06	719.23	543.60	175.63	4.095	
18,300.00	12,213.49	18,262.67	12,410.07	91.30	95.18	-105.86	6,251.18	-510.75	719.22	541.16	178.06	4.039	
18,400.00	12,213.31	18,362.67	12,409.76	92.45	96.53	-105.85	6,351.17	-511.44	719.21	538.71	180.50	3.985	
18,500.00	12,213.14	18,462.67	12,409.45	93.62	97.87	-105.84	6,451.17	-512.14	719.20	536.26	182.95	3.931	
18,600.00	12,212.96	18,562.67	12,409.14	94.78	99.22	-105.83	6,551.17	-512.83	719.19	533.80	185.40	3.879	
18,700.00	12,212.79	18,662.67	12,408.83	95.95	100.58	-105.82	6,651.17	-513.52	719.19	531.33	187.86	3.828	
18,800.00	12,212.61	18,762.67	12,408.52	97.13	101.93	-105.81	6,751.16	-514.21	719.18	528.85	190.32	3.779	
18,900.00	12,212.44	18,862.67	12,408.21	98.31	103.29	-105.80	6,851.16	-514.90	719.17	526.37	192.79	3.730	
19,000.00	12,212.26	18,962.67	12,407.90	99.49	104.65	-105.79	6,951.16	-515.59	719.16	523.89	195.27	3.683	
19,100.00	12,212.09	19,062.67	12,407.59	100.67	106.01	-105.77	7,051.15	-516.29	719.15	521.40	197.75	3.637	
19,200.00	12,211.91	19,162.67	12,407.28	101.86	107.37	-105.76	7,151.15	-516.98	719.14	518.90	200.24	3.591	
19,300.00	12,211.74	19,262.67	12,406.97	103.05	108.74	-105.75	7,251.15	-517.67	719.13	516.40	202.73	3.547	
19,400.00	12,211.57	19,362.67	12,406.66	104.24	110.10	-105.74	7,351.14	-518.36	719.12	513.89	205.23	3.504	
19,500.00	12,211.39	19,462.67	12,406.35	105.44	111.47	-105.73	7,451.14	-519.05	719.11	511.38	207.73	3.462	
19,600.00	12,211.22	19,562.67	12,406.04	106.64	112.84	-105.72	7,551.14	-519.75	719.10	508.86	210.24	3.420	
19,700.00	12,211.04	19,662.67	12,405.73	107.84	114.22	-105.71	7,651.14	-520.44	719.09	506.34	212.76	3.380	
19,800.00	12,210.87	19,762.67	12,405.42	109.04	115.59	-105.70	7,751.13	-521.13	719.08	503.81	215.27	3.340	
19,900.00	12,210.69	19,862.67	12,405.11	110.25	116.97	-105.69	7,851.13	-521.82	719.07	501.28	217.79	3.302	
20,000.00	12,210.52	19,962.67	12,404.80	111.46	118.34	-105.68	7,951.13	-522.51	719.06	498.75	220.32	3.264	
20,100.00	12,210.34	20,062.67	12,404.49	112.67	119.72	-105.66	8,051.12	-523.20	719.06	496.21	222.85	3.227	
20,200.00	12,210.17	20,162.67	12,404.18	113.88	121.10	-105.65	8,151.12	-523.90	719.05	493.66	225.38	3.190	
20,300.00	12,209.99	20,262.67	12,403.87	115.10	122.48	-105.64	8,251.12	-524.59	719.04	491.12	227.92	3.155	
20,400.00	12,209.82	20,362.67	12,403.56	116.31	123.87	-105.63	8,351.11	-525.28	719.03	488.57	230.46	3.120	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 404H - OH / 67083 - Plan 6 11-30-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toelface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,500.00	12,209.65	20,462.67	12,403.25	117.53	125.25	-105.62	8,451.11	-525.97	719.02	486.02	233.00	3.086	
20,600.00	12,209.47	20,562.67	12,402.94	118.75	126.64	-105.61	8,551.11	-526.66	719.01	483.46	235.55	3.052	
20,700.00	12,209.30	20,662.67	12,402.63	119.98	128.02	-105.60	8,651.11	-527.36	719.00	480.90	238.10	3.020	
20,800.00	12,209.12	20,762.67	12,402.32	121.20	129.41	-105.59	8,751.10	-528.05	718.99	478.33	240.66	2.988	
20,900.00	12,208.95	20,862.67	12,402.01	122.43	130.80	-105.58	8,851.10	-528.74	718.98	475.77	243.22	2.956	
21,000.00	12,208.77	20,962.67	12,401.70	123.66	132.19	-105.57	8,951.10	-529.43	718.97	473.20	245.78	2.925	
21,100.00	12,208.60	21,062.67	12,401.39	124.89	133.58	-105.55	9,051.09	-530.12	718.97	470.63	248.34	2.895	
21,200.00	12,208.42	21,162.67	12,401.08	126.12	134.97	-105.54	9,151.09	-530.81	718.96	468.05	250.91	2.865	
21,300.00	12,208.25	21,262.67	12,400.77	127.35	136.36	-105.53	9,251.09	-531.51	718.95	465.47	253.47	2.836	
21,400.00	12,208.07	21,362.67	12,400.46	128.59	137.76	-105.52	9,351.09	-532.20	718.94	462.89	256.05	2.808	
21,500.00	12,207.90	21,462.67	12,400.15	129.82	139.15	-105.51	9,451.08	-532.89	718.93	460.31	258.62	2.780	
21,600.00	12,207.73	21,562.67	12,399.84	131.06	140.55	-105.50	9,551.08	-533.58	718.92	457.72	261.20	2.752	
21,700.00	12,207.55	21,662.67	12,399.53	132.30	141.94	-105.49	9,651.08	-534.27	718.91	455.14	263.78	2.725	
21,800.00	12,207.38	21,762.67	12,399.21	133.54	143.34	-105.48	9,751.07	-534.96	718.90	452.54	266.36	2.699	
21,900.00	12,207.20	21,862.67	12,398.90	134.78	144.74	-105.47	9,851.07	-535.66	718.90	449.95	268.94	2.673	
22,000.00	12,207.03	21,962.67	12,398.59	136.03	146.14	-105.45	9,951.07	-536.35	718.89	447.36	271.53	2.648	
22,100.00	12,206.85	22,062.67	12,398.28	137.27	147.54	-105.44	10,051.06	-537.04	718.88	444.76	274.12	2.622	
22,200.00	12,206.68	22,162.67	12,397.97	138.52	148.94	-105.43	10,151.06	-537.73	718.87	442.16	276.71	2.598	
22,300.00	12,206.50	22,262.67	12,397.66	139.76	150.34	-105.42	10,251.06	-538.42	718.86	439.56	279.30	2.574	
22,400.00	12,206.33	22,362.67	12,397.35	141.01	151.74	-105.41	10,351.06	-539.12	718.85	436.95	281.90	2.550	
22,500.00	12,206.16	22,462.67	12,397.04	142.26	153.14	-105.40	10,451.05	-539.81	718.85	434.35	284.50	2.527	
22,600.00	12,205.98	22,562.67	12,396.73	143.51	154.55	-105.39	10,551.05	-540.50	718.84	431.74	287.10	2.504	
22,700.00	12,205.81	22,662.67	12,396.42	144.76	155.95	-105.38	10,651.05	-541.19	718.83	429.13	289.70	2.481	
22,800.00	12,205.63	22,762.67	12,396.11	146.02	157.35	-105.37	10,751.04	-541.88	718.82	426.52	292.30	2.459	
22,900.00	12,205.46	22,862.67	12,395.80	147.27	158.76	-105.36	10,851.04	-542.57	718.81	423.90	294.91	2.437	
23,000.00	12,205.28	22,962.67	12,395.49	148.52	160.16	-105.34	10,951.04	-543.27	718.80	421.29	297.51	2.416	
23,100.00	12,205.11	23,062.67	12,395.18	149.78	161.57	-105.33	11,051.03	-543.96	718.79	418.67	300.12	2.395	
23,200.00	12,204.93	23,162.67	12,394.87	151.04	162.98	-105.32	11,151.03	-544.65	718.79	416.05	302.73	2.374	
23,249.34	12,204.85	23,211.83	12,394.72	151.66	163.67	-105.32	11,200.19	-544.99	718.78	414.76	304.02	2.364	
23,251.42	12,204.84	23,211.83	12,394.72	151.68	163.67	-105.32	11,200.19	-544.99	718.79	414.74	304.04	2.364 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 404H - OH / 67083 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 192-MWD+HRGM												Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	1.00	1.00	-90.67	-0.29	-25.05	25.07				
100.00	100.00	99.09	100.09	1.01	1.18	-103.96	0.54	-24.87	25.01	22.82	2.18	11.448	
200.00	199.98	199.16	200.12	1.08	1.62	-74.42	3.07	-24.32	24.62	21.94	2.68	9.178	
300.00	299.96	299.11	300.02	1.26	2.25	-56.54	6.07	-23.73	23.28	19.84	3.44	6.759	
379.55	379.51	378.57	379.46	1.46	2.57	-89.64	8.16	-23.48	22.80	18.89	3.91	5.833	
400.00	399.95	399.00	399.88	1.51	2.65	-98.68	8.66	-23.47	22.69	18.67	4.02	5.643 CC, ES	
500.00	499.92	498.94	499.79	1.79	2.98	-137.52	11.16	-23.57	24.26	19.70	4.56	5.323	
600.00	599.89	599.09	599.91	2.09	3.30	-141.87	13.69	-23.30	26.48	21.39	5.09	5.200	
700.00	699.85	699.00	699.79	2.41	3.62	-144.98	16.10	-22.89	28.72	23.09	5.63	5.102	
800.00	799.82	798.98	799.74	2.74	3.93	-148.36	18.35	-22.61	31.23	25.07	6.17	5.066	
900.00	899.80	898.99	899.73	3.07	4.22	-166.00	20.20	-22.30	32.81	26.11	6.70	4.896	
1,000.00	999.80	998.93	999.66	3.40	4.51	-174.10	21.78	-22.14	34.02	26.79	7.24	4.702	
1,100.00	1,099.80	1,098.85	1,099.57	3.74	4.80	-164.26	23.22	-22.16	35.18	27.40	7.78	4.523	
1,200.00	1,199.79	1,198.68	1,199.39	4.08	5.07	-126.95	24.69	-22.48	36.45	28.11	8.34	4.372	
1,300.00	1,299.79	1,298.63	1,299.33	4.43	5.32	-76.37	26.15	-23.24	37.83	28.95	8.88	4.261	
1,400.00	1,399.79	1,398.70	1,399.39	4.77	5.63	-39.08	27.54	-23.87	38.55	29.05	9.50	4.058	
1,500.00	1,499.78	1,498.54	1,499.21	5.11	5.92	-21.78	29.11	-24.51	38.69	28.61	10.08	3.839	
1,508.11	1,507.89	1,506.62	1,507.28	5.14	5.94	-20.23	29.25	-24.59	38.69	28.56	10.13	3.820	
1,600.00	1,599.77	1,597.46	1,598.08	5.45	6.24	-4.18	31.62	-26.38	39.70	28.96	10.75	3.695 SF	
1,700.00	1,699.75	1,697.14	1,697.64	5.79	6.57	10.13	34.36	-30.18	42.58	31.14	11.44	3.721	
1,800.00	1,799.74	1,797.15	1,797.54	6.13	6.82	6.95	36.30	-34.65	45.96	33.92	12.04	3.817	
1,900.00	1,899.73	1,897.10	1,897.36	6.47	7.05	7.04	38.18	-39.11	49.26	36.62	12.64	3.896	
2,000.00	1,999.72	1,997.30	1,997.45	6.81	7.24	27.21	39.25	-43.70	52.58	39.35	13.23	3.976	
2,100.00	2,099.71	2,097.57	2,097.62	7.15	7.39	56.17	38.79	-48.32	55.80	42.04	13.76	4.056	
2,200.00	2,199.71	2,197.56	2,197.49	7.49	7.52	33.51	37.63	-52.90	58.81	44.54	14.27	4.121	
2,300.00	2,299.70	2,297.46	2,297.29	7.83	7.67	27.20	36.56	-57.40	61.54	46.74	14.80	4.159	
2,400.00	2,399.69	2,397.24	2,396.97	8.18	7.87	38.87	36.77	-61.64	64.57	49.19	15.38	4.198	
2,500.00	2,499.69	2,497.08	2,496.72	8.52	8.10	52.28	37.57	-65.93	68.24	52.24	16.00	4.265	
2,600.00	2,599.68	2,596.99	2,596.53	8.87	8.35	43.00	38.44	-70.23	72.04	55.41	16.63	4.332	
2,700.00	2,699.68	2,696.91	2,696.36	9.21	8.60	23.08	39.47	-74.53	75.89	58.63	17.26	4.397	
2,800.00	2,799.68	2,796.88	2,796.24	9.56	8.86	-10.69	40.64	-78.73	79.68	61.79	17.89	4.453	
2,900.00	2,899.68	2,896.85	2,896.11	9.92	9.13	-42.96	41.92	-82.84	83.48	64.95	18.53	4.506	
3,000.00	2,999.68	2,996.91	2,996.08	10.27	9.41	-52.01	43.30	-86.82	87.32	68.16	19.16	4.557	
3,100.00	3,099.67	3,096.89	3,095.98	10.62	9.69	-46.33	44.80	-90.61	90.77	70.97	19.80	4.585	
3,200.00	3,199.67	3,196.93	3,195.93	10.98	9.99	-49.61	46.58	-94.26	94.09	73.65	20.44	4.603	
3,300.00	3,299.66	3,296.81	3,295.74	11.33	10.28	-64.84	48.53	-97.80	97.59	76.50	21.09	4.627	
3,400.00	3,399.66	3,396.85	3,395.68	11.68	10.59	-77.66	50.81	-101.24	101.24	79.50	21.74	4.657	
3,500.00	3,499.65	3,496.77	3,495.52	12.04	10.89	-80.20	53.43	-104.50	104.99	82.59	22.39	4.688	
3,600.00	3,599.65	3,596.30	3,594.95	12.39	11.21	-34.36	56.39	-107.81	108.89	85.82	23.07	4.721	
3,700.00	3,699.65	3,695.62	3,694.15	12.74	11.52	-51.10	59.27	-111.65	113.09	89.35	23.74	4.764	
3,800.00	3,799.65	3,795.76	3,794.17	13.10	11.84	-34.48	62.05	-115.72	117.40	92.98	24.42	4.807	
3,900.00	3,899.65	3,895.90	3,894.21	13.45	12.13	82.20	63.27	-120.09	121.71	96.64	25.07	4.855	
4,000.00	3,999.64	3,995.55	3,993.74	13.79	12.40	53.72	63.32	-124.94	125.97	100.27	25.69	4.902	
4,100.00	4,099.64	4,095.45	4,093.51	14.13	12.66	51.01	63.49	-129.92	130.09	103.76	26.33	4.941	
4,200.00	4,199.64	4,196.81	4,194.77	14.48	12.93	117.36	63.80	-134.55	134.12	107.14	26.97	4.972	
4,300.00	4,299.62	4,299.60	4,297.51	14.82	13.14	165.79	63.33	-137.41	137.97	110.41	27.57	5.005	
4,400.00	4,399.56	4,399.82	4,397.72	15.16	13.29	171.37	62.38	-138.88	142.51	114.42	28.09	5.073	
4,500.00	4,499.52	4,498.63	4,496.51	15.50	13.46	175.49	61.86	-140.85	146.85	118.21	28.64	5.128	
4,600.00	4,599.48	4,599.07	4,596.92	15.84	13.67	172.21	61.51	-143.14	151.82	122.61	29.21	5.198	
4,700.00	4,699.36	4,699.23	4,697.06	16.19	13.84	169.37	60.72	-144.91	158.07	128.32	29.75	5.313	
4,800.00	4,799.16	4,798.59	4,796.39	16.53	13.99	169.95	59.28	-146.99	165.85	135.58	30.27	5.479	
4,900.00	4,899.01	4,895.60	4,893.35	16.87	14.17	171.97	57.99	-149.73	173.42	142.60	30.82	5.627	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
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Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 404H - OH / 67083 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 192-MWD+HRGM												Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,998.96	4,990.88	4,988.52	17.22	14.45	167.96	57.78	-154.23	181.21	149.77	31.43	5.765	
5,100.00	5,098.90	5,089.12	5,086.56	17.56	14.79	168.97	58.88	-160.39	190.81	158.69	32.12	5.941	
5,200.00	5,198.84	5,188.37	5,185.60	17.91	15.12	166.14	60.40	-166.71	200.69	167.88	32.81	6.117	
5,300.00	5,298.82	5,287.86	5,284.87	18.26	15.45	-159.52	61.91	-173.15	209.44	175.95	33.49	6.254	
5,400.00	5,398.81	5,388.65	5,385.45	18.60	15.79	-31.83	63.82	-179.36	215.33	181.15	34.18	6.300	
5,500.00	5,498.79	5,488.96	5,485.56	18.96	16.13	-29.30	66.48	-184.96	219.88	185.01	34.87	6.306	
5,600.00	5,598.78	5,588.72	5,585.14	19.31	16.47	-21.52	69.34	-190.41	224.46	188.91	35.56	6.313	
5,700.00	5,698.77	5,688.99	5,685.22	19.66	16.81	-22.92	72.09	-195.83	229.08	192.82	36.25	6.319	
5,800.00	5,798.76	5,788.79	5,784.84	20.01	17.15	-30.84	74.67	-201.28	233.95	197.01	36.94	6.333	
5,900.00	5,898.75	5,889.67	5,885.55	20.36	17.49	-32.53	77.17	-206.56	238.67	201.03	37.64	6.341	
6,000.00	5,998.74	5,989.79	5,985.52	20.72	17.83	-33.62	79.55	-211.50	242.93	204.61	38.32	6.339	
6,100.00	6,098.73	6,088.03	6,083.59	21.07	18.16	-33.47	82.37	-216.47	247.32	208.32	39.00	6.342	
6,200.00	6,198.72	6,186.13	6,181.45	21.42	18.50	-33.72	86.48	-222.04	252.69	213.01	39.68	6.368	
6,300.00	6,298.70	6,286.36	6,281.42	21.77	18.85	-31.73	90.99	-227.66	257.94	217.55	40.39	6.386	
6,400.00	6,398.69	6,386.00	6,380.80	22.13	19.20	20.63	95.39	-233.32	263.14	222.04	41.09	6.404	
6,500.00	6,498.67	6,485.53	6,480.07	22.47	19.55	50.04	99.81	-239.00	268.54	226.73	41.81	6.423	
6,600.00	6,598.65	6,584.92	6,579.19	22.82	19.91	88.43	104.23	-244.84	274.49	231.97	42.53	6.455	
6,700.00	6,698.64	6,684.52	6,678.51	23.16	20.26	176.69	108.59	-250.80	282.16	238.93	43.23	6.527	
6,800.00	6,798.64	6,783.55	6,777.27	23.51	20.62	-156.67	113.01	-256.76	290.21	246.27	43.93	6.606	
6,900.00	6,898.64	6,883.23	6,876.65	23.86	20.98	-146.82	117.50	-262.96	298.24	253.60	44.64	6.681	
7,000.00	6,998.64	6,982.75	6,975.88	24.20	21.33	-170.82	121.84	-269.15	306.12	260.77	45.35	6.750	
7,100.00	7,098.63	7,081.85	7,074.69	24.55	21.69	149.18	126.35	-275.38	314.05	267.99	46.06	6.819	
7,200.00	7,198.63	7,181.42	7,173.94	24.89	22.06	145.24	131.00	-281.72	322.24	275.47	46.77	6.890	
7,300.00	7,298.63	7,281.42	7,273.64	25.23	22.42	150.92	135.53	-288.10	330.51	283.02	47.49	6.960	
7,400.00	7,398.63	7,383.50	7,375.45	25.58	22.79	143.07	139.54	-294.40	338.26	290.04	48.22	7.015	
7,500.00	7,498.62	7,483.43	7,475.14	25.92	23.15	134.49	142.77	-300.44	345.62	296.69	48.93	7.064	
7,600.00	7,598.62	7,583.70	7,575.18	26.27	23.50	128.19	145.77	-306.49	353.02	303.38	49.64	7.112	
7,700.00	7,698.61	7,684.50	7,675.77	26.62	23.86	130.07	148.67	-312.38	360.51	310.16	50.35	7.160	
7,800.00	7,798.59	7,785.68	7,776.75	26.96	24.21	130.25	151.38	-317.94	367.65	316.58	51.07	7.199	
7,900.00	7,898.58	7,886.44	7,877.35	27.31	24.56	143.10	153.98	-323.23	374.52	322.74	51.77	7.234	
8,000.00	7,998.58	7,987.34	7,978.09	27.66	24.91	-99.90	156.34	-328.20	380.37	327.91	52.47	7.250	
8,100.00	8,098.58	8,087.41	8,078.02	28.01	25.24	-78.86	158.60	-333.12	385.69	332.53	53.15	7.256	
8,200.00	8,198.58	8,188.02	8,178.49	28.36	25.58	-75.55	160.72	-337.91	390.77	336.92	53.84	7.257	
8,300.00	8,298.58	8,288.78	8,279.12	28.71	25.92	4.22	162.55	-342.68	395.68	341.15	54.53	7.256	
8,400.00	8,398.57	8,389.35	8,379.58	29.06	26.25	55.98	164.20	-347.23	400.21	345.00	55.22	7.248	
8,500.00	8,498.57	8,488.12	8,478.23	29.40	26.58	72.05	165.92	-351.68	404.80	348.91	55.89	7.242	
8,600.00	8,598.57	8,587.01	8,576.98	29.75	26.91	68.91	168.47	-356.15	409.68	353.10	56.58	7.241	
8,700.00	8,698.56	8,687.57	8,677.40	30.10	27.25	66.20	171.43	-360.58	414.47	357.20	57.27	7.237	
8,800.00	8,798.55	8,787.03	8,776.73	30.45	27.59	59.02	174.27	-364.89	418.95	360.99	57.96	7.228	
8,900.00	8,898.54	8,887.13	8,876.69	30.80	27.93	63.11	177.04	-369.35	423.48	364.83	58.65	7.220	
9,000.00	8,998.54	8,988.14	8,977.57	31.15	28.27	68.65	179.70	-373.72	428.04	368.69	59.35	7.212	
9,100.00	9,098.53	9,091.08	9,080.41	31.49	28.60	78.13	182.13	-377.73	432.27	372.22	60.05	7.199	
9,200.00	9,198.53	9,190.24	9,179.48	31.84	28.93	88.18	184.36	-381.29	436.36	375.64	60.72	7.186	
9,300.00	9,298.52	9,285.77	9,274.89	32.19	29.25	105.61	186.90	-385.31	441.36	379.98	61.38	7.190	
9,400.00	9,398.52	9,386.97	9,375.94	32.54	29.59	131.13	190.22	-389.60	447.06	384.98	62.08	7.202	
9,500.00	9,498.51	9,486.67	9,475.53	32.89	29.92	131.77	192.72	-393.66	452.43	389.66	62.76	7.208	
9,600.00	9,598.51	9,578.54	9,567.22	33.23	30.25	-118.17	195.01	-398.86	458.98	395.56	63.42	7.237	
9,700.00	9,698.51	9,678.86	9,667.31	33.58	30.62	-79.67	197.77	-404.99	465.73	401.59	64.14	7.261	
9,800.00	9,798.50	9,776.38	9,764.61	33.93	30.98	-61.39	200.87	-410.95	472.15	407.32	64.83	7.283	
9,900.00	9,898.48	9,875.05	9,863.00	34.28	31.35	-64.92	204.03	-417.64	478.84	413.30	65.54	7.306	
10,000.00	9,998.47	9,979.71	9,967.40	34.63	31.76	-117.83	207.10	-424.18	485.58	419.27	66.31	7.323	
10,100.00	10,098.45	10,084.10	10,071.61	34.98	32.14	-159.38	209.69	-429.77	493.08	426.02	67.06	7.353	

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Anticollision Report



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Offset Design Wild Salsa Fed Com - 404H - OH / 67083 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 192-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.00	10,198.42	10,187.36	10,174.73	35.33	32.48	-151.91	211.10	-434.88	500.27	432.52	67.75	7.384	
10,300.00	10,298.42	10,292.87	10,280.14	35.68	32.80	-131.69	211.69	-439.55	505.19	436.76	68.43	7.383	
10,400.00	10,398.42	10,392.90	10,380.10	36.03	33.12	-38.48	211.68	-443.38	508.73	439.63	69.09	7.363	
10,500.00	10,498.42	10,491.26	10,478.38	36.38	33.43	58.67	211.83	-447.37	512.10	442.34	69.76	7.341	
10,600.00	10,598.41	10,596.23	10,583.27	36.72	33.74	70.35	211.92	-451.37	515.11	444.68	70.42	7.314	
10,700.00	10,698.40	10,700.27	10,687.26	37.07	34.00	93.29	211.56	-454.40	517.52	446.48	71.04	7.285	
10,800.00	10,798.39	10,798.61	10,785.56	37.42	34.22	78.60	210.70	-457.14	519.52	447.90	71.62	7.254	
10,900.00	10,898.37	10,887.37	10,874.25	37.77	34.46	77.14	210.65	-460.70	522.84	450.64	72.20	7.241	
11,000.00	10,998.36	10,993.29	10,980.07	38.12	34.78	34.01	211.05	-465.22	526.01	453.12	72.89	7.217	
11,100.00	11,098.34	11,097.51	11,084.24	38.47	35.07	10.33	210.86	-468.68	527.28	453.75	73.53	7.171	
11,200.00	11,198.33	11,198.73	11,185.41	38.82	35.34	19.19	211.36	-471.44	528.48	454.32	74.16	7.127	
11,300.00	11,298.32	11,304.70	11,291.36	39.17	35.60	0.87	212.89	-472.96	529.28	454.52	74.76	7.080	
11,400.00	11,398.31	11,405.85	11,392.50	39.52	35.79	-20.31	214.38	-473.36	529.08	453.79	75.29	7.027	
11,500.00	11,498.30	11,505.48	11,492.11	39.87	35.99	-23.12	215.92	-474.06	528.58	452.74	75.84	6.970	
11,600.00	11,598.26	11,605.73	11,592.35	40.22	36.20	-19.04	217.11	-474.70	527.22	450.82	76.40	6.901	
11,700.00	11,698.13	11,705.80	11,692.41	40.57	36.42	-57.41	217.67	-475.70	524.80	447.84	76.96	6.819	
11,774.12	11,771.71	11,734.00	11,720.62	40.83	36.48	-50.98	217.64	-476.05	522.31	445.18	77.14	6.771	
11,800.00	11,797.26	11,734.00	11,720.62	40.92	36.48	-49.95	217.64	-476.05	524.03	447.02	77.00	6.805	
11,900.00	11,894.04	11,734.00	11,720.62	41.25	36.48	-39.65	217.64	-476.05	529.86	454.37	75.49	7.019	
12,000.00	11,984.36	11,734.00	11,720.62	41.58	36.48	-44.93	217.64	-476.05	540.57	467.92	72.65	7.440	
12,100.00	12,063.58	11,734.00	11,720.62	41.88	36.48	-48.39	217.64	-476.05	559.38	490.26	69.12	8.093	
12,200.00	12,127.93	11,734.00	11,720.62	42.16	36.48	-49.86	217.64	-476.05	587.78	522.04	65.74	8.941	
12,300.00	12,174.23	11,734.00	11,720.62	42.41	36.48	-48.77	217.64	-476.05	629.80	566.43	63.37	9.938	
12,400.00	12,207.18	11,734.00	11,720.62	42.64	36.48	-43.81	217.64	-476.05	688.88	626.64	62.24	11.068	
12,500.00	12,226.06	11,734.00	11,720.62	42.85	36.48	-38.70	217.64	-476.05	752.40	690.69	61.72	12.191	
12,600.00	12,231.93	11,734.00	11,720.62	43.07	36.48	-35.29	217.64	-476.05	816.66	755.20	61.47	13.286	
12,700.00	12,232.01	11,734.00	11,720.62	43.31	36.48	-36.02	217.64	-476.05	884.23	822.93	61.29	14.426	
12,800.00	12,232.36	11,734.00	11,720.62	46.60	36.48	-41.22	217.64	-476.05	954.26	892.72	61.54	15.507	
12,900.00	12,231.44	11,734.00	11,720.62	46.64	36.48	-41.89	217.64	-476.05	1,025.50	963.97	61.54	16.665	
13,000.00	12,231.18	11,734.00	11,720.62	46.69	36.48	-43.36	217.64	-476.05	1,100.99	1,039.42	61.58	17.880	
13,100.00	12,230.71	11,734.00	11,720.62	46.74	36.48	-44.90	217.64	-476.05	1,178.72	1,117.07	61.65	19.120	
13,200.00	12,230.03	11,734.00	11,720.62	46.79	36.48	-46.48	217.64	-476.05	1,258.19	1,196.44	61.75	20.376	
13,300.00	12,229.13	11,734.00	11,720.62	46.86	36.48	-48.09	217.64	-476.05	1,339.02	1,277.14	61.88	21.639	
13,400.00	12,228.02	11,734.00	11,720.62	46.94	36.48	-49.71	217.64	-476.05	1,420.91	1,358.87	62.04	22.902	
13,500.00	12,226.71	11,734.00	11,720.62	47.07	36.48	-51.32	217.64	-476.05	1,503.60	1,441.36	62.24	24.159	
13,600.00	12,225.18	11,734.00	11,720.62	47.30	36.48	-52.91	217.64	-476.05	1,586.89	1,524.43	62.46	25.407	
13,700.00	12,223.54	11,734.00	11,720.62	47.68	36.48	-52.95	217.64	-476.05	1,671.28	1,608.57	62.71	26.652	
13,800.00	12,221.91	11,734.00	11,720.62	48.18	36.48	-52.95	217.64	-476.05	1,757.31	1,694.33	62.97	27.905	
13,900.00	12,221.16	11,734.00	11,720.62	48.74	36.48	-54.17	217.64	-476.05	1,845.00	1,781.75	63.25	29.171	
14,000.00	12,220.99	11,734.00	11,720.62	49.34	36.48	-54.17	217.64	-476.05	1,934.03	1,870.51	63.52	30.445	
14,100.00	12,220.82	11,734.00	11,720.62	49.99	36.48	-54.17	217.64	-476.05	2,024.09	1,960.29	63.80	31.725	
14,200.00	12,220.64	11,734.00	11,720.62	50.66	36.48	-54.17	217.64	-476.05	2,115.05	2,050.97	64.08	33.009	
14,300.00	12,220.47	11,734.00	11,720.62	51.36	36.48	-54.17	217.64	-476.05	2,206.78	2,142.44	64.34	34.297	
14,400.00	12,220.29	11,734.00	11,720.62	52.08	36.48	-54.17	217.64	-476.05	2,299.21	2,234.60	64.61	35.588	
14,500.00	12,220.12	11,734.00	11,720.62	52.83	36.48	-54.17	217.64	-476.05	2,392.25	2,327.38	64.86	36.881	
14,600.00	12,219.94	11,734.00	11,720.62	53.60	36.48	-54.17	217.64	-476.05	2,485.82	2,420.71	65.11	38.178	
14,700.00	12,219.77	11,734.00	11,720.62	54.40	36.48	-54.17	217.64	-476.05	2,579.88	2,514.53	65.35	39.476	
14,800.00	12,219.59	11,734.00	11,720.62	55.21	36.48	-54.17	217.64	-476.05	2,674.37	2,608.78	65.59	40.776	
14,900.00	12,219.42	11,734.00	11,720.62	56.04	36.48	-54.17	217.64	-476.05	2,769.25	2,703.43	65.81	42.077	
15,000.00	12,219.24	11,734.00	11,720.62	56.89	36.48	-54.17	217.64	-476.05	2,864.47	2,798.44	66.03	43.380	
15,100.00	12,219.07	11,734.00	11,720.62	57.76	36.48	-54.17	217.64	-476.05	2,960.01	2,893.77	66.25	44.682	
15,200.00	12,218.90	11,734.00	11,720.62	58.64	36.48	-54.17	217.64	-476.05	3,055.84	2,989.38	66.45	45.986	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 404H - OH / 67083 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 192-MWD+HRGM												Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	12,218.72	11,734.00	11,720.62	59.54	36.48	-54.17	217.64	-476.05	3,151.92	3,085.27	66.65	47.289	
15,400.00	12,218.55	11,734.00	11,720.62	60.46	36.48	-54.17	217.64	-476.05	3,248.24	3,181.40	66.85	48.592	
15,500.00	12,218.37	11,734.00	11,720.62	61.39	36.48	-54.17	217.64	-476.05	3,344.78	3,277.74	67.04	49.895	
15,600.00	12,218.20	11,734.00	11,720.62	62.33	36.48	-54.17	217.64	-476.05	3,441.51	3,374.29	67.22	51.197	
15,700.00	12,218.02	11,734.00	11,720.62	63.29	36.48	-54.17	217.64	-476.05	3,538.43	3,471.03	67.40	52.499	
15,800.00	12,217.85	11,734.00	11,720.62	64.25	36.48	-54.17	217.64	-476.05	3,635.51	3,567.94	67.58	53.799	
15,900.00	12,217.67	11,734.00	11,720.62	65.24	36.48	-54.17	217.64	-476.05	3,732.75	3,665.00	67.75	55.098	
16,000.00	12,217.50	11,734.00	11,720.62	66.23	36.48	-54.17	217.64	-476.05	3,830.13	3,762.22	67.91	56.396	
16,100.00	12,217.33	11,734.00	11,720.62	67.23	36.48	-54.17	217.64	-476.05	3,927.64	3,859.56	68.08	57.693	
16,200.00	12,217.15	11,734.00	11,720.62	68.24	36.48	-54.17	217.64	-476.05	4,025.28	3,957.04	68.24	58.988	
16,300.00	12,216.98	11,734.00	11,720.62	69.27	36.48	-54.17	217.64	-476.05	4,123.02	4,054.63	68.40	60.281	
16,400.00	12,216.80	11,734.00	11,720.62	70.30	36.48	-54.17	217.64	-476.05	4,220.88	4,152.32	68.55	61.572	
16,500.00	12,216.63	11,734.00	11,720.62	71.34	36.48	-54.17	217.64	-476.05	4,318.83	4,250.12	68.70	62.861	
16,600.00	12,216.45	11,734.00	11,720.62	72.39	36.48	-54.17	217.64	-476.05	4,416.87	4,348.02	68.85	64.148	
16,700.00	12,216.28	11,734.00	11,720.62	73.45	36.48	-54.17	217.64	-476.05	4,515.00	4,446.00	69.00	65.433	
16,800.00	12,216.10	11,734.00	11,720.62	74.52	36.48	-54.17	217.64	-476.05	4,613.21	4,544.06	69.15	66.715	
16,900.00	12,215.93	11,734.00	11,720.62	75.60	36.48	-54.17	217.64	-476.05	4,711.49	4,642.20	69.29	67.995	
17,000.00	12,215.75	11,734.00	11,720.62	76.68	36.48	-54.17	217.64	-476.05	4,809.85	4,740.41	69.43	69.273	
17,100.00	12,215.58	11,734.00	11,720.62	77.77	36.48	-54.17	217.64	-476.05	4,908.27	4,838.69	69.57	70.548	
17,200.00	12,215.41	11,734.00	11,720.62	78.86	36.48	-54.17	217.64	-476.05	5,006.75	4,937.04	69.71	71.820	
17,300.00	12,215.23	11,734.00	11,720.62	79.97	36.48	-54.17	217.64	-476.05	5,105.29	5,035.44	69.85	73.089	
17,400.00	12,215.06	11,734.00	11,720.62	81.07	36.48	-54.17	217.64	-476.05	5,203.89	5,133.91	69.99	74.356	
17,500.00	12,214.88	11,734.00	11,720.62	82.19	36.48	-54.17	217.64	-476.05	5,302.54	5,232.42	70.12	75.620	
17,600.00	12,214.71	11,734.00	11,720.62	83.31	36.48	-54.17	217.64	-476.05	5,401.25	5,330.99	70.26	76.881	
17,700.00	12,214.53	11,734.00	11,720.62	84.44	36.48	-54.17	217.64	-476.05	5,499.99	5,429.60	70.39	78.138	
17,800.00	12,214.36	11,734.00	11,720.62	85.57	36.48	-54.17	217.64	-476.05	5,598.78	5,528.26	70.52	79.393	
17,900.00	12,214.18	11,734.00	11,720.62	86.70	36.48	-54.17	217.64	-476.05	5,697.62	5,626.97	70.65	80.645	
18,000.00	12,214.01	11,734.00	11,720.62	87.84	36.48	-54.17	217.64	-476.05	5,796.49	5,725.71	70.78	81.893	
18,100.00	12,213.83	11,734.00	11,720.62	88.99	36.48	-54.17	217.64	-476.05	5,895.41	5,824.49	70.91	83.138	
18,200.00	12,213.66	11,734.00	11,720.62	90.14	36.48	-54.17	217.64	-476.05	5,994.35	5,923.31	71.04	84.380	
18,300.00	12,213.49	11,734.00	11,720.62	91.30	36.48	-54.17	217.64	-476.05	6,093.34	6,022.17	71.17	85.618	
18,400.00	12,213.31	11,734.00	11,720.62	92.45	36.48	-54.17	217.64	-476.05	6,192.35	6,121.06	71.30	86.853	
18,500.00	12,213.14	11,734.00	11,720.62	93.62	36.48	-54.17	217.64	-476.05	6,291.40	6,219.97	71.42	88.085	
18,600.00	12,212.96	11,734.00	11,720.62	94.78	36.48	-54.17	217.64	-476.05	6,390.47	6,318.92	71.55	89.313	
18,700.00	12,212.79	11,734.00	11,720.62	95.95	36.48	-54.17	217.64	-476.05	6,489.58	6,417.90	71.68	90.538	
18,800.00	12,212.61	11,734.00	11,720.62	97.13	36.48	-54.17	217.64	-476.05	6,588.71	6,516.91	71.80	91.759	
18,900.00	12,212.44	11,734.00	11,720.62	98.31	36.48	-54.17	217.64	-476.05	6,687.87	6,615.94	71.93	92.976	
19,000.00	12,212.26	11,734.00	11,720.62	99.49	36.48	-54.17	217.64	-476.05	6,787.05	6,714.99	72.06	94.190	
19,100.00	12,212.09	11,734.00	11,720.62	100.67	36.48	-54.17	217.64	-476.05	6,886.26	6,814.07	72.18	95.401	
19,200.00	12,211.91	11,734.00	11,720.62	101.86	36.48	-54.17	217.64	-476.05	6,985.48	6,913.18	72.31	96.607	
19,300.00	12,211.74	11,734.00	11,720.62	103.05	36.48	-54.17	217.64	-476.05	7,084.73	7,012.30	72.43	97.810	
19,400.00	12,211.57	11,734.00	11,720.62	104.24	36.48	-54.17	217.64	-476.05	7,184.01	7,111.45	72.56	99.009	
19,500.00	12,211.39	11,734.00	11,720.62	105.44	36.48	-54.17	217.64	-476.05	7,283.30	7,210.61	72.68	100.205	
19,600.00	12,211.22	11,734.00	11,720.62	106.64	36.48	-54.17	217.64	-476.05	7,382.61	7,309.80	72.81	101.396	
19,700.00	12,211.04	11,734.00	11,720.62	107.84	36.48	-54.17	217.64	-476.05	7,481.93	7,409.00	72.93	102.584	
19,800.00	12,210.87	11,734.00	11,720.62	109.04	36.48	-54.17	217.64	-476.05	7,581.28	7,508.22	73.06	103.768	
19,900.00	12,210.69	11,734.00	11,720.62	110.25	36.48	-54.17	217.64	-476.05	7,680.64	7,607.46	73.18	104.948	
20,000.00	12,210.52	11,734.00	11,720.62	111.46	36.48	-54.17	217.64	-476.05	7,780.02	7,706.71	73.31	106.125	
20,100.00	12,210.34	11,734.00	11,720.62	112.67	36.48	-54.17	217.64	-476.05	7,879.42	7,805.98	73.44	107.297	
20,200.00	12,210.17	11,734.00	11,720.62	113.88	36.48	-54.17	217.64	-476.05	7,978.83	7,905.27	73.56	108.465	
20,300.00	12,209.99	11,734.00	11,720.62	115.10	36.48	-54.17	217.64	-476.05	8,078.25	8,004.57	73.69	109.630	
20,400.00	12,209.82	11,734.00	11,720.62	116.31	36.48	-54.17	217.64	-476.05	8,177.69	8,103.88	73.81	110.791	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 404H - OH / 67083 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 192-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
20,500.00	12,209.65	11,734.00	11,720.62	117.53	36.48	-54.17	217.64	-476.05	8,277.14	8,203.21	73.94	111.947	
20,600.00	12,209.47	11,734.00	11,720.62	118.75	36.48	-54.17	217.64	-476.05	8,376.61	8,302.55	74.06	113.100	
20,700.00	12,209.30	11,734.00	11,720.62	119.98	36.48	-54.17	217.64	-476.05	8,476.09	8,401.90	74.19	114.248	
20,800.00	12,209.12	11,734.00	11,720.62	121.20	36.48	-54.17	217.64	-476.05	8,575.58	8,501.26	74.32	115.393	
20,900.00	12,208.95	11,734.00	11,720.62	122.43	36.48	-54.17	217.64	-476.05	8,675.08	8,600.64	74.44	116.534	
21,000.00	12,208.77	11,734.00	11,720.62	123.66	36.48	-54.17	217.64	-476.05	8,774.59	8,700.02	74.57	117.670	
21,100.00	12,208.60	11,734.00	11,720.62	124.89	36.48	-54.17	217.64	-476.05	8,874.12	8,799.42	74.70	118.802	
21,200.00	12,208.42	11,734.00	11,720.62	126.12	36.48	-54.17	217.64	-476.05	8,973.65	8,898.83	74.82	119.931	
21,300.00	12,208.25	11,734.00	11,720.62	127.35	36.48	-54.17	217.64	-476.05	9,073.20	8,998.25	74.95	121.055	
21,400.00	12,208.07	11,734.00	11,720.62	128.59	36.48	-54.17	217.64	-476.05	9,172.75	9,097.67	75.08	122.176	
21,500.00	12,207.90	11,734.00	11,720.62	129.82	36.48	-54.17	217.64	-476.05	9,272.32	9,197.11	75.21	123.292	
21,600.00	12,207.73	11,734.00	11,720.62	131.06	36.48	-54.17	217.64	-476.05	9,371.89	9,296.55	75.33	124.404	
21,700.00	12,207.55	11,734.00	11,720.62	132.30	36.48	-54.17	217.64	-476.05	9,471.47	9,396.01	75.46	125.512	
21,800.00	12,207.38	11,734.00	11,720.62	133.54	36.48	-54.17	217.64	-476.05	9,571.06	9,495.47	75.59	126.616	
21,900.00	12,207.20	11,734.00	11,720.62	134.78	36.48	-54.17	217.64	-476.05	9,670.66	9,594.94	75.72	127.715	
22,000.00	12,207.03	11,734.00	11,720.62	136.03	36.48	-54.17	217.64	-476.05	9,770.27	9,694.42	75.85	128.811	
22,100.00	12,206.85	11,734.00	11,720.62	137.27	36.48	-54.17	217.64	-476.05	9,869.89	9,793.91	75.98	129.902	
22,200.00	12,206.68	11,734.00	11,720.62	138.52	36.48	-54.17	217.64	-476.05	9,969.51	9,893.40	76.11	130.990	
22,300.00	12,206.50	11,734.00	11,720.62	139.76	36.48	-54.17	217.64	-476.05	10,069.14	9,992.90	76.24	132.073	
22,400.00	12,206.33	11,734.00	11,720.62	141.01	36.48	-54.17	217.64	-476.05	10,168.78	10,092.41	76.37	133.152	
22,500.00	12,206.16	11,734.00	11,720.62	142.26	36.48	-54.17	217.64	-476.05	10,268.42	10,191.92	76.50	134.227	
22,600.00	12,205.98	11,734.00	11,720.62	143.51	36.48	-54.17	217.64	-476.05	10,368.08	10,291.45	76.63	135.298	
22,700.00	12,205.81	11,734.00	11,720.62	144.76	36.48	-54.17	217.64	-476.05	10,467.74	10,390.97	76.76	136.364	
22,800.00	12,205.63	11,734.00	11,720.62	146.02	36.48	-54.17	217.64	-476.05	10,567.40	10,490.51	76.89	137.427	
22,900.00	12,205.46	11,734.00	11,720.62	147.27	36.48	-54.17	217.64	-476.05	10,667.07	10,590.05	77.03	138.485	
23,000.00	12,205.28	11,734.00	11,720.62	148.52	36.48	-54.17	217.64	-476.05	10,766.75	10,689.59	77.16	139.539	
23,100.00	12,205.11	11,734.00	11,720.62	149.78	36.48	-54.17	217.64	-476.05	10,866.43	10,789.14	77.29	140.589	
23,200.00	12,204.93	11,734.00	11,720.62	151.04	36.48	-54.17	217.64	-476.05	10,966.12	10,888.70	77.43	141.635	
23,251.42	12,204.84	11,734.00	11,720.62	151.68	36.48	-54.17	217.64	-476.05	11,017.38	10,939.89	77.49	142.171	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 406H - OH / 67082 - Plan 3 11-30-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	1.00	1.00	89.48	0.23	24.97	24.97					
100.00	100.00	100.00	100.00	1.01	1.08	76.94	0.23	24.97	24.83	22.74	2.09	11.864		
166.20	166.19	166.19	166.19	1.05	1.39	99.57	0.23	24.97	24.82	22.38	2.44	10.169		
200.00	199.98	199.98	199.98	1.08	1.60	107.88	0.23	24.97	24.77	22.08	2.68	9.235		
300.00	299.96	299.96	299.96	1.26	2.01	126.60	0.23	24.97	25.79	22.52	3.27	7.877		
400.00	399.95	399.95	399.95	1.51	2.35	85.95	0.23	24.97	26.51	22.65	3.86	6.865		
500.00	499.92	499.92	499.92	1.79	2.65	49.63	0.23	24.97	25.59	21.15	4.44	5.759		
600.00	599.89	599.89	599.89	2.09	2.93	48.03	0.23	24.97	23.82	18.80	5.02	4.746		
700.00	699.85	699.85	699.85	2.41	3.18	48.12	0.23	24.97	22.03	16.44	5.59	3.943		
800.00	799.82	799.82	799.82	2.74	3.41	48.84	0.23	24.97	20.24	14.09	6.15	3.292		
900.00	899.80	899.80	899.80	3.07	3.63	32.11	0.23	24.97	19.11	12.41	6.70	2.852		
1,000.00	999.80	999.80	999.80	3.40	3.85	22.77	0.23	24.97	18.30	11.05	7.24	2.525		
1,100.00	1,099.80	1,099.80	1,099.80	3.74	4.05	31.42	0.23	24.97	17.70	9.92	7.78	2.274		
1,200.00	1,199.79	1,199.79	1,199.79	4.08	4.24	68.31	0.23	24.97	17.36	9.04	8.32	2.086		
1,240.07	1,239.86	1,239.86	1,239.86	4.22	4.31	90.00	0.23	24.97	17.32	8.79	8.53	2.030 CC		
1,300.00	1,299.79	1,299.79	1,299.79	4.43	4.43	119.87	0.23	24.97	17.38	8.53	8.85	1.963 ES		
1,400.00	1,399.79	1,399.79	1,399.79	4.77	4.61	157.85	0.23	24.97	17.95	8.57	9.38	1.914 SF		
1,500.00	1,499.78	1,499.78	1,499.78	5.11	4.78	175.07	0.23	24.97	19.16	9.27	9.89	1.937		
1,600.00	1,599.77	1,599.77	1,599.77	5.45	4.95	-169.08	0.23	24.97	20.99	10.59	10.40	2.018		
1,700.00	1,699.75	1,699.75	1,699.75	5.79	5.12	-157.22	0.23	24.97	22.69	11.79	10.90	2.081		
1,800.00	1,799.74	1,799.74	1,799.74	6.13	5.28	-161.62	0.23	24.97	24.09	12.68	11.40	2.112		
1,900.00	1,899.73	1,899.73	1,899.73	6.47	5.44	-162.41	0.23	24.97	25.55	13.65	11.90	2.146		
2,000.00	1,999.72	1,999.72	1,999.72	6.81	5.59	-142.60	0.23	24.97	26.74	14.34	12.40	2.156		
2,100.00	2,099.71	2,099.11	2,099.09	7.15	5.78	-115.16	0.23	26.25	28.41	15.52	12.89	2.204		
2,200.00	2,199.71	2,198.31	2,198.22	7.49	6.14	-140.89	0.23	30.11	32.42	18.88	13.54	2.395		
2,300.00	2,299.70	2,297.17	2,296.87	7.83	6.50	-150.65	0.23	36.52	39.33	25.11	14.22	2.766		
2,400.00	2,399.69	2,395.58	2,394.87	8.18	6.86	-143.23	0.23	45.43	48.88	33.97	14.91	3.278		
2,500.00	2,499.69	2,493.45	2,492.08	8.52	7.23	-133.77	0.23	56.80	60.76	45.16	15.60	3.894		
2,600.00	2,599.68	2,590.93	2,588.58	8.87	7.49	-145.98	0.23	70.56	75.19	59.00	16.19	4.644		
2,700.00	2,699.68	2,689.70	2,686.23	9.21	7.69	-167.82	0.23	85.39	90.60	73.85	16.75	5.409		
2,800.00	2,799.68	2,788.48	2,783.89	9.56	7.93	157.34	0.23	100.23	106.03	88.69	17.34	6.114		
2,900.00	2,899.68	2,887.29	2,881.58	9.92	8.18	124.55	0.23	115.07	121.36	103.41	17.95	6.760		
3,000.00	2,999.68	2,986.12	2,979.29	10.27	8.45	115.28	0.23	129.91	136.53	117.96	18.58	7.350		
3,100.00	3,099.67	3,084.93	3,076.98	10.62	8.73	120.98	0.23	144.75	151.92	132.70	19.22	7.906		
3,200.00	3,199.67	3,183.73	3,174.65	10.98	9.03	117.62	0.23	159.59	167.38	147.51	19.87	8.426		
3,300.00	3,299.66	3,282.55	3,272.36	11.33	9.33	102.16	0.23	174.44	182.63	162.10	20.53	8.897		
3,400.00	3,399.66	3,381.41	3,370.10	11.68	9.65	89.19	0.23	189.28	197.67	176.47	21.20	9.325		
3,500.00	3,499.65	3,480.29	3,467.86	12.04	9.98	86.32	0.23	204.13	212.59	190.71	21.88	9.717		
3,600.00	3,599.65	3,579.14	3,565.58	12.39	10.31	131.14	0.23	218.98	227.68	205.12	22.57	10.089		
3,700.00	3,699.65	3,677.97	3,663.29	12.74	10.65	113.66	0.23	233.82	242.95	219.69	23.26	10.443		
3,800.00	3,799.65	3,776.79	3,760.99	13.10	11.00	129.76	0.23	248.67	258.24	234.27	23.97	10.774		
3,900.00	3,899.65	3,875.62	3,858.69	13.45	11.35	-113.63	0.23	263.51	273.46	248.79	24.67	11.083		
4,000.00	3,999.64	3,974.40	3,956.36	13.79	11.71	-141.99	0.24	278.35	288.93	263.55	25.38	11.385		
4,100.00	4,099.64	4,073.13	4,053.97	14.13	12.07	-144.70	0.24	293.17	304.72	278.63	26.09	11.678		
4,200.00	4,199.64	4,171.91	4,151.63	14.48	12.44	-78.30	0.24	308.01	320.23	293.42	26.81	11.944		
4,300.00	4,299.62	4,270.93	4,249.53	14.82	12.82	-29.76	0.24	322.88	334.05	306.52	27.53	12.134		
4,400.00	4,399.56	4,370.20	4,347.66	15.16	13.20	-24.30	0.24	337.79	345.93	317.68	28.25	12.244		
4,500.00	4,499.52	4,469.39	4,445.73	15.50	13.58	-20.15	0.24	352.69	358.51	329.53	28.98	12.371		
4,600.00	4,599.48	4,568.61	4,543.83	15.84	13.96	-23.37	0.24	367.59	370.82	341.11	29.71	12.480		
4,700.00	4,699.36	4,668.01	4,642.10	16.19	14.35	-26.33	0.24	382.52	381.44	350.99	30.45	12.527		
4,800.00	4,799.16	4,767.51	4,740.47	16.53	14.75	-25.97	0.24	397.47	390.84	359.65	31.19	12.531		
4,900.00	4,899.01	4,866.95	4,838.79	16.87	15.14	-23.98	0.24	412.40	401.06	369.12	31.93	12.559		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 406H - OH / 67082 - Plan 3 11-30-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis					Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,998.96	4,966.22	4,936.92	17.22	15.54	-27.92	0.24	427.31	413.05	380.37	32.68	12.640	
5,100.00	5,098.90	5,065.47	5,035.05	17.56	15.94	-27.13	0.24	442.22	425.13	391.70	33.43	12.718	
5,200.00	5,198.84	5,164.73	5,133.18	17.91	16.34	-30.29	0.24	457.13	437.16	402.99	34.18	12.791	
5,300.00	5,298.82	5,263.86	5,231.19	18.26	16.74	3.81	0.24	472.02	450.23	415.30	34.93	12.890	
5,400.00	5,398.81	5,362.67	5,328.88	18.60	17.14	131.64	0.24	486.86	465.58	429.89	35.68	13.048	
5,500.00	5,498.79	5,461.34	5,426.43	18.96	17.54	134.35	0.24	501.67	481.80	445.37	36.44	13.222	
5,600.00	5,598.78	5,560.01	5,523.98	19.31	17.95	142.15	0.24	516.49	498.03	460.83	37.20	13.389	
5,700.00	5,698.77	5,658.69	5,621.54	19.66	18.36	140.71	0.24	531.32	514.20	476.24	37.95	13.548	
5,800.00	5,798.76	5,757.42	5,719.15	20.01	18.76	132.79	0.24	546.14	530.10	491.38	38.72	13.692	
5,900.00	5,898.75	5,856.16	5,816.77	20.36	19.17	131.11	0.24	560.97	545.90	506.42	39.48	13.828	
6,000.00	5,998.74	5,954.88	5,914.37	20.72	19.58	130.07	0.24	575.80	561.81	521.56	40.24	13.961	
6,100.00	6,098.73	6,053.59	6,011.96	21.07	20.00	130.22	0.24	590.63	577.81	536.80	41.01	14.091	
6,200.00	6,198.72	6,152.29	6,109.55	21.42	20.41	129.73	0.25	605.45	593.82	552.04	41.77	14.216	
6,300.00	6,298.70	6,250.98	6,207.11	21.77	20.82	131.44	0.25	620.27	609.95	567.41	42.54	14.339	
6,400.00	6,398.69	6,349.63	6,304.64	22.13	21.24	-176.39	0.25	635.09	626.32	583.01	43.31	14.463	
6,500.00	6,498.67	6,448.20	6,402.10	22.47	21.65	-147.73	0.25	649.90	643.09	599.02	44.07	14.593	
6,600.00	6,598.65	6,546.81	6,499.59	22.82	22.07	-110.38	0.25	664.71	659.63	614.80	44.83	14.713	
6,700.00	6,698.64	6,645.73	6,597.38	23.16	22.48	-22.78	0.25	679.56	674.27	628.68	45.60	14.788	
6,800.00	6,798.64	6,744.72	6,695.25	23.51	22.90	3.40	0.25	694.43	688.46	642.09	46.36	14.849	
6,900.00	6,898.64	6,843.68	6,793.09	23.86	23.32	12.91	0.25	709.29	702.79	655.66	47.13	14.911	
7,000.00	6,998.64	6,942.63	6,890.92	24.20	23.74	-11.38	0.25	724.16	717.26	669.37	47.90	14.974	
7,100.00	7,098.63	7,041.55	6,988.71	24.55	24.16	-51.74	0.25	739.01	731.93	683.27	48.67	15.039	
7,200.00	7,198.63	7,140.47	7,086.51	24.89	24.58	-56.12	0.25	753.87	746.59	697.15	49.44	15.102	
7,300.00	7,298.63	7,239.40	7,184.32	25.23	25.01	-50.89	0.25	768.73	761.14	710.94	50.20	15.161	
7,400.00	7,398.63	7,338.31	7,282.11	25.58	25.43	-59.08	0.25	783.58	775.80	724.83	50.97	15.220	
7,500.00	7,498.62	7,437.23	7,379.90	25.92	25.85	-67.86	0.25	798.44	790.50	738.75	51.74	15.277	
7,600.00	7,598.62	7,536.13	7,477.69	26.27	26.27	-74.39	0.25	813.30	805.21	752.70	52.52	15.333	
7,700.00	7,698.61	7,635.05	7,575.48	26.62	26.70	-72.84	0.25	828.15	819.79	766.51	53.29	15.384	
7,800.00	7,798.59	7,733.97	7,673.28	26.96	27.12	-73.00	0.25	843.01	834.34	780.28	54.06	15.433	
7,900.00	7,898.58	7,832.90	7,771.09	27.31	27.55	-60.56	0.25	857.87	848.89	794.05	54.84	15.480	
8,000.00	7,998.58	7,931.82	7,868.89	27.66	27.97	56.28	0.25	872.73	863.50	807.89	55.61	15.527	
8,100.00	8,098.58	8,030.72	7,966.66	28.01	28.40	77.43	0.25	887.58	878.32	821.94	56.39	15.577	
8,200.00	8,198.58	8,141.36	8,076.10	28.36	28.87	80.89	0.25	903.87	892.97	835.72	57.25	15.597	
8,300.00	8,298.58	8,271.19	8,204.98	28.71	29.44	160.79	0.26	919.49	905.06	846.81	58.24	15.540	
8,400.00	8,398.57	8,401.92	8,335.21	29.06	30.00	-147.42	0.26	930.78	914.02	854.85	59.17	15.448	
8,500.00	8,498.57	8,533.30	8,466.41	29.40	30.49	-131.41	0.26	937.63	919.69	859.71	59.97	15.335	
8,600.00	8,598.57	8,665.03	8,598.11	29.75	30.81	-134.79	0.26	939.97	922.07	861.51	60.55	15.228	
8,700.00	8,698.56	8,765.48	8,698.56	30.10	30.83	-137.82	0.26	939.97	922.89	861.97	60.92	15.149	
8,800.00	8,798.55	8,865.47	8,798.55	30.45	30.86	-145.33	0.26	939.97	923.98	862.68	61.30	15.074	
8,900.00	8,898.54	8,965.46	8,898.54	30.80	30.89	-141.54	0.26	939.97	925.08	863.40	61.68	14.999	
9,000.00	8,998.54	9,065.46	8,998.54	31.15	30.92	-136.28	0.26	939.97	925.96	863.91	62.05	14.922	
9,100.00	9,098.53	9,165.45	9,098.53	31.49	30.94	-127.05	0.26	939.97	926.61	864.18	62.43	14.842	
9,200.00	9,198.53	9,265.44	9,198.53	31.84	30.97	-117.26	0.26	939.97	927.20	864.39	62.81	14.762	
9,300.00	9,298.52	9,365.44	9,298.52	32.19	31.00	-100.10	0.26	939.97	927.60	864.41	63.19	14.680	
9,400.00	9,398.52	9,465.44	9,398.52	32.54	31.03	-74.85	0.26	939.97	927.46	863.89	63.56	14.591	
9,500.00	9,498.51	9,565.43	9,498.51	32.89	31.06	-74.45	0.26	939.97	927.27	863.33	63.94	14.502	
9,600.00	9,598.51	9,665.43	9,598.51	33.23	31.09	35.58	0.26	939.97	926.96	862.64	64.32	14.411	
9,700.00	9,698.51	9,765.43	9,698.51	33.58	31.12	74.22	0.26	939.97	926.54	861.84	64.70	14.321	
9,780.54	9,779.04	9,845.96	9,779.04	33.86	31.15	90.00	0.26	939.97	926.43	861.42	65.00	14.252	
9,800.00	9,798.50	9,865.42	9,798.50	33.93	31.15	92.70	0.26	939.97	926.43	861.35	65.08	14.236	
9,900.00	9,898.48	9,965.40	9,898.48	34.28	31.18	89.44	0.26	939.97	926.54	861.08	65.46	14.155	
10,000.00	9,998.47	10,065.39	9,998.47	34.63	31.21	36.79	0.26	939.97	926.07	860.23	65.84	14.066	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 406H - OH / 67082 - Plan 3 11-30-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	10,098.45	10,165.37	10,098.45	34.98	31.24	-4.59	0.26	939.97	924.15	857.94	66.22	13.957	
10,200.00	10,198.42	10,265.34	10,198.42	35.33	31.27	3.08	0.26	939.97	921.88	855.28	66.59	13.843	
10,300.00	10,298.42	10,365.34	10,298.42	35.68	31.31	23.54	0.26	939.97	921.07	854.09	66.97	13.752	
10,377.82	10,376.24	10,443.15	10,376.24	35.95	31.33	90.00	0.26	939.97	920.88	853.61	67.27	13.689	
10,400.00	10,398.42	10,465.34	10,398.42	36.03	31.34	116.98	0.26	939.97	920.89	853.54	67.36	13.672	
10,500.00	10,498.42	10,565.34	10,498.42	36.38	31.37	-145.71	0.26	939.97	921.39	853.65	67.74	13.603	
10,600.00	10,598.41	10,665.33	10,598.41	36.72	31.40	-134.02	0.26	939.97	922.26	854.15	68.12	13.539	
10,700.00	10,698.40	10,765.32	10,698.40	37.07	31.43	-111.13	0.26	939.97	922.92	854.42	68.50	13.474	
10,800.00	10,798.39	10,865.31	10,798.39	37.42	31.46	-125.87	0.26	939.97	923.74	854.86	68.88	13.411	
10,900.00	10,898.37	10,965.29	10,898.37	37.77	31.50	-127.45	0.26	939.97	924.82	855.56	69.26	13.353	
11,000.00	10,998.36	11,065.27	10,998.36	38.12	31.53	-170.66	0.26	939.97	926.21	856.56	69.64	13.299	
11,100.00	11,098.34	11,165.26	11,098.34	38.47	31.56	165.79	0.26	939.97	927.93	857.90	70.02	13.251	
11,200.00	11,198.33	11,265.25	11,198.33	38.82	31.59	174.69	0.26	939.97	929.46	859.05	70.41	13.201	
11,300.00	11,298.32	11,365.24	11,298.32	39.17	31.63	156.25	0.26	939.97	930.59	859.80	70.79	13.146	
11,400.00	11,398.31	11,465.23	11,398.31	39.52	31.66	135.02	0.26	939.97	931.51	860.34	71.17	13.088	
11,500.00	11,498.30	11,565.21	11,498.30	39.87	31.69	132.26	0.26	939.97	932.84	861.28	71.56	13.036	
11,600.00	11,598.26	11,665.18	11,598.26	40.22	31.73	136.47	0.26	939.97	934.63	862.69	71.94	12.991	
11,700.00	11,698.13	11,765.05	11,698.13	40.57	31.76	98.69	0.26	939.97	936.67	864.35	72.32	12.951	
11,800.00	11,797.26	11,864.18	11,797.26	40.92	31.79	107.15	0.26	939.97	938.57	865.87	72.70	12.911	
11,900.00	11,894.04	11,960.96	11,894.04	41.25	31.83	117.68	0.26	939.97	949.20	876.15	73.05	12.993	
12,000.00	11,984.36	12,074.90	12,007.88	41.58	31.83	111.51	3.02	939.56	968.15	894.91	73.24	13.218	
12,100.00	12,063.58	12,260.35	12,183.81	41.88	31.76	107.47	57.31	931.44	983.72	910.85	72.87	13.500	
12,200.00	12,127.93	12,478.41	12,345.60	42.16	31.76	102.78	199.08	910.25	986.95	914.72	72.23	13.664	
12,300.00	12,174.23	12,695.96	12,427.53	42.41	32.04	98.34	396.40	880.76	966.48	894.45	72.02	13.419	
12,400.00	12,207.18	12,800.00	12,433.69	42.64	32.31	97.96	498.99	865.66	920.46	847.92	72.54	12.689	
12,500.00	12,226.06	12,859.18	12,433.51	42.85	32.58	102.06	557.81	859.16	872.76	799.69	73.07	11.943	
12,600.00	12,231.93	12,916.30	12,433.35	43.07	32.86	105.07	614.79	855.20	829.63	756.19	73.44	11.297	
12,700.00	12,232.01	12,977.55	12,433.17	43.31	33.22	105.74	676.01	853.48	791.73	717.94	73.79	10.730	
12,800.00	12,232.36	13,070.36	12,432.90	46.60	33.63	105.70	768.82	852.86	763.32	689.16	74.16	10.293	
12,900.00	12,231.44	13,167.89	12,432.62	46.64	34.11	106.14	866.35	852.21	742.21	667.60	74.60	9.949	
13,000.00	12,231.18	13,265.69	12,432.34	46.69	34.64	106.51	964.14	851.56	722.16	647.02	75.14	9.610	
13,100.00	12,230.71	13,364.11	12,432.05	46.74	35.24	106.85	1,062.56	850.90	705.25	629.48	75.77	9.307	
13,200.00	12,230.03	13,463.05	12,431.77	46.79	35.88	107.15	1,161.49	850.24	691.47	614.98	76.49	9.039	
13,300.00	12,229.13	13,562.40	12,431.48	46.86	36.58	107.42	1,260.84	849.57	680.83	603.52	77.31	8.807	
13,400.00	12,228.02	13,662.06	12,431.19	46.94	37.32	107.64	1,360.50	848.90	673.33	595.11	78.22	8.608	
13,500.00	12,226.71	13,761.93	12,430.90	47.07	38.10	107.81	1,460.37	848.24	668.96	589.73	79.22	8.444	
13,589.66	12,225.35	13,851.57	12,430.64	47.27	38.83	107.91	1,550.00	847.64	667.70	587.49	80.21	8.325	
13,600.00	12,225.18	13,861.90	12,430.61	47.30	38.92	107.92	1,560.34	847.57	667.72	587.39	80.32	8.313	
13,700.00	12,223.54	13,961.89	12,430.32	47.68	39.77	108.03	1,660.33	846.90	668.13	586.63	81.51	8.197	
13,800.00	12,221.91	14,061.88	12,430.04	48.18	40.66	108.14	1,760.32	846.23	668.55	585.80	82.75	8.079	
13,900.00	12,221.16	14,161.88	12,429.75	48.74	41.58	108.18	1,860.31	845.56	668.69	584.59	84.10	7.952	
14,000.00	12,220.99	14,261.88	12,429.46	49.34	42.53	108.17	1,960.31	844.89	668.65	583.13	85.52	7.819	
14,100.00	12,220.82	14,361.88	12,429.17	49.99	43.51	108.16	2,060.31	844.22	668.61	581.60	87.00	7.685	
14,200.00	12,220.64	14,461.88	12,428.88	50.66	44.51	108.15	2,160.30	843.55	668.56	580.02	88.54	7.551	
14,300.00	12,220.47	14,561.88	12,428.59	51.36	45.53	108.14	2,260.30	842.88	668.52	578.39	90.13	7.417	
14,400.00	12,220.29	14,661.88	12,428.30	52.08	46.58	108.13	2,360.30	842.21	668.48	576.71	91.77	7.284	
14,500.00	12,220.12	14,761.88	12,428.01	52.83	47.64	108.12	2,460.29	841.54	668.44	574.98	93.46	7.152	
14,600.00	12,219.94	14,861.88	12,427.72	53.60	48.72	108.11	2,560.29	840.87	668.40	573.21	95.19	7.022	
14,700.00	12,219.77	14,961.88	12,427.44	54.40	49.82	108.10	2,660.29	840.21	668.36	571.39	96.97	6.893	
14,800.00	12,219.59	15,061.88	12,427.15	55.21	50.94	108.09	2,760.29	839.54	668.32	569.54	98.78	6.766	
14,900.00	12,219.42	15,161.88	12,426.86	56.04	52.07	108.08	2,860.28	838.87	668.28	567.65	100.63	6.641	
15,000.00	12,219.24	15,261.88	12,426.57	56.89	53.22	108.07	2,960.28	838.20	668.23	565.72	102.52	6.518	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 406H - OH / 67082 - Plan 3 11-30-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,100.00	12,219.07	15,361.88	12,426.28	57.76	54.38	108.07	3,060.28	837.53	668.19	563.76	104.44	6.398	
15,200.00	12,218.90	15,461.88	12,425.99	58.64	55.55	108.06	3,160.28	836.86	668.15	561.77	106.39	6.280	
15,300.00	12,218.72	15,561.88	12,425.70	59.54	56.73	108.05	3,260.27	836.19	668.11	559.74	108.37	6.165	
15,400.00	12,218.55	15,661.88	12,425.41	60.46	57.93	108.04	3,360.27	835.52	668.07	557.69	110.38	6.053	
15,500.00	12,218.37	15,761.88	12,425.12	61.39	59.13	108.03	3,460.27	834.85	668.03	555.61	112.42	5.943	
15,600.00	12,218.20	15,861.88	12,424.84	62.33	60.35	108.02	3,560.26	834.18	667.99	553.51	114.48	5.835	
15,700.00	12,218.02	15,961.88	12,424.55	63.29	61.57	108.01	3,660.26	833.51	667.95	551.38	116.56	5.730	
15,800.00	12,217.85	16,061.88	12,424.26	64.25	62.81	108.00	3,760.26	832.85	667.91	549.23	118.67	5.628	
15,900.00	12,217.67	16,161.88	12,423.97	65.24	64.05	107.99	3,860.26	832.18	667.87	547.06	120.80	5.529	
16,000.00	12,217.50	16,261.88	12,423.68	66.23	65.30	107.98	3,960.25	831.51	667.82	544.87	122.96	5.431	
16,100.00	12,217.33	16,361.88	12,423.39	67.23	66.56	107.97	4,060.25	830.84	667.78	542.66	125.13	5.337	
16,200.00	12,217.15	16,461.88	12,423.10	68.24	67.82	107.96	4,160.25	830.17	667.74	540.43	127.32	5.245	
16,300.00	12,216.98	16,561.88	12,422.81	69.27	69.09	107.96	4,260.25	829.50	667.70	538.18	129.52	5.155	
16,400.00	12,216.80	16,661.88	12,422.53	70.30	70.37	107.95	4,360.24	828.83	667.66	535.91	131.75	5.068	
16,500.00	12,216.63	16,761.88	12,422.24	71.34	71.65	107.94	4,460.24	828.16	667.62	533.63	133.99	4.983	
16,600.00	12,216.45	16,861.88	12,421.95	72.39	72.94	107.93	4,560.24	827.49	667.58	531.34	136.24	4.900	
16,700.00	12,216.28	16,961.88	12,421.66	73.45	74.23	107.92	4,660.23	826.82	667.54	529.03	138.51	4.819	
16,800.00	12,216.10	17,061.88	12,421.37	74.52	75.53	107.91	4,760.23	826.15	667.50	526.70	140.79	4.741	
16,900.00	12,215.93	17,161.88	12,421.08	75.60	76.84	107.90	4,860.23	825.48	667.46	524.37	143.09	4.665	
17,000.00	12,215.75	17,261.88	12,420.79	76.68	78.14	107.89	4,960.23	824.82	667.42	522.02	145.40	4.590	
17,100.00	12,215.58	17,361.88	12,420.50	77.77	79.46	107.88	5,060.22	824.15	667.38	519.66	147.72	4.518	
17,200.00	12,215.41	17,461.88	12,420.21	78.86	80.77	107.87	5,160.22	823.48	667.33	517.28	150.05	4.447	
17,300.00	12,215.23	17,561.88	12,419.93	79.97	82.09	107.86	5,260.22	822.81	667.29	514.90	152.40	4.379	
17,400.00	12,215.06	17,661.88	12,419.64	81.07	83.42	107.85	5,360.22	822.14	667.25	512.50	154.75	4.312	
17,500.00	12,214.88	17,761.88	12,419.35	82.19	84.75	107.85	5,460.21	821.47	667.21	510.10	157.11	4.247	
17,600.00	12,214.71	17,861.88	12,419.06	83.31	86.08	107.84	5,560.21	820.80	667.17	507.69	159.49	4.183	
17,700.00	12,214.53	17,961.88	12,418.77	84.44	87.41	107.83	5,660.21	820.13	667.13	505.26	161.87	4.121	
17,800.00	12,214.36	18,061.88	12,418.48	85.57	88.75	107.82	5,760.20	819.46	667.09	502.83	164.26	4.061	
17,900.00	12,214.18	18,161.88	12,418.19	86.70	90.09	107.81	5,860.20	818.79	667.05	500.39	166.66	4.003	
18,000.00	12,214.01	18,261.88	12,417.90	87.84	91.43	107.80	5,960.20	818.12	667.01	497.94	169.07	3.945	
18,100.00	12,213.83	18,361.88	12,417.61	88.99	92.78	107.79	6,060.20	817.46	666.97	495.49	171.48	3.889	
18,200.00	12,213.66	18,461.88	12,417.33	90.14	94.13	107.78	6,160.19	816.79	666.93	493.02	173.90	3.835	
18,300.00	12,213.49	18,561.88	12,417.04	91.30	95.48	107.77	6,260.19	816.12	666.89	490.55	176.33	3.782	
18,400.00	12,213.31	18,661.88	12,416.75	92.45	96.84	107.76	6,360.19	815.45	666.85	488.08	178.77	3.730	
18,500.00	12,213.14	18,761.88	12,416.46	93.62	98.19	107.75	6,460.19	814.78	666.81	485.59	181.21	3.680	
18,600.00	12,212.96	18,861.88	12,416.17	94.78	99.55	107.74	6,560.18	814.11	666.77	483.10	183.66	3.630	
18,700.00	12,212.79	18,961.88	12,415.88	95.95	100.91	107.73	6,660.18	813.44	666.73	480.61	186.12	3.582	
18,800.00	12,212.61	19,061.88	12,415.59	97.13	102.27	107.73	6,760.18	812.77	666.69	478.10	188.58	3.535	
18,900.00	12,212.44	19,161.88	12,415.30	98.31	103.64	107.72	6,860.17	812.10	666.64	475.60	191.05	3.489	
19,000.00	12,212.26	19,261.88	12,415.01	99.49	105.01	107.71	6,960.17	811.43	666.60	473.08	193.52	3.445	
19,100.00	12,212.09	19,361.88	12,414.73	100.67	106.38	107.70	7,060.17	810.76	666.56	470.57	196.00	3.401	
19,200.00	12,211.91	19,461.88	12,414.44	101.86	107.75	107.69	7,160.17	810.09	666.52	468.04	198.48	3.358	
19,300.00	12,211.74	19,561.88	12,414.15	103.05	109.12	107.68	7,260.16	809.43	666.48	465.51	200.97	3.316	
19,400.00	12,211.57	19,661.88	12,413.86	104.24	110.49	107.67	7,360.16	808.76	666.44	462.98	203.46	3.276	
19,500.00	12,211.39	19,761.88	12,413.57	105.44	111.87	107.66	7,460.16	808.09	666.40	460.44	205.96	3.236	
19,600.00	12,211.22	19,861.88	12,413.28	106.64	113.24	107.65	7,560.16	807.42	666.36	457.90	208.46	3.197	
19,700.00	12,211.04	19,961.88	12,412.99	107.84	114.62	107.64	7,660.15	806.75	666.32	455.35	210.97	3.158	
19,800.00	12,210.87	20,061.88	12,412.70	109.04	116.00	107.63	7,760.15	806.08	666.28	452.80	213.48	3.121	
19,900.00	12,210.69	20,161.88	12,412.41	110.25	117.38	107.62	7,860.15	805.41	666.24	450.25	215.99	3.085	
20,000.00	12,210.52	20,261.88	12,412.13	111.46	118.77	107.62	7,960.14	804.74	666.20	447.69	218.51	3.049	
20,100.00	12,210.34	20,361.88	12,411.84	112.67	120.15	107.61	8,060.14	804.07	666.16	445.13	221.03	3.014	
20,200.00	12,210.17	20,461.88	12,411.55	113.88	121.53	107.60	8,160.14	803.40	666.12	442.56	223.56	2.980	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 406H - OH / 67082 - Plan 3 11-30-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,300.00	12,209.99	20,561.88	12,411.26	115.10	122.92	107.59	8,260.14	802.73	666.08	440.00	226.08	2.946	
20,400.00	12,209.82	20,661.88	12,410.97	116.31	124.31	107.58	8,360.13	802.07	666.04	437.42	228.62	2.913	
20,500.00	12,209.65	20,761.88	12,410.68	117.53	125.70	107.57	8,460.13	801.40	666.00	434.85	231.15	2.881	
20,600.00	12,209.47	20,861.88	12,410.39	118.75	127.09	107.56	8,560.13	800.73	665.96	432.27	233.69	2.850	
20,700.00	12,209.30	20,961.88	12,410.10	119.98	128.48	107.55	8,660.13	800.06	665.92	429.69	236.23	2.819	
20,800.00	12,209.12	21,061.88	12,409.81	121.20	129.87	107.54	8,760.12	799.39	665.88	427.10	238.78	2.789	
20,900.00	12,208.95	21,161.88	12,409.53	122.43	131.26	107.53	8,860.12	798.72	665.84	424.52	241.32	2.759	
21,000.00	12,208.77	21,261.88	12,409.24	123.66	132.65	107.52	8,960.12	798.05	665.80	421.92	243.87	2.730	
21,100.00	12,208.60	21,361.88	12,408.95	124.89	134.05	107.51	9,060.11	797.38	665.76	419.33	246.43	2.702	
21,200.00	12,208.42	21,461.88	12,408.66	126.12	135.44	107.50	9,160.11	796.71	665.72	416.74	248.98	2.674	
21,300.00	12,208.25	21,561.88	12,408.37	127.35	136.84	107.50	9,260.11	796.04	665.68	414.14	251.54	2.646	
21,400.00	12,208.07	21,661.88	12,408.08	128.59	138.24	107.49	9,360.11	795.37	665.64	411.54	254.10	2.620	
21,500.00	12,207.90	21,761.88	12,407.79	129.82	139.64	107.48	9,460.10	794.70	665.60	408.93	256.67	2.593	
21,600.00	12,207.73	21,861.88	12,407.50	131.06	141.03	107.47	9,560.10	794.04	665.56	406.33	259.23	2.567	
21,700.00	12,207.55	21,961.88	12,407.21	132.30	142.43	107.46	9,660.10	793.37	665.52	403.72	261.80	2.542	
21,800.00	12,207.38	22,061.88	12,406.93	133.54	143.83	107.45	9,760.10	792.70	665.48	401.11	264.37	2.517	
21,900.00	12,207.20	22,161.88	12,406.64	134.78	145.23	107.44	9,860.09	792.03	665.44	398.50	266.94	2.493	
22,000.00	12,207.03	22,261.88	12,406.35	136.03	146.64	107.43	9,960.09	791.36	665.40	395.88	269.52	2.469	
22,100.00	12,206.85	22,361.88	12,406.06	137.27	148.04	107.42	10,060.09	790.69	665.36	393.27	272.09	2.445	
22,200.00	12,206.68	22,461.88	12,405.77	138.52	149.44	107.41	10,160.08	790.02	665.32	390.65	274.67	2.422	
22,300.00	12,206.50	22,561.87	12,405.48	139.76	150.84	107.40	10,260.08	789.35	665.28	388.03	277.25	2.400	
22,400.00	12,206.33	22,661.87	12,405.19	141.01	152.25	107.39	10,360.08	788.68	665.24	385.40	279.84	2.377	
22,500.00	12,206.16	22,761.87	12,404.90	142.26	153.65	107.38	10,460.08	788.01	665.20	382.78	282.42	2.355	
22,600.00	12,205.98	22,861.87	12,404.62	143.51	155.06	107.38	10,560.07	787.34	665.16	380.15	285.01	2.334	
22,700.00	12,205.81	22,961.87	12,404.33	144.76	156.47	107.37	10,660.07	786.68	665.12	377.53	287.60	2.313	
22,800.00	12,205.63	23,061.87	12,404.04	146.02	157.87	107.36	10,760.07	786.01	665.08	374.90	290.19	2.292	
22,900.00	12,205.46	23,161.87	12,403.75	147.27	159.28	107.35	10,860.07	785.34	665.04	372.26	292.78	2.271	
23,000.00	12,205.28	23,261.87	12,403.46	148.52	160.69	107.34	10,960.06	784.67	665.00	369.63	295.37	2.251	
23,100.00	12,205.11	23,361.87	12,403.17	149.78	162.10	107.33	11,060.06	784.00	664.96	367.00	297.97	2.232	
23,200.00	12,204.93	23,461.87	12,402.88	151.04	163.50	107.32	11,160.06	783.33	664.92	364.36	300.56	2.212	
23,251.42	12,204.84	23,513.29	12,402.73	151.68	164.23	107.31	11,211.47	782.99	664.90	363.01	301.90	2.202	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 406H - OH / 67082 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 192-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	1.00	1.00	89.48	0.23	24.97	24.97				
100.00	100.00	99.98	99.98	1.01	1.18	76.91	0.24	25.00	24.86	22.67	2.19	11.360	
124.97	124.97	124.95	124.95	1.02	1.27	86.73	0.24	25.02	24.83	22.54	2.29	10.845	
200.00	199.98	199.96	199.96	1.08	1.59	107.77	0.27	25.09	24.88	22.21	2.67	9.310	
300.00	299.96	299.95	299.95	1.26	1.98	126.84	0.09	25.11	25.95	22.70	3.25	7.989	
400.00	399.95	399.86	399.86	1.51	2.63	87.10	-0.38	25.20	26.87	22.74	4.13	6.500	
500.00	499.92	499.79	499.78	1.79	3.17	52.04	-1.08	25.47	26.46	21.52	4.94	5.353	
600.00	599.89	599.70	599.69	2.09	3.43	51.47	-1.74	25.84	25.38	19.88	5.50	4.612	
700.00	699.85	699.62	699.61	2.41	3.67	51.93	-2.37	26.57	24.66	18.61	6.05	4.074	
800.00	799.82	799.62	799.60	2.74	3.89	51.94	-2.79	27.44	23.95	17.34	6.62	3.620	
885.64	885.45	885.25	885.23	3.02	4.08	39.86	-3.00	28.22	23.68	16.58	7.10	3.337 CC	
900.00	899.80	899.60	899.58	3.07	4.12	33.98	-3.03	28.36	23.77	16.59	7.18	3.311	
1,000.00	999.80	999.62	999.60	3.40	4.34	23.70	-3.33	29.28	23.88	16.14	7.74	3.086	
1,100.00	1,099.80	1,099.68	1,099.65	3.74	4.56	31.60	-3.58	29.99	24.01	15.72	8.29	2.895	
1,200.00	1,199.79	1,199.73	1,199.70	4.08	4.75	66.55	-3.32	30.79	24.15	15.32	8.83	2.734	
1,300.00	1,299.79	1,299.76	1,299.72	4.43	4.93	115.65	-2.88	31.59	24.54	15.18	9.35	2.623	
1,400.00	1,399.79	1,399.87	1,399.83	4.77	5.21	151.66	-2.32	32.07	25.13	15.17	9.96	2.524 ES	
1,500.00	1,499.78	1,499.92	1,499.88	5.11	5.37	167.39	-1.56	32.22	26.01	15.56	10.45	2.490 SF	
1,600.00	1,599.77	1,599.27	1,599.22	5.45	5.57	-178.92	-0.81	33.54	28.54	17.54	10.99	2.596	
1,700.00	1,699.75	1,698.05	1,697.87	5.79	6.06	-171.35	0.00	38.15	34.01	22.24	11.77	2.889	
1,800.00	1,799.74	1,796.97	1,796.50	6.13	6.56	179.22	1.27	45.70	42.07	29.50	12.57	3.347	
1,900.00	1,899.73	1,895.08	1,894.08	6.47	6.98	174.06	3.05	55.67	52.83	39.50	13.33	3.964	
2,000.00	1,999.72	1,992.83	1,991.00	6.81	7.43	-169.71	5.58	68.03	66.02	51.92	14.10	4.682	
2,100.00	2,099.71	2,089.61	2,086.63	7.15	7.84	-142.67	7.97	82.70	81.67	66.84	14.83	5.507	
2,200.00	2,199.71	2,187.11	2,182.73	7.49	8.19	-165.44	9.75	99.15	99.29	83.77	15.52	6.398	
2,300.00	2,299.70	2,285.45	2,279.63	7.83	8.51	-170.57	10.12	115.92	117.49	101.30	16.19	7.255	
2,400.00	2,399.69	2,383.12	2,375.80	8.18	8.84	-158.41	9.27	132.89	136.05	119.19	16.86	8.068	
2,500.00	2,499.69	2,481.59	2,472.75	8.52	9.19	-145.12	8.34	150.09	154.36	136.80	17.56	8.791	
2,600.00	2,599.68	2,579.94	2,569.59	8.87	9.54	-154.61	7.80	167.24	172.51	154.25	18.26	9.447	
2,700.00	2,699.68	2,678.01	2,666.16	9.21	9.90	-174.65	7.50	184.37	190.60	171.63	18.97	10.048	
2,800.00	2,799.68	2,775.73	2,762.32	9.56	10.27	151.63	7.32	201.75	208.93	189.25	19.68	10.615	
2,900.00	2,899.68	2,873.63	2,858.63	9.92	10.64	119.61	7.14	219.31	227.26	206.85	20.41	11.136	
3,000.00	2,999.68	2,971.25	2,954.60	10.27	11.02	111.32	5.14	237.04	245.69	224.56	21.13	11.626	
3,100.00	3,099.67	3,068.56	3,050.21	10.62	11.40	118.03	2.04	254.90	264.57	242.71	21.86	12.104	
3,200.00	3,199.67	3,165.67	3,145.55	10.98	11.79	115.52	-1.04	273.11	283.96	261.37	22.59	12.571	
3,300.00	3,299.66	3,262.91	3,240.97	11.33	12.18	100.72	-3.77	291.62	303.42	280.09	23.33	13.006	
3,400.00	3,399.66	3,363.86	3,340.04	11.68	12.60	88.29	-6.51	310.82	322.67	298.54	24.13	13.373	
3,500.00	3,499.65	3,467.91	3,442.46	12.04	13.04	85.81	-8.40	329.05	340.23	315.27	24.97	13.628	
3,600.00	3,599.65	3,569.29	3,542.48	12.39	13.45	130.90	-9.49	345.56	356.67	330.92	25.75	13.849	
3,700.00	3,699.65	3,669.62	3,641.55	12.74	13.86	113.60	-10.23	361.41	372.78	346.25	26.53	14.052	
3,800.00	3,799.65	3,772.28	3,743.02	13.10	14.28	129.81	-10.59	376.96	388.23	360.91	27.32	14.210	
3,900.00	3,899.65	3,873.29	3,842.99	13.45	14.68	-113.45	-10.91	391.43	402.78	374.69	28.09	14.341	
4,000.00	3,999.64	3,973.77	3,942.50	13.79	15.09	-141.63	-11.47	405.36	417.14	388.29	28.84	14.463	
4,100.00	4,099.64	4,070.86	4,038.64	14.13	15.48	-144.24	-11.46	418.88	431.83	402.25	29.57	14.601	
4,200.00	4,199.64	4,164.92	4,131.66	14.48	15.86	-77.93	-10.33	432.81	447.03	416.74	30.29	14.761	
4,300.00	4,299.62	4,262.23	4,227.77	14.82	16.26	-29.53	-8.61	447.92	461.24	430.22	31.02	14.867	
4,400.00	4,399.56	4,359.00	4,323.29	15.16	16.67	-24.15	-7.04	463.34	473.95	442.19	31.76	14.923	
4,500.00	4,499.52	4,455.98	4,418.94	15.50	17.08	-20.07	-6.00	479.31	487.92	455.42	32.50	15.012	
4,600.00	4,599.48	4,558.18	4,519.80	15.84	17.51	-23.33	-5.14	495.77	501.28	467.98	33.30	15.055	
4,700.00	4,699.36	4,653.44	4,613.79	16.19	17.91	-26.21	-4.77	511.31	513.19	479.16	34.03	15.082	
4,800.00	4,799.16	4,748.90	4,707.85	16.53	18.32	-25.69	-5.02	527.57	524.61	489.85	34.76	15.091	
4,900.00	4,899.01	4,845.97	4,803.38	16.87	18.75	-23.55	-5.84	544.80	537.58	502.06	35.52	15.134	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 406H - OH / 67082 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 192-MWD+HRGM												Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,998.96	4,951.96	4,907.77	17.22	19.20	-27.30	-7.28	563.03	551.79	515.43	36.37	15.172	
5,100.00	5,098.90	5,059.97	5,014.44	17.56	19.66	-26.35	-8.61	579.96	564.52	527.30	37.22	15.168	
5,200.00	5,198.84	5,163.14	5,118.52	17.91	20.10	-29.36	-9.73	594.88	575.99	537.98	38.02	15.151	
5,300.00	5,298.82	5,260.21	5,212.58	18.26	20.50	4.83	-10.54	608.82	588.40	549.63	38.77	15.178	
5,400.00	5,398.81	5,357.17	5,308.45	18.60	20.92	132.63	-10.66	623.25	603.63	564.11	39.52	15.274	
5,500.00	5,498.79	5,454.49	5,404.66	18.96	21.33	135.22	-10.11	637.91	619.91	579.63	40.28	15.389	
5,600.00	5,598.78	5,549.55	5,498.58	19.31	21.74	142.90	-9.28	652.59	636.55	595.52	41.03	15.516	
5,700.00	5,698.77	5,649.31	5,597.08	19.66	22.16	141.31	-7.97	668.38	653.50	611.69	41.81	15.630	
5,800.00	5,798.76	5,745.40	5,691.97	20.01	22.58	133.23	-6.55	683.41	670.01	627.45	42.57	15.741	
5,900.00	5,898.75	5,840.28	5,785.57	20.36	22.99	131.36	-4.67	698.85	687.03	643.72	43.31	15.862	
6,000.00	5,998.74	5,939.80	5,883.70	20.72	23.42	130.15	-2.88	715.28	704.41	660.30	44.10	15.972	
6,100.00	6,098.73	6,039.68	5,982.26	21.07	23.85	130.26	-2.70	731.49	721.61	676.71	44.90	16.073	
6,200.00	6,198.72	6,140.63	6,081.91	21.42	24.29	129.80	-3.29	747.62	738.59	692.89	45.70	16.162	
6,300.00	6,298.70	6,242.12	6,182.15	21.77	24.73	131.51	-3.57	763.48	755.33	708.83	46.51	16.242	
6,400.00	6,398.69	6,340.01	6,278.86	22.13	25.16	-176.32	-3.75	778.62	772.15	724.87	47.28	16.332	
6,500.00	6,498.67	6,440.70	6,378.36	22.47	25.59	-147.65	-3.59	794.11	789.28	741.21	48.07	16.419	
6,600.00	6,598.65	6,539.78	6,476.28	22.82	26.02	-110.30	-3.24	809.19	806.01	757.16	48.85	16.500	
6,700.00	6,698.64	6,640.23	6,575.57	23.16	26.45	-22.74	-2.68	824.42	820.79	771.16	49.63	16.537	
6,800.00	6,798.64	6,747.97	6,682.17	23.51	26.92	3.37	-1.54	840.00	834.40	783.93	50.47	16.532	
6,900.00	6,898.64	6,852.26	6,785.47	23.86	27.35	12.80	-0.16	854.22	847.32	796.05	51.27	16.526	
7,000.00	6,998.64	6,956.49	6,888.79	24.20	27.79	-11.57	1.01	868.90	859.90	807.83	52.07	16.515	
7,100.00	7,098.63	7,060.03	6,991.53	24.55	28.22	-51.97	1.73	880.81	872.01	819.15	52.86	16.498	
7,200.00	7,198.63	7,160.88	7,091.62	24.89	28.66	-56.39	2.49	893.10	883.83	830.18	53.64	16.476	
7,300.00	7,298.63	7,261.39	7,191.40	25.23	29.11	-51.20	3.31	905.21	895.41	840.97	54.44	16.447	
7,400.00	7,398.63	7,369.80	7,299.07	25.58	29.57	-59.42	3.98	917.77	906.64	851.38	55.26	16.407	
7,500.00	7,498.62	7,465.53	7,414.20	25.92	30.03	-68.19	3.86	929.62	916.58	860.50	56.08	16.343	
7,600.00	7,598.62	7,562.85	7,555.20	26.27	30.56	-74.64	2.03	938.70	922.49	865.54	56.95	16.200	
7,700.00	7,698.61	7,738.82	7,667.07	26.62	30.93	-73.03	0.83	943.20	926.08	868.45	57.63	16.069	
7,800.00	7,798.59	7,862.57	7,790.78	26.96	31.25	-73.15	0.04	945.96	927.86	869.63	58.23	15.933	
7,900.00	7,898.58	7,972.35	7,900.55	27.31	31.31	-60.55	-1.32	946.19	927.58	868.98	58.61	15.828	
8,000.00	7,998.58	8,071.18	7,999.38	27.66	31.31	56.47	-2.39	946.05	927.03	868.08	58.95	15.725	
8,100.00	8,098.58	8,170.85	8,099.03	28.01	31.32	77.72	-3.52	945.98	926.78	867.47	59.31	15.625	
8,200.00	8,198.58	8,272.82	8,201.00	28.36	31.32	81.21	-4.45	945.87	926.57	866.92	59.65	15.534	
8,300.00	8,298.58	8,373.29	8,301.46	28.71	31.29	161.14	-5.42	945.45	926.21	866.25	59.96	15.447	
8,314.32	8,312.90	8,387.01	8,315.18	28.76	31.28	173.25	-5.56	945.41	926.21	866.20	60.01	15.435	
8,400.00	8,398.57	8,470.71	8,398.88	29.06	31.29	-147.02	-6.45	945.32	926.41	866.10	60.31	15.361	
8,500.00	8,498.57	8,568.61	8,496.78	29.40	31.33	-130.95	-7.52	945.36	926.91	866.21	60.70	15.270	
8,600.00	8,598.57	8,667.43	8,595.58	29.75	31.41	-134.23	-8.81	945.64	927.81	866.69	61.12	15.180	
8,700.00	8,698.56	8,769.82	8,697.97	30.10	31.49	-137.18	-10.08	945.86	928.87	867.34	61.52	15.098	
8,800.00	8,798.55	8,873.00	8,801.14	30.45	31.50	-144.61	-11.30	945.73	929.83	867.97	61.86	15.032	
8,900.00	8,898.54	8,977.63	8,905.77	30.80	31.44	-140.78	-12.22	945.18	930.41	868.30	62.11	14.980	
9,000.00	8,998.54	9,078.00	9,006.12	31.15	31.34	-135.45	-13.29	944.34	930.46	868.11	62.34	14.925	
9,100.00	9,098.53	9,180.34	9,108.46	31.49	31.22	-126.15	-14.27	943.37	930.16	867.62	62.55	14.872	
9,200.00	9,198.53	9,281.06	9,209.17	31.84	31.09	-116.31	-15.26	942.27	929.65	866.91	62.74	14.817	
9,300.00	9,298.52	9,384.97	9,313.05	32.19	30.95	-99.06	-16.71	940.74	928.58	865.66	62.92	14.758	
9,400.00	9,398.52	9,477.83	9,405.90	32.54	30.87	-73.73	-18.00	939.59	927.20	864.01	63.19	14.673	
9,500.00	9,498.51	9,569.08	9,497.15	32.89	30.90	-73.29	-18.56	939.38	926.77	863.19	63.58	14.575	
9,600.00	9,598.51	9,676.72	9,604.78	33.23	30.91	36.78	-19.12	939.11	926.22	862.32	63.90	14.495	
9,700.00	9,698.51	9,784.48	9,712.53	33.58	30.80	75.51	-20.37	937.84	924.65	860.57	64.08	14.430	
9,800.00	9,798.50	9,888.67	9,816.68	33.93	30.67	94.13	-22.52	935.98	922.82	858.56	64.27	14.360	
9,900.00	9,898.48	9,993.16	9,921.11	34.28	30.53	91.02	-24.85	933.62	920.77	856.33	64.44	14.289	
10,000.00	9,998.47	10,091.98	10,019.86	34.63	30.41	38.55	-27.62	931.07	917.83	853.18	64.65	14.197	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 406H - OH / 67082 - Surveys (H&P 474)												Offset Site Error:	0.00 usft
Survey Program: 192-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	10,098.45	10,194.35	10,122.16	34.98	30.29	-2.65	-30.72	928.57	913.58	848.74	64.84	14.090	
10,200.00	10,198.42	10,301.39	10,229.12	35.33	30.12	5.19	-33.07	925.30	908.34	843.38	64.95	13.985	
10,300.00	10,298.42	10,403.79	10,331.46	35.68	29.87	25.67	-33.29	921.66	903.99	838.95	65.04	13.899	
10,400.00	10,398.42	10,506.47	10,434.05	36.03	29.61	119.04	-31.85	917.80	900.01	834.90	65.11	13.822	
10,500.00	10,498.42	10,604.09	10,531.59	36.38	29.35	-143.78	-30.10	914.12	896.67	831.44	65.23	13.746	
10,600.00	10,598.41	10,702.24	10,629.66	36.72	29.10	-132.22	-28.21	910.63	893.90	828.55	65.35	13.679	
10,700.00	10,698.40	10,796.94	10,724.29	37.07	28.87	-109.43	-26.55	907.64	891.32	825.81	65.50	13.607	
10,800.00	10,798.39	10,891.35	10,818.66	37.42	28.66	-124.26	-25.04	905.26	889.53	823.85	65.67	13.544	
10,900.00	10,898.37	10,989.33	10,916.59	37.77	28.47	-126.00	-22.71	903.15	888.37	822.51	65.86	13.489	
10,975.86	10,974.22	11,060.06	10,987.27	38.04	28.36	-157.58	-20.24	901.95	888.03	821.97	66.06	13.443	
11,000.00	10,998.36	11,082.94	11,010.13	38.12	28.34	-169.42	-19.30	901.65	888.06	821.93	66.13	13.430	
11,100.00	11,098.34	11,180.05	11,107.13	38.47	28.24	166.76	-15.02	900.64	888.68	822.26	66.42	13.379	
11,200.00	11,198.33	11,285.34	11,212.31	38.82	28.13	175.35	-10.23	899.41	889.01	822.33	66.67	13.334	
11,300.00	11,298.32	11,397.18	11,324.06	39.17	27.94	156.69	-6.64	896.94	887.92	821.11	66.81	13.290	
11,400.00	11,398.31	11,506.36	11,433.14	39.52	27.70	135.29	-3.67	893.13	885.34	818.45	66.90	13.235	
11,500.00	11,498.30	11,608.94	11,535.58	39.87	27.46	132.34	-0.58	888.87	882.52	815.51	67.01	13.170	
11,600.00	11,598.26	11,707.44	11,633.93	40.22	27.23	136.35	2.81	884.74	880.14	812.97	67.16	13.105	
11,671.03	11,669.21	11,756.00	11,682.42	40.47	27.12	103.13	4.66	882.82	878.90	811.49	67.41	13.037	
11,700.00	11,698.13	11,756.00	11,682.42	40.57	27.12	98.33	4.66	882.82	879.66	812.04	67.62	13.009	
11,800.00	11,797.26	11,756.00	11,682.42	40.92	27.12	105.62	4.66	882.82	888.80	820.71	68.09	13.054	
11,900.00	11,894.04	11,756.00	11,682.42	41.25	27.12	113.38	4.66	882.82	916.68	848.46	68.22	13.437	
12,000.00	11,984.36	11,756.00	11,682.42	41.58	27.12	101.03	4.66	882.82	959.90	891.79	68.12	14.092	
12,100.00	12,063.58	11,756.00	11,682.42	41.88	27.12	88.87	4.66	882.82	1,008.63	940.74	67.90	14.856	
12,200.00	12,127.93	11,756.00	11,682.42	42.16	27.12	75.96	4.66	882.82	1,056.28	988.64	67.64	15.616	
12,300.00	12,174.23	11,756.00	11,682.42	42.41	27.12	67.21	4.66	882.82	1,092.34	1,024.98	67.36	16.217	
12,400.00	12,207.18	11,756.00	11,682.42	42.64	27.12	63.32	4.66	882.82	1,112.82	1,045.82	67.01	16.607	
12,500.00	12,226.06	11,756.00	11,682.42	42.85	27.12	61.88	4.66	882.82	1,129.76	1,063.09	66.67	16.947	
12,600.00	12,231.93	11,756.00	11,682.42	43.07	27.12	60.94	4.66	882.82	1,147.96	1,081.59	66.37	17.296	
12,700.00	12,232.01	11,756.00	11,682.42	43.31	27.12	60.58	4.66	882.82	1,171.99	1,105.89	66.10	17.731	
12,800.00	12,232.36	11,756.00	11,682.42	46.60	27.12	59.09	4.66	882.82	1,210.54	1,144.68	65.86	18.381	
12,900.00	12,231.44	11,756.00	11,682.42	46.64	27.12	58.95	4.66	882.82	1,260.85	1,195.01	65.84	19.150	
13,000.00	12,231.18	11,756.00	11,682.42	46.69	27.12	58.20	4.66	882.82	1,318.00	1,252.14	65.86	20.013	
13,100.00	12,230.71	11,756.00	11,682.42	46.74	27.12	57.28	4.66	882.82	1,382.02	1,316.11	65.91	20.969	
13,200.00	12,230.03	11,756.00	11,682.42	46.79	27.12	56.18	4.66	882.82	1,451.94	1,385.96	65.98	22.004	
13,300.00	12,229.13	11,756.00	11,682.42	46.86	27.12	54.87	4.66	882.82	1,526.89	1,460.81	66.08	23.108	
13,400.00	12,228.02	11,756.00	11,682.42	46.94	27.12	53.32	4.66	882.82	1,606.09	1,539.91	66.18	24.269	
13,500.00	12,226.71	11,756.00	11,682.42	47.07	27.12	51.49	4.66	882.82	1,688.86	1,622.57	66.29	25.477	
13,600.00	12,225.18	11,756.00	11,682.42	47.30	27.12	49.35	4.66	882.82	1,774.63	1,708.23	66.40	26.725	
13,700.00	12,223.54	11,756.00	11,682.42	47.68	27.12	49.28	4.66	882.82	1,862.40	1,795.89	66.51	28.000	
13,800.00	12,221.91	11,756.00	11,682.42	48.18	27.12	49.28	4.66	882.82	1,951.36	1,884.74	66.62	29.291	
13,900.00	12,221.16	11,756.00	11,682.42	48.74	27.12	50.62	4.66	882.82	2,041.57	1,974.86	66.72	30.601	
14,000.00	12,220.99	11,756.00	11,682.42	49.34	27.12	50.62	4.66	882.82	2,132.81	2,066.00	66.81	31.925	
14,100.00	12,220.82	11,756.00	11,682.42	49.99	27.12	50.62	4.66	882.82	2,224.80	2,157.90	66.90	33.258	
14,200.00	12,220.64	11,756.00	11,682.42	50.66	27.12	50.62	4.66	882.82	2,317.45	2,250.47	66.98	34.599	
14,300.00	12,220.47	11,756.00	11,682.42	51.36	27.12	50.62	4.66	882.82	2,410.69	2,343.63	67.07	35.946	
14,400.00	12,220.29	11,756.00	11,682.42	52.08	27.12	50.62	4.66	882.82	2,504.45	2,437.31	67.15	37.298	
14,500.00	12,220.12	11,756.00	11,682.42	52.83	27.12	50.62	4.66	882.82	2,598.68	2,531.45	67.23	38.654	
14,600.00	12,219.94	11,756.00	11,682.42	53.60	27.12	50.62	4.66	882.82	2,693.32	2,626.02	67.31	40.015	
14,700.00	12,219.77	11,756.00	11,682.42	54.40	27.12	50.62	4.66	882.82	2,788.34	2,720.95	67.39	41.378	
14,800.00	12,219.59	11,756.00	11,682.42	55.21	27.12	50.62	4.66	882.82	2,883.70	2,816.23	67.47	42.743	
14,900.00	12,219.42	11,756.00	11,682.42	56.04	27.12	50.62	4.66	882.82	2,979.36	2,911.81	67.54	44.110	
15,000.00	12,219.24	11,756.00	11,682.42	56.89	27.12	50.62	4.66	882.82	3,075.29	3,007.67	67.62	45.478	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 406H - OH / 67082 - Surveys (H&P 474)													Offset Site Error:	0.00 usft
Survey Program: 192-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,100.00	12,219.07	11,756.00	11,682.42	57.76	27.12	50.62	4.66	882.82	3,171.48	3,103.78	67.70	46.846		
15,200.00	12,218.90	11,756.00	11,682.42	58.64	27.12	50.62	4.66	882.82	3,267.89	3,200.12	67.78	48.216		
15,300.00	12,218.72	11,756.00	11,682.42	59.54	27.12	50.62	4.66	882.82	3,364.52	3,296.66	67.85	49.585		
15,400.00	12,218.55	11,756.00	11,682.42	60.46	27.12	50.62	4.66	882.82	3,461.33	3,393.40	67.93	50.954		
15,500.00	12,218.37	11,756.00	11,682.42	61.39	27.12	50.62	4.66	882.82	3,558.33	3,490.32	68.01	52.322		
15,600.00	12,218.20	11,756.00	11,682.42	62.33	27.12	50.62	4.66	882.82	3,655.48	3,587.39	68.09	53.689		
15,700.00	12,218.02	11,756.00	11,682.42	63.29	27.12	50.62	4.66	882.82	3,752.78	3,684.62	68.16	55.056		
15,800.00	12,217.85	11,756.00	11,682.42	64.25	27.12	50.62	4.66	882.82	3,850.23	3,781.99	68.24	56.421		
15,900.00	12,217.67	11,756.00	11,682.42	65.24	27.12	50.62	4.66	882.82	3,947.80	3,879.48	68.32	57.784		
16,000.00	12,217.50	11,756.00	11,682.42	66.23	27.12	50.62	4.66	882.82	4,045.49	3,977.09	68.40	59.146		
16,100.00	12,217.33	11,756.00	11,682.42	67.23	27.12	50.62	4.66	882.82	4,143.28	4,074.81	68.48	60.506		
16,200.00	12,217.15	11,756.00	11,682.42	68.24	27.12	50.62	4.66	882.82	4,241.19	4,172.63	68.56	61.864		
16,300.00	12,216.98	11,756.00	11,682.42	69.27	27.12	50.62	4.66	882.82	4,339.18	4,270.55	68.64	63.220		
16,400.00	12,216.80	11,756.00	11,682.42	70.30	27.12	50.62	4.66	882.82	4,437.27	4,368.55	68.72	64.574		
16,500.00	12,216.63	11,756.00	11,682.42	71.34	27.12	50.62	4.66	882.82	4,535.44	4,466.64	68.80	65.925		
16,600.00	12,216.45	11,756.00	11,682.42	72.39	27.12	50.62	4.66	882.82	4,633.69	4,564.81	68.88	67.274		
16,700.00	12,216.28	11,756.00	11,682.42	73.45	27.12	50.62	4.66	882.82	4,732.01	4,663.05	68.96	68.620		
16,800.00	12,216.10	11,756.00	11,682.42	74.52	27.12	50.62	4.66	882.82	4,830.40	4,761.36	69.04	69.964		
16,900.00	12,215.93	11,756.00	11,682.42	75.60	27.12	50.62	4.66	882.82	4,928.86	4,859.73	69.12	71.304		
17,000.00	12,215.75	11,756.00	11,682.42	76.68	27.12	50.62	4.66	882.82	5,027.37	4,958.17	69.21	72.642		
17,100.00	12,215.58	11,756.00	11,682.42	77.77	27.12	50.62	4.66	882.82	5,125.95	5,056.66	69.29	73.977		
17,200.00	12,215.41	11,756.00	11,682.42	78.86	27.12	50.62	4.66	882.82	5,224.58	5,155.20	69.38	75.309		
17,300.00	12,215.23	11,756.00	11,682.42	79.97	27.12	50.62	4.66	882.82	5,323.26	5,253.80	69.46	76.637		
17,400.00	12,215.06	11,756.00	11,682.42	81.07	27.12	50.62	4.66	882.82	5,421.98	5,352.44	69.55	77.963		
17,500.00	12,214.88	11,756.00	11,682.42	82.19	27.12	50.62	4.66	882.82	5,520.76	5,451.13	69.63	79.285		
17,600.00	12,214.71	11,756.00	11,682.42	83.31	27.12	50.62	4.66	882.82	5,619.57	5,549.86	69.72	80.604		
17,700.00	12,214.53	11,756.00	11,682.42	84.44	27.12	50.62	4.66	882.82	5,718.43	5,648.63	69.81	81.919		
17,800.00	12,214.36	11,756.00	11,682.42	85.57	27.12	50.62	4.66	882.82	5,817.33	5,747.44	69.89	83.231		
17,900.00	12,214.18	11,756.00	11,682.42	86.70	27.12	50.62	4.66	882.82	5,916.26	5,846.28	69.98	84.540		
18,000.00	12,214.01	11,756.00	11,682.42	87.84	27.12	50.62	4.66	882.82	6,015.23	5,945.16	70.07	85.845		
18,100.00	12,213.83	11,756.00	11,682.42	88.99	27.12	50.62	4.66	882.82	6,114.24	6,044.08	70.16	87.146		
18,200.00	12,213.66	11,756.00	11,682.42	90.14	27.12	50.62	4.66	882.82	6,213.27	6,143.02	70.25	88.444		
18,300.00	12,213.49	11,756.00	11,682.42	91.30	27.12	50.62	4.66	882.82	6,312.34	6,241.99	70.34	89.738		
18,400.00	12,213.31	11,756.00	11,682.42	92.45	27.12	50.62	4.66	882.82	6,411.43	6,341.00	70.43	91.028		
18,500.00	12,213.14	11,756.00	11,682.42	93.62	27.12	50.62	4.66	882.82	6,510.55	6,440.03	70.53	92.314		
18,600.00	12,212.96	11,756.00	11,682.42	94.78	27.12	50.62	4.66	882.82	6,609.70	6,539.08	70.62	93.597		
18,700.00	12,212.79	11,756.00	11,682.42	95.95	27.12	50.62	4.66	882.82	6,708.88	6,638.16	70.71	94.876		
18,800.00	12,212.61	11,756.00	11,682.42	97.13	27.12	50.62	4.66	882.82	6,808.07	6,737.27	70.81	96.151		
18,900.00	12,212.44	11,756.00	11,682.42	98.31	27.12	50.62	4.66	882.82	6,907.29	6,836.39	70.90	97.422		
19,000.00	12,212.26	11,756.00	11,682.42	99.49	27.12	50.62	4.66	882.82	7,006.54	6,935.54	71.00	98.689		
19,100.00	12,212.09	11,756.00	11,682.42	100.67	27.12	50.62	4.66	882.82	7,105.80	7,034.71	71.09	99.952		
19,200.00	12,211.91	11,756.00	11,682.42	101.86	27.12	50.62	4.66	882.82	7,205.09	7,133.90	71.19	101.211		
19,300.00	12,211.74	11,756.00	11,682.42	103.05	27.12	50.62	4.66	882.82	7,304.39	7,233.11	71.29	102.466		
19,400.00	12,211.57	11,756.00	11,682.42	104.24	27.12	50.62	4.66	882.82	7,403.71	7,332.33	71.38	103.717		
19,500.00	12,211.39	11,756.00	11,682.42	105.44	27.12	50.62	4.66	882.82	7,503.06	7,431.57	71.48	104.963		
19,600.00	12,211.22	11,756.00	11,682.42	106.64	27.12	50.62	4.66	882.82	7,602.41	7,530.83	71.58	106.206		
19,700.00	12,211.04	11,756.00	11,682.42	107.84	27.12	50.62	4.66	882.82	7,701.79	7,630.11	71.68	107.445		
19,800.00	12,210.87	11,756.00	11,682.42	109.04	27.12	50.62	4.66	882.82	7,801.18	7,729.40	71.78	108.679		
19,900.00	12,210.69	11,756.00	11,682.42	110.25	27.12	50.62	4.66	882.82	7,900.59	7,828.70	71.88	109.909		
20,000.00	12,210.52	11,756.00	11,682.42	111.46	27.12	50.62	4.66	882.82	8,000.01	7,928.02	71.98	111.135		
20,100.00	12,210.34	11,756.00	11,682.42	112.67	27.12	50.62	4.66	882.82	8,099.44	8,027.36	72.09	112.357		
20,200.00	12,210.17	11,756.00	11,682.42	113.88	27.12	50.62	4.66	882.82	8,198.89	8,126.70	72.19	113.574		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 406H - OH / 67082 - Surveys (H&P 474)													Offset Site Error:	0.00 usft
Survey Program: 192-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
20,300.00	12,209.99	11,756.00	11,682.42	115.10	27.12	50.62	4.66	882.82	8,298.35	8,226.06	72.29	114.787		
20,400.00	12,209.82	11,756.00	11,682.42	116.31	27.12	50.62	4.66	882.82	8,397.83	8,325.43	72.40	115.996		
20,500.00	12,209.65	11,756.00	11,682.42	117.53	27.12	50.62	4.66	882.82	8,497.32	8,424.81	72.50	117.201		
20,600.00	12,209.47	11,756.00	11,682.42	118.75	27.12	50.62	4.66	882.82	8,596.82	8,524.21	72.61	118.401		
20,700.00	12,209.30	11,756.00	11,682.42	119.98	27.12	50.62	4.66	882.82	8,696.33	8,623.61	72.71	119.597		
20,800.00	12,209.12	11,756.00	11,682.42	121.20	27.12	50.62	4.66	882.82	8,795.85	8,723.03	72.82	120.789		
20,900.00	12,208.95	11,756.00	11,682.42	122.43	27.12	50.62	4.66	882.82	8,895.38	8,822.45	72.93	121.976		
21,000.00	12,208.77	11,756.00	11,682.42	123.66	27.12	50.62	4.66	882.82	8,994.92	8,921.89	73.04	123.159		
21,100.00	12,208.60	11,756.00	11,682.42	124.89	27.12	50.62	4.66	882.82	9,094.48	9,021.33	73.14	124.337		
21,200.00	12,208.42	11,756.00	11,682.42	126.12	27.12	50.62	4.66	882.82	9,194.04	9,120.79	73.25	125.511		
21,300.00	12,208.25	11,756.00	11,682.42	127.35	27.12	50.62	4.66	882.82	9,293.61	9,220.25	73.36	126.681		
21,400.00	12,208.07	11,756.00	11,682.42	128.59	27.12	50.62	4.66	882.82	9,393.19	9,319.72	73.47	127.846		
21,500.00	12,207.90	11,756.00	11,682.42	129.82	27.12	50.62	4.66	882.82	9,492.78	9,419.20	73.58	129.007		
21,600.00	12,207.73	11,756.00	11,682.42	131.06	27.12	50.62	4.66	882.82	9,592.38	9,518.69	73.69	130.164		
21,700.00	12,207.55	11,756.00	11,682.42	132.30	27.12	50.62	4.66	882.82	9,691.99	9,618.18	73.81	131.316		
21,800.00	12,207.38	11,756.00	11,682.42	133.54	27.12	50.62	4.66	882.82	9,791.60	9,717.68	73.92	132.463		
21,900.00	12,207.20	11,756.00	11,682.42	134.78	27.12	50.62	4.66	882.82	9,891.23	9,817.19	74.03	133.607		
22,000.00	12,207.03	11,756.00	11,682.42	136.03	27.12	50.62	4.66	882.82	9,990.86	9,916.71	74.15	134.745		
22,100.00	12,206.85	11,756.00	11,682.42	137.27	27.12	50.62	4.66	882.82	10,090.49	10,016.23	74.26	135.880		
22,200.00	12,206.68	11,756.00	11,682.42	138.52	27.12	50.62	4.66	882.82	10,190.14	10,115.76	74.38	137.009		
22,300.00	12,206.50	11,756.00	11,682.42	139.76	27.12	50.62	4.66	882.82	10,289.79	10,215.30	74.49	138.135		
22,400.00	12,206.33	11,756.00	11,682.42	141.01	27.12	50.62	4.66	882.82	10,389.45	10,314.84	74.61	139.256		
22,500.00	12,206.16	11,756.00	11,682.42	142.26	27.12	50.62	4.66	882.82	10,489.11	10,414.39	74.72	140.372		
22,600.00	12,205.98	11,756.00	11,682.42	143.51	27.12	50.62	4.66	882.82	10,588.78	10,513.94	74.84	141.484		
22,700.00	12,205.81	11,756.00	11,682.42	144.76	27.12	50.62	4.66	882.82	10,688.46	10,613.50	74.96	142.591		
22,800.00	12,205.63	11,756.00	11,682.42	146.02	27.12	50.62	4.66	882.82	10,788.14	10,713.07	75.08	143.694		
22,900.00	12,205.46	11,756.00	11,682.42	147.27	27.12	50.62	4.66	882.82	10,887.83	10,812.64	75.20	144.793		
23,000.00	12,205.28	11,756.00	11,682.42	148.52	27.12	50.62	4.66	882.82	10,987.53	10,912.21	75.32	145.887		
23,100.00	12,205.11	11,756.00	11,682.42	149.78	27.12	50.62	4.66	882.82	11,087.23	11,011.79	75.44	146.977		
23,200.00	12,204.93	11,756.00	11,682.42	151.04	27.12	50.62	4.66	882.82	11,186.93	11,111.38	75.56	148.062		
23,251.42	12,204.84	11,756.00	11,682.42	151.68	27.12	50.62	4.66	882.82	11,238.20	11,162.58	75.62	148.618		



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 93H - OH / 67086 - Plan 2 01-05-21													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	2.00	1.00	1.00	-90.58	-0.76	-75.06	75.09					
100.00	100.00	98.00	100.00	1.01	1.08	-104.88	-0.76	-75.06	75.22	73.13	2.09	35.996		
200.00	199.98	197.98	199.98	1.08	1.59	-78.77	-0.76	-75.06	75.40	72.73	2.67	28.251		
300.00	299.96	297.96	299.96	1.26	2.00	-65.35	-0.76	-75.06	74.66	71.40	3.27	22.866		
371.05	371.00	369.00	371.00	1.43	2.24	-97.20	-0.76	-75.06	74.44	70.76	3.68	20.237		
400.00	399.95	397.95	399.95	1.51	2.35	-111.08	-0.76	-75.06	74.39	70.53	3.85	19.297	CC, ES	
500.00	499.92	497.92	499.92	1.79	2.65	-152.69	-0.76	-75.06	75.89	71.45	4.44	17.098		
600.00	599.89	597.89	599.89	2.09	2.92	-159.68	-0.76	-75.06	78.34	73.32	5.01	15.625		
700.00	699.85	697.85	699.85	2.41	3.17	-165.15	-0.76	-75.06	80.89	75.30	5.58	14.491		
800.00	799.82	797.82	799.82	2.74	3.41	-170.38	-0.76	-75.06	83.54	77.39	6.14	13.599		
900.00	899.80	897.80	899.80	3.07	3.63	169.79	-0.76	-75.06	85.07	78.38	6.70	12.706		
1,000.00	999.80	997.80	999.80	3.40	3.84	159.43	-0.76	-75.06	85.94	78.70	7.24	11.870		
1,100.00	1,099.80	1,097.80	1,099.80	3.74	4.04	167.34	-0.76	-75.06	86.56	78.78	7.78	11.126		
1,200.00	1,199.79	1,197.79	1,199.79	4.08	4.24	-156.96	-0.76	-75.06	87.06	78.74	8.32	10.468		
1,300.00	1,299.79	1,297.79	1,299.79	4.43	4.42	-107.44	-0.76	-75.06	87.43	78.58	8.85	9.881		
1,400.00	1,399.79	1,396.76	1,398.76	4.77	4.51	-71.24	-0.71	-75.35	87.65	78.38	9.28	9.446		
1,500.00	1,499.78	1,494.57	1,496.54	5.11	4.82	-55.02	-0.37	-77.77	89.46	79.55	9.90	9.033		
1,600.00	1,599.77	1,592.27	1,594.11	5.45	5.25	-38.89	0.33	-82.67	93.07	82.43	10.64	8.746		
1,700.00	1,699.75	1,689.75	1,691.30	5.79	5.67	-25.04	1.37	-90.01	98.89	87.51	11.38	8.692	SF	
1,800.00	1,799.74	1,786.85	1,787.90	6.13	6.10	-26.99	2.76	-99.77	107.32	95.21	12.11	8.861		
1,900.00	1,899.73	1,883.46	1,883.72	6.47	6.52	-25.49	4.49	-111.88	118.24	105.39	12.85	9.204		
2,000.00	1,999.72	1,981.44	1,980.65	6.81	6.76	-3.17	6.52	-126.13	131.31	117.89	13.42	9.784		
2,100.00	2,099.71	2,080.47	2,078.57	7.15	7.01	28.86	8.59	-140.69	144.88	130.86	14.02	10.334		
2,200.00	2,199.71	2,179.49	2,176.49	7.49	7.28	9.52	10.67	-155.26	158.51	143.87	14.64	10.825		
2,300.00	2,299.70	2,278.54	2,274.45	7.83	7.57	6.05	12.74	-169.83	171.97	156.69	15.28	11.252		
2,400.00	2,399.69	2,377.60	2,372.40	8.18	7.88	19.04	14.82	-184.40	185.49	169.55	15.94	11.638		
2,500.00	2,499.69	2,476.60	2,470.31	8.52	8.19	33.17	16.89	-198.96	199.37	182.77	16.60	12.007		
2,600.00	2,599.68	2,575.58	2,568.19	8.87	8.52	24.54	18.97	-213.52	213.41	196.13	17.28	12.349		
2,700.00	2,699.68	2,674.56	2,666.07	9.21	8.86	5.20	21.04	-228.08	227.54	209.57	17.97	12.662		
2,800.00	2,799.68	2,773.53	2,763.95	9.56	9.20	-28.01	23.12	-242.64	241.76	223.09	18.67	12.951		
2,900.00	2,899.68	2,872.49	2,861.80	9.92	9.55	-59.74	25.19	-257.19	256.15	236.77	19.37	13.221		
3,000.00	2,999.68	2,971.42	2,959.63	10.27	9.91	-68.26	27.26	-271.75	270.72	250.64	20.09	13.477		
3,100.00	3,099.67	3,070.37	3,057.49	10.62	10.28	-62.12	29.34	-286.30	285.12	264.31	20.81	13.703		
3,200.00	3,199.67	3,169.34	3,155.36	10.98	10.65	-65.18	31.41	-300.86	299.44	277.91	21.53	13.907		
3,300.00	3,299.66	3,268.28	3,253.20	11.33	11.02	-80.31	33.48	-315.41	313.97	291.71	22.26	14.104		
3,400.00	3,399.66	3,367.18	3,351.01	11.68	11.40	-93.08	35.55	-329.96	328.73	305.73	22.99	14.297		
3,500.00	3,499.65	3,466.07	3,448.80	12.04	11.78	-95.90	37.63	-344.50	343.60	319.87	23.73	14.480		
3,600.00	3,599.65	3,564.98	3,546.61	12.39	12.17	-50.67	39.70	-359.05	358.28	333.81	24.47	14.641		
3,700.00	3,699.65	3,663.92	3,644.45	12.74	12.56	-67.79	41.77	-373.61	372.80	347.58	25.22	14.784		
3,800.00	3,799.65	3,762.86	3,742.29	13.10	12.95	-51.47	43.85	-388.16	387.30	361.33	25.97	14.916		
3,900.00	3,899.65	3,861.79	3,840.12	13.45	13.34	65.45	45.92	-402.71	401.86	375.15	26.71	15.045		
4,000.00	3,999.64	3,960.74	3,937.98	13.79	13.74	37.65	47.99	-417.27	416.18	388.72	27.46	15.159		
4,100.00	4,099.64	4,059.74	4,035.88	14.13	14.14	35.49	50.07	-431.83	430.19	401.98	28.20	15.252		
4,200.00	4,199.64	4,158.70	4,133.74	14.48	14.54	102.34	52.14	-446.39	444.50	415.54	28.96	15.350		
4,300.00	4,299.62	4,257.39	4,231.34	14.82	14.95	151.28	54.21	-460.90	460.50	430.80	29.71	15.502		
4,400.00	4,399.56	4,355.73	4,328.59	15.16	15.35	157.43	56.27	-475.37	478.48	448.03	30.45	15.713		
4,500.00	4,499.52	4,454.21	4,425.97	15.50	15.75	162.14	58.33	-489.85	495.76	464.56	31.20	15.890		
4,600.00	4,599.48	4,552.64	4,523.31	15.84	16.16	159.29	60.39	-504.33	513.34	481.39	31.95	16.067		
4,700.00	4,699.36	4,650.73	4,620.31	16.19	16.57	156.84	62.45	-518.76	532.64	499.94	32.70	16.289		
4,800.00	4,799.16	4,748.54	4,717.03	16.53	16.97	158.02	64.50	-533.15	553.23	519.78	33.45	16.538		
4,900.00	4,899.01	4,846.53	4,813.93	16.87	17.38	160.80	66.55	-547.56	572.99	538.79	34.20	16.753		
5,000.00	4,998.96	4,944.89	4,911.20	17.22	17.79	157.29	68.61	-562.03	590.97	556.01	34.96	16.905		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 93H - OH / 67086 - Plan 2 01-05-21												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis					Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,098.90	5,043.25	5,008.48	17.56	18.21	158.48	70.67	-576.50	608.88	573.17	35.72	17.047	
5,200.00	5,198.84	5,141.61	5,105.74	17.91	18.62	155.70	72.73	-590.96	626.86	590.38	36.48	17.185	
5,300.00	5,298.82	5,240.17	5,203.20	18.26	19.03	-169.71	74.80	-605.46	643.73	606.49	37.24	17.286	
5,400.00	5,398.81	5,339.12	5,301.05	18.60	19.45	-41.81	76.87	-620.02	658.16	620.16	38.01	17.317	
5,500.00	5,498.79	5,438.20	5,399.03	18.96	19.87	-39.36	78.95	-634.59	671.66	632.89	38.78	17.321	
5,600.00	5,598.78	5,537.28	5,497.01	19.31	20.29	-31.76	81.03	-649.16	685.20	645.65	39.55	17.325	
5,700.00	5,698.77	5,636.34	5,594.98	19.66	20.71	-33.33	83.10	-663.74	698.82	658.50	40.32	17.331	
5,800.00	5,798.76	5,735.37	5,692.91	20.01	21.13	-41.35	85.18	-678.30	712.70	671.61	41.10	17.342	
5,900.00	5,898.75	5,834.39	5,790.83	20.36	21.55	-43.12	87.25	-692.87	726.68	684.81	41.87	17.355	
6,000.00	5,998.74	5,933.42	5,888.76	20.72	21.97	-44.26	89.33	-707.43	740.55	697.90	42.65	17.365	
6,100.00	6,098.73	6,032.47	5,986.71	21.07	22.40	-44.24	91.40	-722.00	754.30	710.88	43.42	17.371	
6,200.00	6,198.72	6,131.52	6,084.66	21.42	22.82	-44.86	93.48	-736.57	768.06	723.86	44.20	17.377	
6,300.00	6,298.70	6,230.59	6,182.63	21.77	23.24	-43.29	95.55	-751.14	781.67	736.69	44.98	17.379	
6,400.00	6,398.69	6,329.68	6,280.62	22.13	23.67	8.55	97.63	-765.72	795.09	749.34	45.76	17.377	
6,500.00	6,498.67	6,428.80	6,378.64	22.47	24.09	37.21	99.71	-780.30	808.26	761.73	46.53	17.370	
6,600.00	6,598.65	6,527.87	6,476.61	22.82	24.52	74.92	101.78	-794.87	821.70	774.40	47.31	17.370	
6,700.00	6,698.64	6,626.69	6,574.34	23.16	24.94	162.75	103.85	-809.41	836.98	788.90	48.08	17.409	
6,800.00	6,798.64	6,725.45	6,672.00	23.51	25.37	-170.94	105.92	-823.93	852.68	803.83	48.85	17.455	
6,900.00	6,898.64	6,824.24	6,769.69	23.86	25.79	-161.38	107.99	-838.47	868.20	818.58	49.62	17.496	
7,000.00	6,998.64	6,923.04	6,867.40	24.20	26.22	174.32	110.06	-853.00	883.59	833.19	50.39	17.533	
7,100.00	7,098.63	7,021.88	6,965.14	24.55	26.64	133.99	112.13	-867.54	898.81	847.64	51.17	17.566	
7,200.00	7,198.63	7,120.70	7,062.86	24.89	27.07	129.67	114.20	-882.07	914.08	862.14	51.94	17.599	
7,300.00	7,298.63	7,219.51	7,160.57	25.23	27.50	135.04	116.27	-896.61	929.45	876.74	52.71	17.632	
7,400.00	7,398.63	7,318.33	7,258.30	25.58	27.92	126.96	118.34	-911.14	944.72	891.23	53.49	17.662	
7,500.00	7,498.62	7,417.16	7,356.03	25.92	28.35	118.24	120.42	-925.68	959.96	905.69	54.26	17.691	
7,600.00	7,598.62	7,515.98	7,453.75	26.27	28.78	111.79	122.49	-940.22	975.23	920.19	55.04	17.719	
7,700.00	7,698.61	7,614.76	7,551.44	26.62	29.21	113.51	124.56	-954.75	990.68	934.86	55.81	17.750	
7,800.00	7,798.59	7,713.54	7,649.12	26.96	29.63	113.56	126.63	-969.28	1,006.17	949.58	56.59	17.780	
7,900.00	7,898.58	7,812.32	7,746.80	27.31	30.06	126.33	128.70	-983.80	1,021.67	964.30	57.37	17.809	
8,000.00	7,998.58	7,911.14	7,844.53	27.66	30.49	-116.59	130.77	-998.34	1,036.94	978.79	58.15	17.833	
8,100.00	8,098.58	8,010.02	7,942.31	28.01	30.92	-95.46	132.84	-1,012.88	1,051.90	992.98	58.93	17.851	
8,200.00	8,198.58	8,108.90	8,040.09	28.36	31.35	-92.11	134.91	-1,027.43	1,066.81	1,007.10	59.71	17.867	
8,300.00	8,298.58	8,207.80	8,137.90	28.71	31.78	-12.29	136.98	-1,041.98	1,081.58	1,021.09	60.49	17.881	
8,400.00	8,398.57	8,306.74	8,235.74	29.06	32.21	39.48	139.05	-1,056.53	1,096.13	1,034.86	61.27	17.891	
8,500.00	8,498.57	8,405.68	8,333.58	29.40	32.64	55.53	141.13	-1,071.08	1,110.59	1,048.54	62.05	17.899	
8,600.00	8,598.57	8,504.65	8,431.45	29.75	33.07	52.23	143.20	-1,085.64	1,124.93	1,062.10	62.83	17.904	
8,700.00	8,698.56	8,644.33	8,569.92	30.10	33.69	49.32	145.79	-1,103.79	1,137.35	1,073.46	63.89	17.802	
8,800.00	8,798.55	8,786.44	8,711.38	30.45	34.30	41.94	147.68	-1,117.10	1,145.85	1,080.97	64.88	17.660	
8,900.00	8,898.54	8,929.25	8,853.95	30.80	34.84	45.85	148.84	-1,125.22	1,150.60	1,084.86	65.74	17.502	
9,000.00	8,998.54	9,072.38	8,997.04	31.15	35.20	51.23	149.24	-1,128.06	1,151.83	1,085.50	66.34	17.364	
9,100.00	9,098.53	9,173.87	9,098.53	31.49	35.22	60.55	149.24	-1,128.06	1,151.28	1,084.58	66.71	17.259	
9,200.00	9,198.53	9,273.87	9,198.53	31.84	35.25	70.44	149.24	-1,128.06	1,150.83	1,083.75	67.08	17.156	
9,235.21	9,233.73	9,305.97	9,230.63	31.96	35.26	75.30	149.33	-1,128.06	1,150.73	1,083.51	67.22	17.119	
9,300.00	9,298.52	9,354.20	9,278.72	32.19	35.29	87.88	152.70	-1,128.09	1,151.22	1,083.70	67.52	17.049	
9,400.00	9,398.52	9,425.00	9,348.12	32.54	35.34	113.86	166.37	-1,128.18	1,154.43	1,086.44	67.99	16.979	
9,500.00	9,498.51	9,491.97	9,411.24	32.89	35.40	115.45	188.61	-1,128.34	1,160.61	1,092.17	68.44	16.957	
9,600.00	9,598.51	9,550.00	9,462.95	33.23	35.46	-133.16	214.86	-1,128.52	1,170.42	1,101.58	68.83	17.003	
9,700.00	9,698.51	9,600.00	9,504.67	33.58	35.52	-93.20	242.37	-1,128.71	1,184.46	1,115.34	69.11	17.138	
9,800.00	9,798.50	9,650.00	9,543.30	33.93	35.58	-73.28	274.08	-1,128.93	1,202.99	1,133.71	69.28	17.364	
9,900.00	9,898.48	9,686.63	9,569.38	34.28	35.62	-75.44	299.80	-1,129.11	1,226.56	1,157.32	69.24	17.714	
10,000.00	9,998.47	9,725.00	9,594.50	34.63	35.67	-126.91	328.78	-1,129.31	1,256.29	1,187.21	69.07	18.188	
10,100.00	10,098.45	9,750.00	9,609.58	34.98	35.71	-167.53	348.72	-1,129.45	1,293.08	1,224.40	68.67	18.829	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 93H - OH / 67086 - Plan 2 01-05-21												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.00	10,198.42	9,775.00	9,623.59	35.33	35.74	-158.94	369.41	-1,129.60	1,335.68	1,267.51	68.16	19.595	
10,300.00	10,298.42	9,800.00	9,636.51	35.68	35.78	-137.57	390.82	-1,129.75	1,382.05	1,314.49	67.57	20.455	
10,400.00	10,398.42	9,810.75	9,641.71	36.03	35.80	-43.77	400.22	-1,129.81	1,432.60	1,365.84	66.76	21.459	
10,500.00	10,498.42	9,825.00	9,648.28	36.38	35.82	53.71	412.87	-1,129.90	1,487.25	1,421.30	65.95	22.551	
10,600.00	10,598.41	9,840.40	9,654.96	36.72	35.84	65.92	426.74	-1,130.00	1,545.89	1,480.74	65.15	23.729	
10,700.00	10,698.40	9,850.00	9,658.89	37.07	35.86	89.11	435.50	-1,130.06	1,608.57	1,544.27	64.30	25.018	
10,800.00	10,798.39	9,863.26	9,664.03	37.42	35.88	74.90	447.73	-1,130.14	1,674.54	1,611.02	63.52	26.363	
10,900.00	10,898.37	9,875.00	9,668.30	37.77	35.90	73.80	458.66	-1,130.22	1,743.44	1,680.68	62.77	27.776	
11,000.00	10,998.36	9,875.00	9,668.30	38.12	35.90	31.27	458.66	-1,130.22	1,814.74	1,752.81	61.93	29.303	
11,100.00	11,098.34	9,889.84	9,673.30	38.47	35.93	8.66	472.63	-1,130.32	1,887.89	1,826.57	61.31	30.790	
11,200.00	11,198.33	9,900.00	9,676.48	38.82	35.95	17.86	482.28	-1,130.38	1,963.46	1,902.75	60.71	32.343	
11,300.00	11,298.32	9,900.00	9,676.48	39.17	35.95	-0.29	482.28	-1,130.38	2,041.27	1,981.21	60.06	33.989	
11,400.00	11,398.31	9,910.45	9,679.53	39.52	35.97	-20.73	492.28	-1,130.45	2,120.79	2,061.21	59.58	35.594	
11,500.00	11,498.30	9,925.00	9,683.41	39.87	36.00	-22.73	506.29	-1,130.55	2,201.64	2,142.44	59.21	37.187	
11,600.00	11,598.26	9,925.00	9,683.41	40.22	36.00	-18.55	506.29	-1,130.55	2,283.43	2,224.71	58.72	38.885	
11,700.00	11,698.13	9,925.00	9,683.41	40.57	36.00	-51.61	506.29	-1,130.55	2,365.94	2,307.65	58.29	40.590	
11,800.00	11,797.26	9,925.00	9,683.41	40.92	36.00	-39.22	506.29	-1,130.55	2,447.51	2,389.62	57.89	42.279	
11,900.00	11,894.04	9,950.00	9,689.08	41.25	36.05	-25.75	530.64	-1,130.72	2,522.57	2,464.89	57.68	43.737	
12,000.00	11,984.36	9,950.00	9,689.08	41.58	36.05	-25.42	530.64	-1,130.72	2,587.51	2,530.35	57.15	45.272	
12,100.00	12,063.58	9,963.88	9,691.68	41.88	36.08	-25.12	544.28	-1,130.81	2,641.71	2,584.92	56.79	46.520	
12,200.00	12,127.93	9,975.00	9,693.47	42.16	36.10	-25.13	555.25	-1,130.89	2,684.78	2,628.31	56.48	47.537	
12,300.00	12,174.23	10,000.00	9,696.56	42.41	36.15	-25.76	580.05	-1,131.06	2,719.00	2,662.49	56.51	48.116	
12,400.00	12,207.18	10,000.00	9,696.56	42.64	36.15	-25.10	580.05	-1,131.06	2,752.15	2,695.53	56.62	48.607	
12,500.00	12,226.06	10,025.00	9,698.35	42.85	36.21	-24.22	604.99	-1,131.24	2,778.14	2,721.04	57.10	48.657	
12,600.00	12,231.93	10,037.12	9,698.75	43.07	36.24	-23.78	617.10	-1,131.32	2,796.01	2,738.45	57.56	48.574	
12,700.00	12,232.01	10,082.49	9,698.89	43.31	36.36	-24.26	662.46	-1,131.64	2,811.35	2,753.01	58.34	48.187	
12,800.00	12,232.36	10,178.04	9,699.02	46.60	36.65	-25.59	758.02	-1,132.30	2,824.37	2,765.45	58.91	47.942	
12,900.00	12,231.44	10,275.56	9,699.15	46.64	37.01	-26.07	855.53	-1,132.98	2,833.27	2,773.40	59.87	47.323	
13,000.00	12,231.18	10,373.35	9,699.28	46.69	37.44	-26.60	953.32	-1,133.66	2,842.34	2,781.48	60.87	46.698	
13,100.00	12,230.71	10,471.76	9,699.41	46.74	37.92	-27.04	1,051.73	-1,134.35	2,849.90	2,788.02	61.88	46.056	
13,200.00	12,230.03	10,570.69	9,699.55	46.79	38.46	-27.42	1,150.66	-1,135.04	2,855.88	2,792.98	62.91	45.399	
13,300.00	12,229.13	10,670.04	9,699.68	46.86	39.06	-27.71	1,250.00	-1,135.73	2,860.25	2,796.31	63.94	44.730	
13,400.00	12,228.02	10,769.69	9,699.81	46.94	39.71	-27.93	1,349.65	-1,136.42	2,862.97	2,797.98	64.99	44.051	
13,500.00	12,226.71	10,869.56	9,699.95	47.07	40.41	-28.07	1,449.51	-1,137.12	2,864.01	2,797.97	66.04	43.366	
13,600.00	12,225.18	10,969.52	9,700.08	47.30	41.15	-28.14	1,549.48	-1,137.81	2,863.36	2,796.27	67.09	42.677	
13,700.00	12,223.54	11,069.51	9,700.22	47.68	41.94	-28.15	1,649.46	-1,138.51	2,861.81	2,793.65	68.16	41.987	
13,800.00	12,221.91	11,169.49	9,700.35	48.18	42.76	-28.17	1,749.44	-1,139.20	2,860.27	2,791.01	69.26	41.297	
13,900.00	12,221.16	11,269.49	9,700.48	48.74	43.62	-28.18	1,849.43	-1,139.90	2,859.51	2,789.12	70.39	40.625	
14,000.00	12,220.99	11,369.49	9,700.62	49.34	44.51	-28.18	1,949.43	-1,140.60	2,859.25	2,787.71	71.54	39.966	
14,100.00	12,220.82	11,469.49	9,700.75	49.99	45.43	-28.18	2,049.43	-1,141.29	2,859.00	2,786.27	72.73	39.311	
14,200.00	12,220.64	11,569.48	9,700.89	50.66	46.38	-28.19	2,149.42	-1,141.99	2,858.74	2,784.80	73.94	38.662	
14,300.00	12,220.47	11,669.48	9,701.02	51.36	47.36	-28.19	2,249.42	-1,142.69	2,858.48	2,783.30	75.18	38.021	
14,400.00	12,220.29	11,769.48	9,701.15	52.08	48.35	-28.19	2,349.42	-1,143.38	2,858.23	2,781.78	76.45	37.388	
14,500.00	12,220.12	11,869.48	9,701.29	52.83	49.38	-28.20	2,449.41	-1,144.08	2,857.97	2,780.23	77.74	36.763	
14,600.00	12,219.94	11,969.48	9,701.42	53.60	50.42	-28.20	2,549.41	-1,144.77	2,857.71	2,778.66	79.06	36.148	
14,700.00	12,219.77	12,069.48	9,701.55	54.40	51.48	-28.20	2,649.41	-1,145.47	2,857.46	2,777.06	80.39	35.543	
14,800.00	12,219.59	12,169.48	9,701.69	55.21	52.56	-28.21	2,749.41	-1,146.17	2,857.20	2,775.45	81.75	34.949	
14,900.00	12,219.42	12,269.48	9,701.82	56.04	53.66	-28.21	2,849.40	-1,146.86	2,856.95	2,773.81	83.14	34.365	
15,000.00	12,219.24	12,369.48	9,701.96	56.89	54.77	-28.21	2,949.40	-1,147.56	2,856.69	2,772.15	84.54	33.792	
15,100.00	12,219.07	12,469.48	9,702.09	57.76	55.89	-28.22	3,049.40	-1,148.26	2,856.43	2,770.48	85.96	33.231	
15,200.00	12,218.90	12,569.48	9,702.22	58.64	57.04	-28.22	3,149.39	-1,148.95	2,856.18	2,768.78	87.40	32.681	
15,300.00	12,218.72	12,669.48	9,702.36	59.54	58.19	-28.22	3,249.39	-1,149.65	2,855.92	2,767.07	88.85	32.143	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 93H - OH / 67086 - Plan 2 01-05-21												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis					Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toelface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,400.00	12,218.55	12,769.48	9,702.49	60.46	59.35	-28.23	3,349.39	-1,150.34	2,855.66	2,765.34	90.32	31.616	
15,500.00	12,218.37	12,869.48	9,702.63	61.39	60.53	-28.23	3,449.39	-1,151.04	2,855.41	2,763.60	91.81	31.101	
15,600.00	12,218.20	12,969.48	9,702.76	62.33	61.72	-28.23	3,549.38	-1,151.74	2,855.15	2,761.84	93.32	30.597	
15,700.00	12,218.02	13,069.48	9,702.89	63.29	62.92	-28.24	3,649.38	-1,152.43	2,854.90	2,760.06	94.83	30.104	
15,800.00	12,217.85	13,169.48	9,703.03	64.25	64.12	-28.24	3,749.38	-1,153.13	2,854.64	2,758.27	96.37	29.623	
15,900.00	12,217.67	13,269.48	9,703.16	65.24	65.34	-28.25	3,849.37	-1,153.83	2,854.38	2,756.47	97.91	29.153	
16,000.00	12,217.50	13,369.48	9,703.30	66.23	66.56	-28.25	3,949.37	-1,154.52	2,854.13	2,754.66	99.47	28.694	
16,100.00	12,217.33	13,469.48	9,703.43	67.23	67.80	-28.25	4,049.37	-1,155.22	2,853.87	2,752.83	101.04	28.246	
16,200.00	12,217.15	13,569.48	9,703.56	68.24	69.04	-28.26	4,149.36	-1,155.91	2,853.62	2,751.00	102.62	27.808	
16,300.00	12,216.98	13,669.47	9,703.70	69.27	70.29	-28.26	4,249.36	-1,156.61	2,853.36	2,749.15	104.21	27.381	
16,400.00	12,216.80	13,769.47	9,703.83	70.30	71.54	-28.26	4,349.36	-1,157.31	2,853.10	2,747.29	105.81	26.964	
16,500.00	12,216.63	13,869.47	9,703.97	71.34	72.80	-28.27	4,449.36	-1,158.00	2,852.85	2,745.42	107.43	26.557	
16,600.00	12,216.45	13,969.47	9,704.10	72.39	74.07	-28.27	4,549.35	-1,158.70	2,852.59	2,743.54	109.05	26.159	
16,700.00	12,216.28	14,069.47	9,704.23	73.45	75.34	-28.27	4,649.35	-1,159.40	2,852.34	2,741.66	110.68	25.771	
16,800.00	12,216.10	14,169.47	9,704.37	74.52	76.62	-28.28	4,749.35	-1,160.09	2,852.08	2,739.76	112.32	25.392	
16,900.00	12,215.93	14,269.47	9,704.50	75.60	77.90	-28.28	4,849.34	-1,160.79	2,851.82	2,737.85	113.97	25.023	
17,000.00	12,215.75	14,369.47	9,704.64	76.68	79.19	-28.28	4,949.34	-1,161.48	2,851.57	2,735.94	115.63	24.662	
17,100.00	12,215.58	14,469.47	9,704.77	77.77	80.49	-28.29	5,049.34	-1,162.18	2,851.31	2,734.02	117.29	24.310	
17,200.00	12,215.41	14,569.47	9,704.90	78.86	81.78	-28.29	5,149.33	-1,162.88	2,851.06	2,732.09	118.96	23.966	
17,300.00	12,215.23	14,669.47	9,705.04	79.97	83.09	-28.29	5,249.33	-1,163.57	2,850.80	2,730.16	120.64	23.630	
17,400.00	12,215.06	14,769.47	9,705.17	81.07	84.39	-28.30	5,349.33	-1,164.27	2,850.54	2,728.22	122.33	23.302	
17,500.00	12,214.88	14,869.47	9,705.31	82.19	85.70	-28.30	5,449.33	-1,164.97	2,850.29	2,726.27	124.02	22.982	
17,600.00	12,214.71	14,969.47	9,705.44	83.31	87.02	-28.31	5,549.32	-1,165.66	2,850.03	2,724.31	125.72	22.670	
17,700.00	12,214.53	15,069.47	9,705.57	84.44	88.34	-28.31	5,649.32	-1,166.36	2,849.78	2,722.35	127.42	22.364	
17,800.00	12,214.36	15,169.47	9,705.71	85.57	89.66	-28.31	5,749.32	-1,167.05	2,849.52	2,720.38	129.14	22.066	
17,900.00	12,214.18	15,269.47	9,705.84	86.70	90.98	-28.32	5,849.31	-1,167.75	2,849.26	2,718.41	130.85	21.775	
18,000.00	12,214.01	15,369.47	9,705.98	87.84	92.31	-28.32	5,949.31	-1,168.45	2,849.01	2,716.43	132.57	21.490	
18,100.00	12,213.83	15,469.47	9,706.11	88.99	93.64	-28.32	6,049.31	-1,169.14	2,848.75	2,714.45	134.30	21.212	
18,200.00	12,213.66	15,569.47	9,706.24	90.14	94.98	-28.33	6,149.30	-1,169.84	2,848.50	2,712.46	136.03	20.940	
18,300.00	12,213.49	15,669.47	9,706.38	91.30	96.32	-28.33	6,249.30	-1,170.54	2,848.24	2,710.47	137.77	20.674	
18,400.00	12,213.31	15,769.46	9,706.51	92.45	97.66	-28.33	6,349.30	-1,171.23	2,847.98	2,708.47	139.51	20.414	
18,500.00	12,213.14	15,869.46	9,706.64	93.62	99.00	-28.34	6,449.30	-1,171.93	2,847.73	2,706.47	141.26	20.160	
18,600.00	12,212.96	15,969.46	9,706.78	94.78	100.34	-28.34	6,549.29	-1,172.62	2,847.47	2,704.46	143.01	19.911	
18,700.00	12,212.79	16,069.46	9,706.91	95.95	101.69	-28.34	6,649.29	-1,173.32	2,847.22	2,702.45	144.76	19.668	
18,800.00	12,212.61	16,169.46	9,707.05	97.13	103.04	-28.35	6,749.29	-1,174.02	2,846.96	2,700.44	146.52	19.430	
18,900.00	12,212.44	16,269.46	9,707.18	98.31	104.39	-28.35	6,849.28	-1,174.71	2,846.70	2,698.42	148.28	19.198	
19,000.00	12,212.26	16,369.46	9,707.31	99.49	105.75	-28.35	6,949.28	-1,175.41	2,846.45	2,696.40	150.05	18.970	
19,100.00	12,212.09	16,469.46	9,707.45	100.67	107.11	-28.36	7,049.28	-1,176.10	2,846.19	2,694.37	151.82	18.747	
19,200.00	12,211.91	16,569.46	9,707.58	101.86	108.46	-28.36	7,149.27	-1,176.80	2,845.94	2,692.34	153.59	18.529	
19,300.00	12,211.74	16,669.46	9,707.72	103.05	109.82	-28.37	7,249.27	-1,177.50	2,845.68	2,690.31	155.37	18.316	
19,400.00	12,211.57	16,769.46	9,707.85	104.24	111.19	-28.37	7,349.27	-1,178.19	2,845.43	2,688.28	157.15	18.106	
19,500.00	12,211.39	16,869.46	9,707.98	105.44	112.55	-28.37	7,449.27	-1,178.89	2,845.17	2,686.24	158.93	17.902	
19,600.00	12,211.22	16,969.46	9,708.12	106.64	113.92	-28.38	7,549.26	-1,179.59	2,844.91	2,684.20	160.72	17.701	
19,700.00	12,211.04	17,069.46	9,708.25	107.84	115.28	-28.38	7,649.26	-1,180.28	2,844.66	2,682.15	162.51	17.505	
19,800.00	12,210.87	17,169.46	9,708.39	109.04	116.65	-28.38	7,749.26	-1,180.98	2,844.40	2,680.10	164.30	17.312	
19,900.00	12,210.69	17,269.46	9,708.52	110.25	118.02	-28.39	7,849.25	-1,181.67	2,844.15	2,678.05	166.09	17.124	
20,000.00	12,210.52	17,369.46	9,708.65	111.46	119.40	-28.39	7,949.25	-1,182.37	2,843.89	2,676.00	167.89	16.939	
20,100.00	12,210.34	17,469.46	9,708.79	112.67	120.77	-28.39	8,049.25	-1,183.07	2,843.64	2,673.95	169.69	16.758	
20,200.00	12,210.17	17,569.46	9,708.92	113.88	122.15	-28.40	8,149.24	-1,183.76	2,843.38	2,671.89	171.49	16.580	
20,300.00	12,209.99	17,669.46	9,709.06	115.10	123.52	-28.40	8,249.24	-1,184.46	2,843.12	2,669.83	173.30	16.406	
20,400.00	12,209.82	17,769.46	9,709.19	116.31	124.90	-28.40	8,349.24	-1,185.16	2,842.87	2,667.76	175.11	16.235	
20,500.00	12,209.65	17,869.45	9,709.32	117.53	126.28	-28.41	8,449.24	-1,185.85	2,842.61	2,665.70	176.91	16.068	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 93H - OH / 67086 - Plan 2 01-05-21													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Measured Depth (usft)	Reference Vertical Depth (usft)	Measured Depth (usft)	Offset Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,600.00	12,209.47	17,969.45	9,709.46	118.75	127.66	-28.41	8,549.23	-1,186.55	2,842.36	2,663.63	178.73	15.903		
20,700.00	12,209.30	18,069.45	9,709.59	119.98	129.04	-28.41	8,649.23	-1,187.24	2,842.10	2,661.56	180.54	15.742		
20,800.00	12,209.12	18,169.45	9,709.73	121.20	130.42	-28.42	8,749.23	-1,187.94	2,841.85	2,659.49	182.36	15.584		
20,900.00	12,208.95	18,269.45	9,709.86	122.43	131.81	-28.42	8,849.22	-1,188.64	2,841.59	2,657.42	184.17	15.429		
21,000.00	12,208.77	18,369.45	9,709.99	123.66	133.19	-28.43	8,949.22	-1,189.33	2,841.34	2,655.34	185.99	15.276		
21,100.00	12,208.60	18,469.45	9,710.13	124.89	134.58	-28.43	9,049.22	-1,190.03	2,841.08	2,653.26	187.82	15.127		
21,200.00	12,208.42	18,569.45	9,710.26	126.12	135.97	-28.43	9,149.21	-1,190.73	2,840.82	2,651.18	189.64	14.980		
21,300.00	12,208.25	18,669.45	9,710.40	127.35	137.35	-28.44	9,249.21	-1,191.42	2,840.57	2,649.10	191.47	14.836		
21,400.00	12,208.07	18,769.45	9,710.53	128.59	138.74	-28.44	9,349.21	-1,192.12	2,840.31	2,647.02	193.29	14.694		
21,500.00	12,207.90	18,869.45	9,710.66	129.82	140.13	-28.44	9,449.21	-1,192.81	2,840.06	2,644.94	195.12	14.555		
21,600.00	12,207.73	18,969.45	9,710.80	131.06	141.52	-28.45	9,549.20	-1,193.51	2,839.80	2,642.85	196.95	14.419		
21,700.00	12,207.55	19,069.45	9,710.93	132.30	142.92	-28.45	9,649.20	-1,194.21	2,839.55	2,640.76	198.79	14.284		
21,800.00	12,207.38	19,169.45	9,711.06	133.54	144.31	-28.45	9,749.20	-1,194.90	2,839.29	2,638.67	200.62	14.153		
21,900.00	12,207.20	19,269.45	9,711.20	134.78	145.70	-28.46	9,849.19	-1,195.60	2,839.04	2,636.58	202.46	14.023		
22,000.00	12,207.03	19,369.45	9,711.33	136.03	147.10	-28.46	9,949.19	-1,196.30	2,838.78	2,634.49	204.29	13.896		
22,100.00	12,206.85	19,469.45	9,711.47	137.27	148.49	-28.46	10,049.19	-1,196.99	2,838.52	2,632.39	206.13	13.770		
22,200.00	12,206.68	19,569.45	9,711.60	138.52	149.89	-28.47	10,149.18	-1,197.69	2,838.27	2,630.30	207.97	13.647		
22,300.00	12,206.50	19,669.45	9,711.73	139.76	151.28	-28.47	10,249.18	-1,198.38	2,838.01	2,628.20	209.81	13.526		
22,400.00	12,206.33	19,769.45	9,711.87	141.01	152.68	-28.48	10,349.18	-1,199.08	2,837.76	2,626.10	211.66	13.407		
22,500.00	12,206.16	19,869.45	9,712.00	142.26	154.08	-28.48	10,449.18	-1,199.78	2,837.50	2,624.00	213.50	13.290		
22,600.00	12,205.98	19,969.44	9,712.14	143.51	155.48	-28.48	10,549.17	-1,200.47	2,837.25	2,621.90	215.35	13.175		
22,700.00	12,205.81	20,069.44	9,712.27	144.76	156.88	-28.49	10,649.17	-1,201.17	2,836.99	2,619.80	217.19	13.062		
22,800.00	12,205.63	20,169.44	9,712.40	146.02	158.28	-28.49	10,749.17	-1,201.87	2,836.74	2,617.70	219.04	12.951		
22,900.00	12,205.46	20,269.44	9,712.54	147.27	159.68	-28.49	10,849.16	-1,202.56	2,836.48	2,615.59	220.89	12.841		
23,000.00	12,205.28	20,369.44	9,712.67	148.52	161.08	-28.50	10,949.16	-1,203.26	2,836.23	2,613.49	222.74	12.733		
23,100.00	12,205.11	20,469.44	9,712.81	149.78	162.48	-28.50	11,049.16	-1,203.95	2,835.97	2,611.38	224.59	12.627		
23,200.00	12,204.93	20,569.44	9,712.94	151.04	163.89	-28.50	11,149.15	-1,204.65	2,835.72	2,609.27	226.45	12.523		
23,251.42	12,204.84	20,614.32	9,713.00	151.68	164.52	-28.51	11,194.04	-1,204.96	2,835.59	2,608.24	227.35	12.473		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 95H - OH - Plan 3 11-24-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	1.50	1.00	1.00	89.42	2.18	214.95	214.96					
100.00	100.00	98.50	100.00	1.01	1.09	75.70	2.18	214.95	214.81	212.72	2.09	102.576		
174.07	174.06	172.56	174.06	1.06	1.43	98.29	2.18	214.95	214.79	212.30	2.49	86.257		
200.00	199.98	198.48	199.98	1.08	1.59	103.43	2.18	214.95	214.67	211.99	2.68	80.214		
300.00	299.96	298.46	299.96	1.26	2.01	118.75	2.18	214.95	215.50	212.23	3.27	65.888		
400.00	399.95	398.45	399.95	1.51	2.35	74.88	2.18	214.95	215.94	212.08	3.86	55.951		
500.00	499.92	498.42	499.92	1.79	2.65	34.84	2.18	214.95	214.62	210.18	4.44	48.313		
600.00	599.89	598.39	599.89	2.09	2.92	28.99	2.18	214.95	212.34	207.33	5.02	42.323		
700.00	699.85	698.35	699.85	2.41	3.18	24.43	2.18	214.95	209.95	204.37	5.59	37.591		
800.00	799.82	798.32	799.82	2.74	3.41	19.90	2.18	214.95	207.45	201.30	6.15	33.753		
900.00	899.80	898.30	899.80	3.07	3.63	0.20	2.18	214.95	205.94	199.25	6.70	30.745		
1,000.00	999.80	998.30	999.80	3.40	3.84	-10.37	2.18	214.95	205.04	197.80	7.24	28.310		
1,100.00	1,099.80	1,098.30	1,099.80	3.74	4.05	-2.63	2.18	214.95	204.40	196.62	7.78	26.264		
1,200.00	1,199.79	1,198.29	1,199.79	4.08	4.24	33.12	2.18	214.95	203.91	195.59	8.32	24.511		
1,300.00	1,299.79	1,298.29	1,299.79	4.43	4.43	83.02	2.18	214.95	203.61	194.76	8.85	23.004		
1,313.50	1,313.30	1,311.80	1,313.30	4.47	4.44	90.00	2.18	214.95	203.60	194.69	8.91	22.848 CC		
1,400.00	1,399.79	1,399.06	1,400.56	4.77	4.52	119.72	2.48	214.87	203.71	194.42	9.28	21.940		
1,500.00	1,499.78	1,500.62	1,502.08	5.11	4.86	135.73	5.05	214.20	203.74	193.94	9.80	20.790		
1,600.00	1,599.77	1,600.58	1,601.96	5.45	5.15	151.07	8.85	213.23	204.10	193.78	10.32	19.778		
1,700.00	1,699.75	1,700.53	1,701.84	5.79	5.36	163.38	12.64	212.25	204.68	193.85	10.83	18.907		
1,800.00	1,799.74	1,800.47	1,801.70	6.13	5.57	159.38	16.43	211.27	205.12	193.79	11.33	18.104		
1,900.00	1,899.73	1,900.42	1,901.57	6.47	5.80	158.77	20.23	210.29	205.63	193.79	11.83	17.377		
2,000.00	1,999.72	2,000.36	2,001.43	6.81	6.03	178.83	24.02	209.31	206.04	193.70	12.33	16.706		
2,100.00	2,099.71	2,100.27	2,101.27	7.15	6.28	-151.61	27.81	208.34	206.24	193.41	12.83	16.079		
2,200.00	2,199.71	2,200.18	2,201.11	7.49	6.53	-173.26	31.61	207.36	206.53	193.21	13.32	15.507		
2,300.00	2,299.70	2,300.10	2,300.95	7.83	6.78	-178.71	35.40	206.38	207.11	193.30	13.81	14.997		
2,400.00	2,399.69	2,400.02	2,400.79	8.18	7.04	-167.59	39.19	205.40	207.75	193.45	14.30	14.528		
2,500.00	2,499.69	2,499.93	2,500.62	8.52	7.31	-155.36	42.98	204.42	208.16	193.38	14.79	14.078		
2,600.00	2,599.68	2,599.84	2,600.46	8.87	7.58	-165.78	46.78	203.45	208.53	193.26	15.27	13.655		
2,700.00	2,699.68	2,699.76	2,700.30	9.21	7.85	173.28	50.57	202.47	208.86	193.10	15.76	13.255		
2,800.00	2,799.68	2,799.70	2,800.16	9.56	8.13	138.67	54.36	201.49	209.12	192.87	16.25	12.872		
2,900.00	2,899.68	2,899.64	2,900.02	9.92	8.41	105.73	58.16	200.51	209.22	192.48	16.73	12.503		
3,000.00	2,899.68	2,899.58	2,899.89	10.27	8.69	96.09	61.95	199.53	209.15	191.93	17.22	12.144		
3,009.74	3,009.41	3,009.31	3,009.61	10.30	8.72	96.76	62.32	199.44	209.15	191.88	17.27	12.111		
3,100.00	3,099.67	3,099.54	3,099.77	10.62	8.97	101.29	65.74	198.55	209.22	191.51	17.71	11.813		
3,200.00	3,199.67	3,199.49	3,199.65	10.98	9.26	97.35	69.54	197.58	209.39	191.19	18.20	11.506		
3,300.00	3,299.66	3,299.45	3,299.53	11.33	9.55	81.28	73.33	196.60	209.42	190.74	18.69	11.208		
3,400.00	3,399.66	3,399.41	3,399.41	11.68	9.84	67.66	77.13	195.62	209.21	190.04	19.17	10.912		
3,500.00	3,499.65	3,499.36	3,499.28	12.04	10.14	64.01	80.92	194.64	208.97	189.31	19.66	10.629		
3,501.15	3,500.80	3,500.51	3,500.43	12.04	10.14	64.00	80.96	194.63	208.97	189.30	19.67	10.626		
3,600.00	3,599.65	3,599.30	3,599.14	12.39	10.43	108.11	84.71	193.66	209.17	189.02	20.15	10.381		
3,700.00	3,699.65	3,699.24	3,699.01	12.74	10.73	89.94	88.51	192.68	209.53	188.89	20.64	10.151		
3,800.00	3,799.65	3,799.18	3,798.88	13.10	11.03	105.29	92.30	191.71	209.93	188.80	21.14	9.933		
3,900.00	3,899.65	3,899.11	3,898.72	13.45	11.33	-138.96	96.10	190.73	210.61	188.98	21.63	9.739		
4,000.00	3,999.64	3,999.01	3,998.55	13.79	11.63	-168.12	99.89	189.75	211.76	189.65	22.12	9.574		
4,100.00	4,099.64	4,098.92	4,098.38	14.13	11.93	-171.60	103.68	188.77	213.32	190.71	22.62	9.432		
4,200.00	4,199.64	4,198.83	4,198.22	14.48	12.23	-106.01	107.47	187.79	214.59	191.47	23.12	9.282		
4,300.00	4,299.62	4,298.69	4,298.00	14.82	12.54	-58.62	111.26	186.82	214.68	191.05	23.63	9.084		
4,400.00	4,399.56	4,398.46	4,397.69	15.16	12.84	-54.56	115.05	185.84	213.53	189.36	24.17	8.835		
4,500.00	4,499.52	4,498.28	4,497.44	15.50	13.14	-51.68	118.84	184.86	212.85	188.14	24.71	8.614		
4,600.00	4,599.48	4,598.09	4,597.17	15.84	13.45	-56.33	122.63	183.89	212.16	186.89	25.27	8.397		
4,700.00	4,699.36	4,697.76	4,696.77	16.19	13.76	-61.11	126.41	182.91	210.78	184.92	25.87	8.149		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 95H - OH - Plan 3 11-24-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,800.00	4,799.16	4,797.32	4,796.24	16.53	14.06	-62.79	130.19	181.94	209.17	182.66	26.51	7.889		
4,900.00	4,899.01	4,896.96	4,895.81	16.87	14.37	-62.65	133.97	180.96	208.19	181.02	27.17	7.662		
4,942.55	4,941.53	4,939.40	4,938.22	17.02	14.50	-64.85	135.58	180.55	208.12	180.67	27.45	7.582		
5,000.00	4,998.96	4,996.74	4,995.51	17.22	14.68	-68.16	137.76	179.98	208.35	180.54	27.82	7.490		
5,100.00	5,098.90	5,096.52	5,095.21	17.56	14.98	-68.95	141.55	179.01	208.84	180.36	28.48	7.333 ES		
5,200.00	5,198.84	5,196.29	5,194.91	17.91	15.29	-73.72	145.33	178.03	209.57	180.41	29.16	7.187		
5,300.00	5,298.82	5,296.13	5,294.68	18.26	15.60	-40.86	149.12	177.05	210.64	180.82	29.82	7.063		
5,400.00	5,398.81	5,396.08	5,394.55	18.60	15.91	86.29	152.92	176.08	212.24	181.82	30.42	6.977		
5,500.00	5,498.79	5,496.05	5,494.44	18.96	16.22	88.40	156.71	175.10	214.15	183.16	31.00	6.909		
5,600.00	5,598.78	5,596.02	5,594.33	19.31	16.54	95.61	160.51	174.12	216.27	184.69	31.58	6.848		
5,700.00	5,698.77	5,695.97	5,694.21	19.66	16.85	93.58	164.30	173.14	218.49	186.32	32.17	6.791		
5,800.00	5,798.76	5,795.93	5,794.09	20.01	17.16	85.05	168.10	172.16	220.55	187.78	32.78	6.729		
5,900.00	5,898.75	5,895.89	5,893.97	20.36	17.47	82.76	171.89	171.18	222.57	189.18	33.38	6.667		
6,000.00	5,998.74	5,995.85	5,993.86	20.72	17.78	81.16	175.68	170.21	224.52	190.54	33.99	6.606		
6,100.00	6,098.73	6,095.82	6,093.75	21.07	18.10	80.77	179.48	169.23	226.47	191.88	34.59	6.548		
6,200.00	6,198.72	6,195.79	6,193.64	21.42	18.41	79.77	183.27	168.25	228.42	193.23	35.19	6.491		
6,300.00	6,298.70	6,295.76	6,293.53	21.77	18.72	81.02	187.07	167.27	230.35	194.56	35.79	6.436		
6,400.00	6,398.69	6,395.71	6,393.41	22.13	19.04	132.61	190.86	166.29	232.76	196.37	36.39	6.396		
6,500.00	6,498.67	6,495.60	6,493.22	22.47	19.35	160.69	194.65	165.31	236.84	199.82	37.02	6.397		
6,600.00	6,598.65	6,595.47	6,593.02	22.82	19.67	-162.40	198.45	164.34	241.10	203.44	37.66	6.401		
6,700.00	6,698.64	6,695.37	6,692.83	23.16	19.98	-75.58	202.24	163.36	243.68	205.33	38.34	6.355		
6,800.00	6,798.64	6,795.27	6,792.66	23.51	20.29	-50.24	206.03	162.38	245.70	206.66	39.03	6.294		
6,900.00	6,898.64	6,895.19	6,892.50	23.86	20.61	-41.54	209.82	161.40	247.66	207.94	39.72	6.235		
7,000.00	6,998.64	6,995.11	6,992.34	24.20	20.92	-66.62	213.61	160.42	249.82	209.41	40.41	6.183		
7,100.00	7,098.63	7,095.02	7,092.18	24.55	21.24	-107.75	217.41	159.45	252.34	211.24	41.09	6.141		
7,200.00	7,198.63	7,194.91	7,192.00	24.89	21.55	-112.90	221.20	158.47	255.16	213.37	41.79	6.106		
7,300.00	7,298.63	7,294.81	7,291.81	25.23	21.87	-108.40	224.99	157.49	258.04	215.55	42.49	6.073		
7,400.00	7,398.63	7,394.70	7,391.63	25.58	22.19	-117.31	228.78	156.51	260.94	217.75	43.19	6.042		
7,500.00	7,498.62	7,494.60	7,491.45	25.92	22.50	-126.80	232.57	155.54	264.01	220.11	43.89	6.015		
7,600.00	7,598.62	7,594.47	7,591.25	26.27	22.82	-134.06	236.37	154.56	267.47	222.86	44.60	5.997		
7,700.00	7,698.61	7,694.32	7,691.02	26.62	23.13	-133.24	240.16	153.58	271.32	225.99	45.33	5.986		
7,800.00	7,798.59	7,794.17	7,790.79	26.96	23.45	-134.11	243.95	152.60	275.22	229.16	46.05	5.976		
7,900.00	7,898.58	7,894.02	7,890.57	27.31	23.77	-122.29	247.74	151.63	279.12	232.34	46.78	5.966		
8,000.00	7,998.58	7,993.94	7,990.41	27.66	24.08	-5.97	251.53	150.65	281.89	234.40	47.48	5.936		
8,100.00	8,098.58	8,093.88	8,090.27	28.01	24.40	14.65	255.32	149.67	284.09	235.92	48.17	5.898		
8,200.00	8,198.58	8,193.82	8,190.14	28.36	24.72	17.56	259.12	148.69	286.44	237.58	48.86	5.863		
8,300.00	8,298.58	8,293.76	8,290.00	28.71	25.03	96.93	262.91	147.71	289.20	239.66	49.54	5.837		
8,400.00	8,398.57	8,393.68	8,389.84	29.06	25.35	148.26	266.70	146.74	292.40	242.17	50.23	5.822		
8,500.00	8,498.57	8,493.59	8,489.67	29.40	25.67	163.85	270.50	145.76	295.96	245.05	50.91	5.814		
8,600.00	8,598.57	8,593.49	8,589.50	29.75	25.98	160.09	274.29	144.78	299.83	248.24	51.59	5.812		
8,700.00	8,698.56	8,695.86	8,691.79	30.10	26.29	156.73	277.97	143.83	303.77	251.52	52.25	5.814		
8,800.00	8,798.55	8,802.43	8,798.36	30.45	26.51	149.22	279.49	143.44	306.13	253.34	52.79	5.799		
8,900.00	8,898.54	8,902.62	8,898.54	30.80	26.58	153.17	279.50	143.44	307.33	254.14	53.19	5.777		
9,000.00	8,998.54	9,002.61	8,998.54	31.15	26.62	158.58	279.50	143.44	308.39	254.81	53.58	5.755 SF		
9,100.00	9,098.53	9,075.00	9,070.82	31.49	26.78	167.75	282.21	143.82	313.17	259.13	54.03	5.796		
9,200.00	9,198.53	9,132.12	9,127.12	31.84	27.03	177.14	291.62	145.14	329.98	275.86	54.13	6.097		
9,300.00	9,298.52	9,188.57	9,181.24	32.19	27.29	-166.35	307.38	147.35	358.27	304.39	53.88	6.649		
9,400.00	9,398.52	9,240.56	9,229.11	32.54	27.55	-141.88	327.40	150.17	396.66	343.33	53.33	7.438		
9,500.00	9,498.51	9,287.41	9,270.14	32.89	27.78	-142.33	349.75	153.31	444.59	392.04	52.54	8.461		
9,600.00	9,598.51	9,325.00	9,301.34	33.23	27.96	-33.11	370.51	156.23	499.89	448.47	51.42	9.722		
9,700.00	9,698.51	9,366.73	9,333.92	33.58	28.16	4.54	396.31	159.85	561.15	510.49	50.65	11.079		
9,800.00	9,798.50	9,400.00	9,358.18	33.93	28.31	22.09	418.84	163.02	627.87	578.17	49.71	12.632		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.00	9,898.48	9,425.00	9,375.34	34.28	28.41	18.35	436.84	165.55	699.21	650.56	48.64	14.374	
10,000.00	9,998.47	9,450.00	9,391.53	34.63	28.52	-33.90	455.70	168.20	774.53	726.69	47.84	16.190	
10,100.00	10,098.45	9,475.00	9,406.69	34.98	28.61	-74.47	475.38	170.97	853.42	806.14	47.27	18.052	
10,200.00	10,198.42	9,500.00	9,420.80	35.33	28.71	-68.42	495.82	173.84	935.26	888.38	46.89	19.946	
10,300.00	10,298.42	9,514.62	9,428.54	35.68	28.76	-48.95	508.10	175.56	1,019.38	973.07	46.32	22.009	
10,400.00	10,398.42	9,525.00	9,433.81	36.03	28.80	43.74	516.95	176.81	1,105.49	1,059.71	45.78	24.148	
10,500.00	10,498.42	9,550.00	9,445.70	36.38	28.87	140.24	538.75	179.67	1,193.33	1,147.58	45.76	26.080	
10,600.00	10,598.41	9,550.00	9,445.70	36.72	28.87	152.04	538.75	179.67	1,282.83	1,237.60	45.22	28.366	
10,700.00	10,698.40	9,575.00	9,456.48	37.07	28.95	175.19	561.16	182.24	1,373.45	1,328.06	45.39	30.262	
10,800.00	10,798.39	9,575.00	9,456.48	37.42	28.95	159.94	561.16	182.24	1,465.10	1,420.03	45.06	32.511	
10,900.00	10,898.37	9,589.42	9,462.17	37.77	28.99	158.06	574.34	183.59	1,557.63	1,512.51	45.12	34.521	
11,000.00	10,998.36	9,600.00	9,466.10	38.12	29.02	113.75	584.12	184.51	1,650.65	1,605.50	45.14	36.564	
11,100.00	11,098.34	9,600.00	9,466.10	38.47	29.02	89.76	584.12	184.51	1,743.93	1,698.92	45.01	38.742	
11,200.00	11,198.33	9,613.92	9,470.95	38.82	29.05	99.15	597.11	185.65	1,837.69	1,792.51	45.18	40.679	
11,300.00	11,298.32	9,625.00	9,474.55	39.17	29.08	80.99	607.56	186.49	1,931.99	1,886.67	45.32	42.628	
11,400.00	11,398.31	9,625.00	9,474.55	39.52	29.08	59.24	607.56	186.49	2,026.50	1,981.17	45.33	44.707	
11,500.00	11,498.30	9,625.00	9,474.55	39.87	29.08	55.44	607.56	186.49	2,121.36	2,075.99	45.37	46.755	
11,600.00	11,598.26	9,639.40	9,478.87	40.22	29.11	58.04	621.26	187.49	2,216.30	2,170.66	45.64	48.562	
11,700.00	11,698.13	9,650.00	9,481.80	40.57	29.14	19.61	631.43	188.16	2,311.02	2,265.17	45.85	50.400	
11,800.00	11,797.26	9,650.00	9,481.80	40.92	29.14	20.45	631.43	188.16	2,403.10	2,357.21	45.89	52.364	
11,900.00	11,894.04	9,650.00	9,481.80	41.25	29.14	20.05	631.43	188.16	2,491.77	2,445.88	45.89	54.298	
12,000.00	11,984.36	9,675.00	9,487.82	41.58	29.18	13.12	655.65	189.52	2,571.58	2,525.51	46.07	55.822	
12,100.00	12,063.58	9,675.00	9,487.82	41.88	29.18	9.23	655.65	189.52	2,637.78	2,591.92	45.86	57.515	
12,200.00	12,127.93	9,700.00	9,492.61	42.16	29.22	6.24	680.16	190.56	2,687.66	2,641.84	45.82	58.661	
12,300.00	12,174.23	9,700.00	9,492.61	42.41	29.22	3.57	680.16	190.56	2,718.88	2,673.39	45.49	59.773	
12,400.00	12,207.18	9,725.00	9,496.15	42.64	29.25	1.90	704.90	191.28	2,737.42	2,692.04	45.39	60.315	
12,500.00	12,226.06	9,739.25	9,497.61	42.85	29.27	1.65	719.06	191.56	2,744.46	2,699.24	45.22	60.688	
12,600.00	12,231.93	9,750.00	9,498.43	43.07	29.28	1.52	729.78	191.69	2,741.50	2,696.42	45.08	60.812	
12,700.00	12,232.01	9,775.00	9,499.45	43.31	29.29	1.41	754.76	191.78	2,735.93	2,690.84	45.08	60.684	
12,800.00	12,232.36	9,786.69	9,499.51	46.60	29.30	1.52	766.45	191.71	2,733.89	2,688.75	45.14	60.568	
12,900.00	12,231.44	9,884.21	9,499.60	46.64	29.33	1.08	863.97	191.07	2,732.36	2,687.02	45.34	60.268	
13,000.00	12,231.18	9,982.02	9,499.70	46.69	29.38	0.66	961.77	190.43	2,731.68	2,686.08	45.60	59.905	
13,100.00	12,230.71	10,080.44	9,499.79	46.74	29.43	0.30	1,060.19	189.78	2,730.96	2,685.04	45.92	59.470	
13,200.00	12,230.03	10,179.37	9,499.89	46.79	29.50	0.00	1,159.12	189.13	2,730.14	2,683.84	46.30	58.969	
13,300.00	12,229.13	10,278.72	9,499.99	46.86	29.59	-0.24	1,258.47	188.48	2,729.17	2,682.44	46.73	58.407	
13,400.00	12,228.02	10,378.38	9,500.08	46.94	29.70	-0.40	1,358.13	187.82	2,728.01	2,680.81	47.20	57.791	
13,500.00	12,226.71	10,478.24	9,500.18	47.07	29.85	-0.51	1,457.99	187.16	2,726.63	2,678.91	47.73	57.128	
13,600.00	12,225.18	10,578.21	9,500.27	47.30	30.05	-0.54	1,557.96	186.50	2,725.03	2,676.73	48.30	56.424	
13,700.00	12,223.54	10,678.20	9,500.37	47.68	30.33	-0.54	1,657.94	185.85	2,723.29	2,674.39	48.90	55.687	
13,800.00	12,221.91	10,778.18	9,500.47	48.18	30.74	-0.54	1,757.92	185.19	2,721.56	2,672.01	49.55	54.922	
13,900.00	12,221.16	10,878.18	9,500.56	48.74	31.31	-0.54	1,857.91	184.53	2,720.72	2,670.48	50.24	54.151	
14,000.00	12,220.99	10,978.18	9,500.66	49.34	32.06	-0.54	1,957.91	183.87	2,720.45	2,669.48	50.97	53.371	
14,100.00	12,220.82	11,078.18	9,500.76	49.99	32.98	-0.54	2,057.91	183.21	2,720.18	2,668.44	51.74	52.577	
14,200.00	12,220.64	11,178.18	9,500.85	50.66	34.02	-0.54	2,157.91	182.56	2,719.91	2,667.37	52.54	51.771	
14,300.00	12,220.47	11,278.18	9,500.95	51.36	35.15	-0.54	2,257.90	181.90	2,719.64	2,666.27	53.37	50.959	
14,400.00	12,220.29	11,378.18	9,501.05	52.08	36.34	-0.54	2,357.90	181.24	2,719.37	2,665.13	54.23	50.142	
14,500.00	12,220.12	11,478.18	9,501.14	52.83	37.57	-0.54	2,457.90	180.58	2,719.10	2,663.97	55.13	49.324	
14,600.00	12,219.94	11,578.18	9,501.24	53.60	38.84	-0.54	2,557.90	179.92	2,718.83	2,662.78	56.05	48.508	
14,700.00	12,219.77	11,678.17	9,501.34	54.40	40.12	-0.54	2,657.89	179.27	2,718.55	2,661.56	57.00	47.695	
14,800.00	12,219.59	11,778.17	9,501.43	55.21	41.42	-0.54	2,757.89	178.61	2,718.28	2,660.31	57.97	46.888	
14,900.00	12,219.42	11,878.17	9,501.53	56.04	42.74	-0.54	2,857.89	177.95	2,718.01	2,659.04	58.97	46.088	
15,000.00	12,219.24	11,978.17	9,501.63	56.89	44.06	-0.54	2,957.89	177.29	2,717.74	2,657.74	60.00	45.298	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 95H - OH - Plan 3 11-24-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,100.00	12,219.07	12,078.17	9,501.72	57.76	45.40	-0.54	3,057.88	176.63	2,717.47	2,656.43	61.04	44.517	
15,200.00	12,218.90	12,178.17	9,501.82	58.64	46.75	-0.54	3,157.88	175.98	2,717.20	2,655.09	62.11	43.748	
15,300.00	12,218.72	12,278.17	9,501.92	59.54	48.10	-0.54	3,257.88	175.32	2,716.93	2,653.73	63.20	42.991	
15,400.00	12,218.55	12,378.17	9,502.01	60.46	49.46	-0.54	3,357.88	174.66	2,716.66	2,652.35	64.30	42.247	
15,500.00	12,218.37	12,478.17	9,502.11	61.39	50.82	-0.54	3,457.87	174.00	2,716.39	2,650.96	65.43	41.517	
15,600.00	12,218.20	12,578.17	9,502.21	62.33	52.19	-0.54	3,557.87	173.34	2,716.11	2,649.54	66.57	40.801	
15,700.00	12,218.02	12,678.17	9,502.30	63.29	53.57	-0.54	3,657.87	172.68	2,715.84	2,648.11	67.73	40.099	
15,800.00	12,217.85	12,778.17	9,502.40	64.25	54.94	-0.54	3,757.87	172.03	2,715.57	2,646.67	68.90	39.412	
15,900.00	12,217.67	12,878.17	9,502.50	65.24	56.32	-0.54	3,857.86	171.37	2,715.30	2,645.21	70.09	38.739	
16,000.00	12,217.50	12,978.17	9,502.59	66.23	57.71	-0.54	3,957.86	170.71	2,715.03	2,643.73	71.30	38.081	
16,100.00	12,217.33	13,078.17	9,502.69	67.23	59.09	-0.54	4,057.86	170.05	2,714.76	2,642.25	72.51	37.438	
16,200.00	12,217.15	13,178.17	9,502.78	68.24	60.48	-0.54	4,157.86	169.39	2,714.49	2,640.74	73.74	36.810	
16,300.00	12,216.98	13,278.17	9,502.88	69.27	61.88	-0.54	4,257.85	168.74	2,714.22	2,639.23	74.99	36.197	
16,400.00	12,216.80	13,378.17	9,502.98	70.30	63.27	-0.54	4,357.85	168.08	2,713.95	2,637.71	76.24	35.598	
16,500.00	12,216.63	13,478.17	9,503.07	71.34	64.67	-0.54	4,457.85	167.42	2,713.67	2,636.17	77.50	35.013	
16,600.00	12,216.45	13,578.17	9,503.17	72.39	66.06	-0.54	4,557.84	166.76	2,713.40	2,634.62	78.78	34.443	
16,700.00	12,216.28	13,678.17	9,503.27	73.45	67.46	-0.54	4,657.84	166.10	2,713.13	2,633.07	80.07	33.886	
16,800.00	12,216.10	13,778.17	9,503.36	74.52	68.87	-0.54	4,757.84	165.45	2,712.86	2,631.50	81.36	33.343	
16,900.00	12,215.93	13,878.17	9,503.46	75.60	70.27	-0.54	4,857.84	164.79	2,712.59	2,629.92	82.67	32.813	
17,000.00	12,215.75	13,978.17	9,503.56	76.68	71.67	-0.54	4,957.83	164.13	2,712.32	2,628.34	83.98	32.296	
17,100.00	12,215.58	14,078.17	9,503.65	77.77	73.08	-0.54	5,057.83	163.47	2,712.05	2,626.74	85.30	31.792	
17,200.00	12,215.41	14,178.17	9,503.75	78.86	74.49	-0.54	5,157.83	162.81	2,711.78	2,625.14	86.64	31.301	
17,300.00	12,215.23	14,278.17	9,503.85	79.97	75.90	-0.54	5,257.83	162.16	2,711.51	2,623.53	87.97	30.822	
17,400.00	12,215.06	14,378.17	9,503.94	81.07	77.31	-0.54	5,357.82	161.50	2,711.23	2,621.91	89.32	30.354	
17,500.00	12,214.88	14,478.16	9,504.04	82.19	78.72	-0.54	5,457.82	160.84	2,710.96	2,620.29	90.67	29.898	
17,600.00	12,214.71	14,578.16	9,504.14	83.31	80.13	-0.54	5,557.82	160.18	2,710.69	2,618.66	92.03	29.454	
17,700.00	12,214.53	14,678.16	9,504.23	84.44	81.54	-0.54	5,657.82	159.52	2,710.42	2,617.02	93.40	29.020	
17,800.00	12,214.36	14,778.16	9,504.33	85.57	82.96	-0.54	5,757.81	158.87	2,710.15	2,615.38	94.77	28.597	
17,900.00	12,214.18	14,878.16	9,504.43	86.70	84.37	-0.54	5,857.81	158.21	2,709.88	2,613.73	96.15	28.184	
18,000.00	12,214.01	14,978.16	9,504.52	87.84	85.79	-0.54	5,957.81	157.55	2,709.61	2,612.07	97.53	27.781	
18,100.00	12,213.83	15,078.16	9,504.62	88.99	87.20	-0.54	6,057.81	156.89	2,709.34	2,610.41	98.92	27.388	
18,200.00	12,213.66	15,178.16	9,504.72	90.14	88.62	-0.54	6,157.80	156.23	2,709.07	2,608.75	100.32	27.005	
18,300.00	12,213.49	15,278.16	9,504.81	91.30	90.04	-0.54	6,257.80	155.58	2,708.79	2,607.08	101.72	26.631	
18,400.00	12,213.31	15,378.16	9,504.91	92.45	91.45	-0.54	6,357.80	154.92	2,708.52	2,605.40	103.12	26.265	
18,500.00	12,213.14	15,478.16	9,505.01	93.62	92.87	-0.54	6,457.80	154.26	2,708.25	2,603.72	104.53	25.909	
18,600.00	12,212.96	15,578.16	9,505.10	94.78	94.29	-0.54	6,557.79	153.60	2,707.98	2,602.04	105.94	25.560	
18,700.00	12,212.79	15,678.16	9,505.20	95.95	95.71	-0.54	6,657.79	152.94	2,707.71	2,600.35	107.36	25.220	
18,800.00	12,212.61	15,778.16	9,505.30	97.13	97.13	-0.54	6,757.79	152.28	2,707.44	2,598.65	108.79	24.888	
18,900.00	12,212.44	15,878.16	9,505.39	98.31	98.55	-0.54	6,857.79	151.63	2,707.17	2,596.96	110.21	24.563	
19,000.00	12,212.26	15,978.16	9,505.49	99.49	99.98	-0.54	6,957.78	150.97	2,706.90	2,595.26	111.64	24.246	
19,100.00	12,212.09	16,078.16	9,505.58	100.67	101.40	-0.54	7,057.78	150.31	2,706.63	2,593.55	113.07	23.937	
19,200.00	12,211.91	16,178.16	9,505.68	101.86	102.82	-0.54	7,157.78	149.65	2,706.35	2,591.84	114.51	23.634	
19,300.00	12,211.74	16,278.16	9,505.78	103.05	104.24	-0.54	7,257.78	148.99	2,706.08	2,590.13	115.95	23.338	
19,400.00	12,211.57	16,378.16	9,505.87	104.24	105.67	-0.54	7,357.77	148.34	2,705.81	2,588.42	117.40	23.048	
19,500.00	12,211.39	16,478.16	9,505.97	105.44	107.09	-0.54	7,457.77	147.68	2,705.54	2,586.70	118.84	22.766	
19,600.00	12,211.22	16,578.16	9,506.07	106.64	108.51	-0.54	7,557.77	147.02	2,705.27	2,584.98	120.29	22.489	
19,700.00	12,211.04	16,678.16	9,506.16	107.84	109.94	-0.54	7,657.76	146.36	2,705.00	2,583.25	121.75	22.218	
19,800.00	12,210.87	16,778.16	9,506.26	109.04	111.36	-0.54	7,757.76	145.70	2,704.73	2,581.52	123.20	21.953	
19,900.00	12,210.69	16,878.16	9,506.36	110.25	112.79	-0.54	7,857.76	145.05	2,704.46	2,579.79	124.66	21.694	
20,000.00	12,210.52	16,978.16	9,506.45	111.46	114.21	-0.54	7,957.76	144.39	2,704.19	2,578.06	126.12	21.441	
20,100.00	12,210.34	17,078.16	9,506.55	112.67	115.64	-0.54	8,057.75	143.73	2,703.91	2,576.33	127.59	21.193	
20,200.00	12,210.17	17,178.15	9,506.65	113.88	117.07	-0.54	8,157.75	143.07	2,703.64	2,574.59	129.05	20.950	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 95H - OH - Plan 3 11-24-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,300.00	12,209.99	17,278.15	9,506.74	115.10	118.49	-0.54	8,257.75	142.41	2,703.37	2,572.85	130.52	20.712	
20,400.00	12,209.82	17,378.15	9,506.84	116.31	119.92	-0.54	8,357.75	141.76	2,703.10	2,571.11	131.99	20.479	
20,500.00	12,209.65	17,478.15	9,506.94	117.53	121.35	-0.54	8,457.74	141.10	2,702.83	2,569.36	133.47	20.251	
20,600.00	12,209.47	17,578.15	9,507.03	118.75	122.77	-0.54	8,557.74	140.44	2,702.56	2,567.62	134.94	20.028	
20,700.00	12,209.30	17,678.15	9,507.13	119.98	124.20	-0.54	8,657.74	139.78	2,702.29	2,565.87	136.42	19.809	
20,800.00	12,209.12	17,778.15	9,507.23	121.20	125.63	-0.54	8,757.74	139.12	2,702.02	2,564.12	137.90	19.594	
20,900.00	12,208.95	17,878.15	9,507.32	122.43	127.05	-0.54	8,857.73	138.47	2,701.75	2,562.36	139.38	19.384	
21,000.00	12,208.77	17,978.15	9,507.42	123.66	128.48	-0.54	8,957.73	137.81	2,701.47	2,560.61	140.86	19.178	
21,100.00	12,208.60	18,078.15	9,507.52	124.89	129.91	-0.54	9,057.73	137.15	2,701.20	2,558.85	142.35	18.976	
21,200.00	12,208.42	18,178.15	9,507.61	126.12	131.34	-0.54	9,157.73	136.49	2,700.93	2,557.10	143.84	18.778	
21,300.00	12,208.25	18,278.15	9,507.71	127.35	132.77	-0.54	9,257.72	135.83	2,700.66	2,555.34	145.33	18.584	
21,400.00	12,208.07	18,378.15	9,507.81	128.59	134.20	-0.54	9,357.72	135.17	2,700.39	2,553.57	146.82	18.393	
21,500.00	12,207.90	18,478.15	9,507.90	129.82	135.63	-0.54	9,457.72	134.52	2,700.12	2,551.81	148.31	18.206	
21,600.00	12,207.73	18,578.15	9,508.00	131.06	137.06	-0.54	9,557.72	133.86	2,699.85	2,550.05	149.80	18.023	
21,700.00	12,207.55	18,678.15	9,508.09	132.30	138.48	-0.54	9,657.71	133.20	2,699.58	2,548.28	151.30	17.843	
21,800.00	12,207.38	18,778.15	9,508.19	133.54	139.91	-0.54	9,757.71	132.54	2,699.31	2,546.51	152.79	17.666	
21,900.00	12,207.20	18,878.15	9,508.29	134.78	141.34	-0.54	9,857.71	131.88	2,699.03	2,544.74	154.29	17.493	
22,000.00	12,207.03	18,978.15	9,508.38	136.03	142.77	-0.54	9,957.71	131.23	2,698.76	2,542.97	155.79	17.323	
22,100.00	12,206.85	19,078.15	9,508.48	137.27	144.20	-0.54	10,057.70	130.57	2,698.49	2,541.20	157.29	17.156	
22,200.00	12,206.68	19,178.15	9,508.58	138.52	145.63	-0.54	10,157.70	129.91	2,698.22	2,539.43	158.80	16.992	
22,300.00	12,206.50	19,278.15	9,508.67	139.76	147.06	-0.54	10,257.70	129.25	2,697.95	2,537.65	160.30	16.831	
22,400.00	12,206.33	19,378.15	9,508.77	141.01	148.50	-0.54	10,357.70	128.59	2,697.68	2,535.87	161.80	16.673	
22,500.00	12,206.16	19,478.15	9,508.87	142.26	149.93	-0.54	10,457.69	127.94	2,697.41	2,534.10	163.31	16.517	
22,600.00	12,205.98	19,578.15	9,508.96	143.51	151.36	-0.54	10,557.69	127.28	2,697.14	2,532.32	164.82	16.364	
22,700.00	12,205.81	19,678.15	9,509.06	144.76	152.79	-0.54	10,657.69	126.62	2,696.87	2,530.54	166.33	16.214	
22,800.00	12,205.63	19,778.15	9,509.16	146.02	154.22	-0.54	10,757.69	125.96	2,696.59	2,528.76	167.84	16.067	
22,900.00	12,205.46	19,878.14	9,509.25	147.27	155.65	-0.54	10,857.68	125.30	2,696.32	2,526.98	169.35	15.922	
23,000.00	12,205.28	19,978.14	9,509.35	148.52	157.08	-0.54	10,957.68	124.65	2,696.05	2,525.19	170.86	15.780	
23,100.00	12,205.11	20,078.14	9,509.45	149.78	158.51	-0.54	11,057.68	123.99	2,695.78	2,523.41	172.37	15.639	
23,200.00	12,204.93	20,178.14	9,509.54	151.04	159.94	-0.54	11,157.67	123.33	2,695.51	2,521.63	173.88	15.502	
23,251.42	12,204.84	20,226.89	9,509.59	151.68	160.64	-0.54	11,206.42	123.01	2,695.37	2,520.74	174.63	15.435	



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 96H - OH - Plan 4 12-01-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	1.50	1.00	1.00	96.02	-22.69	215.18	216.38					
100.00	100.00	98.50	100.00	1.01	1.09	82.31	-22.69	215.18	216.29	214.20	2.09	103.286		
120.52	120.52	119.02	120.52	1.02	1.16	90.00	-22.69	215.18	216.28	214.10	2.18	99.362		
200.00	199.98	198.48	199.98	1.08	1.59	110.03	-22.69	215.18	216.34	213.66	2.68	80.837		
300.00	299.96	298.46	299.96	1.26	2.01	125.31	-22.69	215.18	217.37	214.10	3.27	66.458		
400.00	399.95	398.45	399.95	1.51	2.35	81.43	-22.69	215.18	218.01	214.15	3.86	56.487		
500.00	499.92	498.42	499.92	1.79	2.65	41.42	-22.69	215.18	216.89	212.44	4.44	48.823		
600.00	599.89	598.39	599.89	2.09	2.92	35.64	-22.69	215.18	214.78	209.77	5.02	42.809		
700.00	699.85	698.35	699.85	2.41	3.18	31.14	-22.69	215.18	212.55	206.96	5.59	38.055		
800.00	799.82	798.32	799.82	2.74	3.41	26.69	-22.69	215.18	210.18	204.04	6.15	34.197		
900.00	899.80	898.30	899.80	3.07	3.63	7.04	-22.69	215.18	208.73	202.03	6.70	31.161		
1,000.00	999.80	998.30	999.80	3.40	3.84	-3.50	-22.69	215.18	207.82	200.58	7.24	28.693		
1,100.00	1,099.80	1,098.30	1,099.80	3.74	4.05	4.26	-22.69	215.18	207.17	199.39	7.78	26.620		
1,200.00	1,199.79	1,198.29	1,199.79	4.08	4.24	40.02	-22.69	215.18	206.70	198.38	8.32	24.846		
1,300.00	1,299.79	1,298.29	1,299.79	4.43	4.43	89.92	-22.69	215.18	206.45	197.60	8.85	23.325		
1,300.17	1,299.96	1,298.46	1,299.96	4.43	4.43	89.93	-22.69	215.18	206.45	197.60	8.85	23.323 CC, ES		
1,400.00	1,399.79	1,396.20	1,397.70	4.77	4.52	126.66	-22.58	215.44	206.97	197.69	9.28	22.298		
1,500.00	1,499.78	1,491.79	1,493.25	5.11	4.81	142.97	-21.64	217.59	209.93	200.06	9.87	21.265		
1,600.00	1,599.77	1,587.14	1,588.49	5.45	5.23	158.61	-19.75	221.93	215.69	205.14	10.55	20.441		
1,700.00	1,699.75	1,682.13	1,683.22	5.79	5.65	170.93	-16.92	228.41	223.70	212.46	11.24	19.906		
1,800.00	1,799.74	1,778.09	1,778.70	6.13	5.88	166.70	-13.14	237.05	233.58	221.81	11.77	19.841		
1,900.00	1,899.73	1,877.41	1,877.49	6.47	6.09	165.84	-8.99	246.56	244.12	231.80	12.32	19.818		
2,000.00	1,999.72	1,976.75	1,976.27	6.81	6.34	-174.22	-4.84	256.07	254.58	241.68	12.90	19.734		
2,100.00	2,099.71	2,076.08	2,075.07	7.15	6.60	-144.64	-0.68	265.58	264.79	251.29	13.50	19.615		
2,200.00	2,199.71	2,175.42	2,173.86	7.49	6.88	-166.25	3.47	275.09	275.09	260.98	14.11	19.494		
2,300.00	2,299.70	2,274.74	2,272.64	7.83	7.17	-171.58	7.62	284.60	285.72	270.99	14.74	19.386		
2,400.00	2,399.69	2,374.07	2,371.42	8.18	7.47	-160.25	11.78	294.11	296.41	281.03	15.38	19.276		
2,500.00	2,499.69	2,473.41	2,470.22	8.52	7.77	-147.74	15.93	303.63	306.83	290.80	16.02	19.147		
2,600.00	2,599.68	2,572.78	2,569.04	8.87	8.09	-157.83	20.09	313.14	317.19	300.50	16.68	19.014		
2,700.00	2,699.68	2,672.16	2,667.88	9.21	8.42	-178.43	24.24	322.66	327.52	310.17	17.35	18.878		
2,800.00	2,799.68	2,771.56	2,766.74	9.56	8.75	147.32	28.40	332.17	337.80	319.77	18.03	18.740		
2,900.00	2,899.68	2,870.99	2,865.62	9.92	9.08	114.77	32.55	341.70	347.93	329.22	18.71	18.598		
3,000.00	2,999.68	2,970.45	2,964.54	10.27	9.43	105.52	36.71	351.22	357.89	338.49	19.40	18.451		
3,100.00	3,099.67	3,069.90	3,063.44	10.62	9.77	111.11	40.87	360.74	368.02	347.93	20.09	18.319		
3,200.00	3,199.67	3,169.34	3,162.34	10.98	10.12	107.59	45.03	370.26	378.24	357.45	20.79	18.196		
3,300.00	3,299.66	3,268.81	3,261.26	11.33	10.48	91.96	49.19	379.79	388.27	366.79	21.49	18.069		
3,400.00	3,399.66	3,368.30	3,360.21	11.68	10.84	78.78	53.35	389.31	398.07	375.88	22.19	17.936		
3,500.00	3,499.65	3,467.80	3,459.17	12.04	11.20	75.68	57.51	398.84	407.78	384.88	22.90	17.805		
3,600.00	3,599.65	3,567.25	3,558.08	12.39	11.56	120.35	61.67	408.36	417.79	394.17	23.62	17.690		
3,700.00	3,699.65	3,666.70	3,656.98	12.74	11.93	102.72	65.83	417.89	427.96	403.62	24.33	17.586		
3,800.00	3,799.65	3,766.15	3,755.88	13.10	12.30	118.64	69.98	427.41	438.15	413.09	25.05	17.488		
3,900.00	3,899.65	3,865.57	3,854.76	13.45	12.67	-124.89	74.14	436.93	448.41	422.64	25.77	17.399		
4,000.00	3,999.64	3,964.95	3,953.60	13.79	13.04	-153.36	78.30	446.44	459.02	432.53	26.49	17.328		
4,100.00	4,099.64	4,064.29	4,052.40	14.13	13.41	-156.16	82.45	455.96	469.98	442.77	27.21	17.271		
4,200.00	4,199.64	4,163.68	4,151.24	14.48	13.79	-89.88	86.61	465.47	480.63	452.69	27.94	17.205		
4,300.00	4,299.62	4,263.18	4,250.20	14.82	14.17	-41.49	90.77	475.00	489.74	461.07	28.66	17.087		
4,400.00	4,399.56	4,362.79	4,349.26	15.16	14.55	-36.18	94.93	484.54	497.09	467.70	29.39	16.913		
4,500.00	4,499.52	4,462.40	4,448.32	15.50	14.93	-32.22	99.10	494.08	505.04	474.91	30.12	16.767		
4,600.00	4,599.48	4,562.01	4,547.39	15.84	15.31	-35.64	103.26	503.61	512.76	481.90	30.85	16.619		
4,700.00	4,699.36	4,661.67	4,646.50	16.19	15.69	-38.80	107.43	513.16	519.06	487.47	31.59	16.430		
4,800.00	4,799.16	4,761.33	4,745.61	16.53	16.08	-38.64	111.60	522.70	524.37	492.03	32.34	16.215		
4,900.00	4,899.01	4,860.99	4,844.74	16.87	16.46	-36.86	115.76	532.24	530.39	497.31	33.08	16.032		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design													Wild Salsa Fed Com - 96H - OH - Plan 4 12-01-20		Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM															Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,000.00	4,998.96	4,960.62	4,943.81	17.22	16.85	-41.02	119.93	541.78	538.00	504.18	33.83	15.905				
5,100.00	5,098.90	5,060.23	5,042.88	17.56	17.23	-40.43	124.09	551.32	545.73	511.16	34.57	15.787				
5,200.00	5,198.84	5,159.84	5,141.95	17.91	17.62	-43.80	128.26	560.86	553.47	518.16	35.31	15.673				
5,300.00	5,298.82	5,259.42	5,240.98	18.26	18.01	-9.88	132.42	570.39	562.04	525.98	36.06	15.588				
5,400.00	5,398.81	5,358.87	5,339.89	18.60	18.40	117.77	136.58	579.92	572.44	535.65	36.79	15.559				
5,500.00	5,498.79	5,458.25	5,438.72	18.96	18.79	120.30	140.74	589.43	583.59	546.07	37.53	15.551				
5,600.00	5,598.78	5,557.61	5,537.54	19.31	19.18	127.94	144.89	598.95	594.81	556.54	38.26	15.545				
5,700.00	5,698.77	5,656.98	5,636.37	19.66	19.57	126.35	149.05	608.46	606.00	567.00	39.00	15.538				
5,800.00	5,798.76	5,756.38	5,735.22	20.01	19.96	118.29	153.20	617.98	616.95	577.20	39.74	15.524				
5,900.00	5,898.75	5,855.79	5,834.09	20.36	20.35	116.47	157.36	627.50	627.79	587.31	40.48	15.508				
6,000.00	5,998.74	5,955.19	5,932.94	20.72	20.74	115.30	161.52	637.01	638.69	597.46	41.22	15.493				
6,100.00	6,098.73	6,054.59	6,031.80	21.07	21.13	115.32	165.67	646.53	649.65	607.69	41.96	15.481				
6,200.00	6,198.72	6,153.99	6,130.65	21.42	21.52	114.71	169.83	656.05	660.61	617.91	42.71	15.469				
6,300.00	6,298.70	6,253.37	6,229.49	21.77	21.91	116.31	173.98	665.57	671.66	628.21	43.45	15.459				
6,400.00	6,398.69	6,352.72	6,328.30	22.13	22.31	168.33	178.14	675.08	683.03	638.84	44.19	15.457				
6,500.00	6,498.67	6,451.95	6,426.98	22.47	22.70	-163.12	182.29	684.58	695.28	650.35	44.93	15.474				
6,600.00	6,598.65	6,551.18	6,525.67	22.82	23.09	-125.79	186.44	694.08	707.40	661.72	45.68	15.487				
6,700.00	6,698.64	6,650.64	6,624.58	23.16	23.49	-38.28	190.59	703.60	717.50	671.09	46.42	15.457				
6,800.00	6,798.64	6,750.16	6,723.56	23.51	23.88	-12.21	194.76	713.13	727.06	679.90	47.16	15.416				
6,900.00	6,898.64	6,849.68	6,822.54	23.86	24.28	-2.82	198.92	722.66	736.69	688.79	47.91	15.378				
7,000.00	6,998.64	6,949.19	6,921.50	24.20	24.67	-27.23	203.08	732.19	746.49	697.84	48.65	15.344				
7,100.00	7,098.63	7,048.66	7,020.43	24.55	25.07	-67.71	207.24	741.72	756.55	707.15	49.39	15.316				
7,200.00	7,198.63	7,148.12	7,119.35	24.89	25.46	-72.20	211.40	751.24	766.68	716.54	50.14	15.291				
7,300.00	7,298.63	7,247.59	7,218.27	25.23	25.86	-67.07	215.55	760.76	776.75	725.86	50.88	15.265				
7,400.00	7,398.63	7,347.06	7,317.19	25.58	26.26	-75.36	219.71	770.29	786.89	735.26	51.63	15.241				
7,500.00	7,498.62	7,446.51	7,416.10	25.92	26.65	-84.25	223.87	779.81	797.11	744.73	52.38	15.219				
7,600.00	7,598.62	7,545.94	7,514.99	26.27	27.05	-90.88	228.03	789.33	807.46	754.33	53.12	15.199				
7,700.00	7,698.61	7,645.36	7,613.86	26.62	27.45	-89.43	232.19	798.85	817.82	763.94	53.87	15.180				
7,800.00	7,798.59	7,744.78	7,712.74	26.96	27.84	-89.68	236.34	808.37	828.16	773.54	54.62	15.161				
7,900.00	7,898.58	7,844.21	7,811.62	27.31	28.24	-77.31	240.50	817.89	838.49	783.11	55.38	15.142				
8,000.00	7,998.58	7,943.69	7,910.56	27.66	28.64	39.47	244.66	827.42	848.49	792.37	56.12	15.118				
8,100.00	8,098.58	8,043.19	8,009.52	28.01	29.03	60.54	248.82	836.94	858.48	801.61	56.87	15.097				
8,200.00	8,198.58	8,170.81	8,136.62	28.36	29.53	63.91	253.35	847.31	867.00	809.24	57.76	15.010				
8,300.00	8,298.58	8,299.83	8,265.45	28.71	30.03	143.74	256.19	853.82	872.45	813.84	58.61	14.885				
8,400.00	8,398.57	8,429.19	8,394.77	29.06	30.40	-164.50	257.29	856.35	874.91	815.63	59.28	14.759				
8,500.00	8,498.57	8,532.99	8,498.57	29.40	30.44	-148.48	257.31	856.38	875.49	815.83	59.66	14.674				
8,600.00	8,598.57	8,632.99	8,598.57	29.75	30.47	-151.84	257.31	856.38	876.26	816.22	60.04	14.594				
8,700.00	8,698.56	8,732.98	8,698.56	30.10	30.50	-154.85	257.31	856.38	877.28	816.86	60.42	14.519				
8,800.00	8,798.55	8,832.97	8,798.55	30.45	30.54	-162.33	257.31	856.38	878.57	817.76	60.81	14.448				
8,900.00	8,898.54	8,932.96	8,898.54	30.80	30.57	-158.53	257.31	856.38	879.86	818.66	61.19	14.379				
9,000.00	8,998.54	9,032.96	8,998.54	31.15	30.61	-153.25	257.31	856.38	880.92	819.35	61.58	14.306				
9,100.00	9,098.53	9,132.95	9,098.53	31.49	30.64	-144.00	257.31	856.38	881.75	819.79	61.96	14.231				
9,200.00	9,198.53	9,232.95	9,198.53	31.84	30.67	-134.20	257.31	856.38	882.59	820.25	62.34	14.157				
9,300.00	9,298.52	9,313.02	9,278.56	32.19	30.72	-117.12	258.75	856.37	883.90	821.12	62.78	14.079				
9,400.00	9,398.52	9,375.00	9,339.87	32.54	30.83	-92.40	267.56	856.31	888.29	825.04	63.25	14.043				
9,500.00	9,498.51	9,436.74	9,399.29	32.89	30.96	-92.99	284.14	856.20	897.12	833.44	63.69	14.087				
9,600.00	9,598.51	9,492.01	9,450.28	33.23	31.09	15.68	305.39	856.06	910.53	846.53	64.01	14.226				
9,700.00	9,698.51	9,541.96	9,493.99	33.58	31.20	52.78	329.54	855.90	929.00	864.83	64.17	14.477				
9,800.00	9,798.50	9,586.42	9,530.57	33.93	31.31	69.65	354.77	855.73	953.47	889.34	64.14	14.867				
9,900.00	9,898.48	9,625.00	9,560.30	34.28	31.40	64.90	379.34	855.56	984.15	920.27	63.88	15.406				
10,000.00	9,998.47	9,659.84	9,585.36	34.63	31.49	11.12	403.53	855.40	1,020.62	957.18	63.44	16.088				
10,100.00	10,098.45	9,689.39	9,605.19	34.98	31.56	-31.05	425.43	855.26	1,062.41	999.61	62.80	16.916				

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Anticollision Report



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Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 96H - OH - Plan 4 12-01-20												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	10,198.42	9,715.04	9,621.27	35.33	31.62	-24.73	445.41	855.12	1,109.98	1,047.95	62.03	17.894	
10,300.00	10,298.42	9,737.64	9,634.54	35.68	31.67	-5.44	463.70	855.00	1,163.87	1,102.68	61.19	19.022	
10,400.00	10,398.42	9,750.00	9,641.42	36.03	31.70	87.30	473.97	854.93	1,223.06	1,162.89	60.17	20.325	
10,500.00	10,498.42	9,775.00	9,654.53	36.38	31.76	-176.31	495.26	854.79	1,286.99	1,227.55	59.44	21.653	
10,600.00	10,598.41	9,790.37	9,662.02	36.72	31.80	-165.11	508.67	854.70	1,355.19	1,296.59	58.60	23.128	
10,700.00	10,698.40	9,800.00	9,666.49	37.07	31.82	-142.23	517.20	854.64	1,426.72	1,368.99	57.73	24.713	
10,800.00	10,798.39	9,825.00	9,677.30	37.42	31.88	-158.17	539.74	854.49	1,501.34	1,444.13	57.21	26.242	
10,900.00	10,898.37	9,825.00	9,677.30	37.77	31.88	-159.64	539.74	854.49	1,578.55	1,522.18	56.37	28.004	
11,000.00	10,998.36	9,836.79	9,681.98	38.12	31.91	155.71	550.57	854.42	1,657.94	1,602.13	55.81	29.709	
11,100.00	11,098.34	9,850.00	9,686.91	38.47	31.94	131.07	562.82	854.34	1,739.05	1,683.71	55.34	31.425	
11,200.00	11,198.33	9,850.00	9,686.91	38.82	31.94	140.35	562.82	854.34	1,821.78	1,767.03	54.75	33.274	
11,300.00	11,298.32	9,862.25	9,691.17	39.17	31.97	121.33	574.30	854.26	1,905.82	1,851.41	54.42	35.023	
11,400.00	11,398.31	9,875.00	9,695.30	39.52	32.00	98.93	586.36	854.18	1,991.02	1,936.87	54.15	36.771	
11,500.00	11,498.30	9,875.00	9,695.30	39.87	32.00	95.38	586.36	854.18	2,077.33	2,023.57	53.77	38.636	
11,600.00	11,598.26	9,875.00	9,695.30	40.22	32.00	98.69	586.36	854.18	2,164.85	2,111.40	53.45	40.500	
11,700.00	11,698.13	9,888.75	9,699.38	40.57	32.03	56.02	599.50	854.09	2,252.61	2,199.25	53.36	42.215	
11,800.00	11,797.26	9,900.00	9,702.44	40.92	32.06	54.55	610.32	854.02	2,338.41	2,285.18	53.23	43.928	
11,900.00	11,894.04	9,900.00	9,702.44	41.25	32.06	50.78	610.32	854.02	2,423.58	2,370.54	53.05	45.689	
12,000.00	11,984.36	9,914.60	9,706.03	41.58	32.09	36.43	624.47	853.92	2,502.62	2,449.57	53.05	47.179	
12,100.00	12,063.58	9,925.00	9,708.32	41.88	32.11	28.44	634.61	853.85	2,568.61	2,515.67	52.94	48.518	
12,200.00	12,127.93	9,950.00	9,712.92	42.16	32.17	22.57	659.18	853.69	2,617.92	2,565.01	52.91	49.479	
12,300.00	12,174.23	9,950.00	9,712.92	42.41	32.17	18.37	659.18	853.69	2,645.45	2,592.97	52.48	50.412	
12,400.00	12,207.18	9,975.00	9,716.23	42.64	32.23	15.73	683.96	853.52	2,655.94	2,603.78	52.15	50.925	
12,500.00	12,226.06	9,986.39	9,717.31	42.85	32.26	15.46	695.29	853.45	2,653.82	2,602.13	51.68	51.349	
12,600.00	12,231.93	10,000.00	9,718.24	43.07	32.29	15.41	708.87	853.36	2,641.94	2,590.67	51.27	51.532	
12,700.00	12,232.01	10,025.65	9,718.94	43.31	32.35	15.45	734.51	853.18	2,627.89	2,576.88	51.01	51.516	
12,800.00	12,232.36	10,060.74	9,718.96	46.60	32.44	15.89	769.60	852.95	2,619.11	2,567.69	51.42	50.933	
12,900.00	12,231.44	10,158.26	9,719.02	46.64	32.73	15.49	867.12	852.30	2,612.05	2,560.30	51.76	50.469	
13,000.00	12,231.18	10,256.06	9,719.07	46.69	33.08	15.16	964.91	851.64	2,606.13	2,554.02	52.11	50.011	
13,100.00	12,230.71	10,354.48	9,719.12	46.74	33.49	14.88	1,063.33	850.98	2,600.97	2,548.44	52.53	49.510	
13,200.00	12,230.03	10,453.41	9,719.17	46.79	33.98	14.64	1,162.26	850.32	2,596.53	2,543.50	53.03	48.968	
13,300.00	12,229.13	10,552.76	9,719.23	46.86	34.53	14.46	1,261.61	849.65	2,592.74	2,539.16	53.58	48.387	
13,400.00	12,228.02	10,652.42	9,719.28	46.94	35.14	14.33	1,361.26	848.99	2,589.59	2,535.38	54.21	47.768	
13,500.00	12,226.71	10,752.28	9,719.33	47.07	35.82	14.25	1,461.13	848.32	2,587.05	2,532.14	54.91	47.114	
13,600.00	12,225.18	10,852.25	9,719.39	47.30	36.55	14.23	1,561.09	847.65	2,585.10	2,529.42	55.68	46.427	
13,700.00	12,223.54	10,952.24	9,719.44	47.68	37.34	14.24	1,661.08	846.98	2,583.46	2,526.96	56.51	45.721	
13,800.00	12,221.91	11,052.22	9,719.49	48.18	38.17	14.25	1,761.06	846.31	2,581.82	2,524.46	57.36	45.008	
13,900.00	12,221.16	11,152.22	9,719.55	48.74	39.05	14.25	1,861.05	845.64	2,581.05	2,522.80	58.25	44.308	
14,000.00	12,220.99	11,252.22	9,719.60	49.34	39.97	14.25	1,961.05	844.97	2,580.83	2,521.66	59.17	43.615	
14,100.00	12,220.82	11,352.22	9,719.65	49.99	40.93	14.25	2,061.05	844.30	2,580.61	2,520.49	60.12	42.923	
14,200.00	12,220.64	11,452.22	9,719.71	50.66	41.92	14.25	2,161.04	843.63	2,580.38	2,519.28	61.10	42.232	
14,300.00	12,220.47	11,552.22	9,719.76	51.36	42.95	14.26	2,261.04	842.96	2,580.16	2,518.06	62.11	41.545	
14,400.00	12,220.29	11,652.22	9,719.82	52.08	44.00	14.26	2,361.04	842.29	2,579.94	2,516.80	63.14	40.863	
14,500.00	12,220.12	11,752.21	9,719.87	52.83	45.07	14.26	2,461.04	841.62	2,579.72	2,515.52	64.19	40.186	
14,600.00	12,219.94	11,852.21	9,719.92	53.60	46.17	14.26	2,561.03	840.95	2,579.49	2,514.22	65.27	39.518	
14,700.00	12,219.77	11,952.21	9,719.98	54.40	47.29	14.26	2,661.03	840.28	2,579.27	2,512.89	66.38	38.857	
14,800.00	12,219.59	12,052.21	9,720.03	55.21	48.43	14.26	2,761.03	839.61	2,579.05	2,511.54	67.50	38.206	
14,900.00	12,219.42	12,152.21	9,720.08	56.04	49.59	14.26	2,861.03	838.94	2,578.83	2,510.17	68.65	37.564	
15,000.00	12,219.24	12,252.21	9,720.14	56.89	50.76	14.26	2,961.02	838.27	2,578.60	2,508.79	69.82	36.933	
15,100.00	12,219.07	12,352.21	9,720.19	57.76	51.95	14.26	3,061.02	837.60	2,578.38	2,507.38	71.00	36.313	
15,200.00	12,218.90	12,452.21	9,720.24	58.64	53.15	14.27	3,161.02	836.93	2,578.16	2,505.95	72.21	35.705	
15,300.00	12,218.72	12,552.21	9,720.30	59.54	54.36	14.27	3,261.02	836.26	2,577.94	2,504.51	73.43	35.107	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 96H - OH - Plan 4 12-01-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,400.00	12,218.55	12,652.21	9,720.35	60.46	55.59	14.27	3,361.01	835.59	2,577.71	2,503.04	74.67	34.522		
15,500.00	12,218.37	12,752.21	9,720.40	61.39	56.83	14.27	3,461.01	834.92	2,577.49	2,501.57	75.92	33.949		
15,600.00	12,218.20	12,852.21	9,720.46	62.33	58.07	14.27	3,561.01	834.25	2,577.27	2,500.07	77.19	33.388		
15,700.00	12,218.02	12,952.21	9,720.51	63.29	59.33	14.27	3,661.01	833.58	2,577.04	2,498.57	78.48	32.838		
15,800.00	12,217.85	13,052.21	9,720.56	64.25	60.59	14.27	3,761.00	832.91	2,576.82	2,497.05	79.78	32.301		
15,900.00	12,217.67	13,152.21	9,720.62	65.24	61.86	14.27	3,861.00	832.24	2,576.60	2,495.51	81.09	31.776		
16,000.00	12,217.50	13,252.21	9,720.67	66.23	63.14	14.27	3,961.00	831.57	2,576.38	2,493.97	82.41	31.263		
16,100.00	12,217.33	13,352.21	9,720.72	67.23	64.43	14.28	4,061.00	830.90	2,576.15	2,492.41	83.75	30.761		
16,200.00	12,217.15	13,452.21	9,720.78	68.24	65.72	14.28	4,160.99	830.23	2,575.93	2,490.84	85.09	30.271		
16,300.00	12,216.98	13,552.21	9,720.83	69.27	67.02	14.28	4,260.99	829.56	2,575.71	2,489.25	86.45	29.793		
16,400.00	12,216.80	13,652.21	9,720.88	70.30	68.32	14.28	4,360.99	828.89	2,575.49	2,487.66	87.82	29.326		
16,500.00	12,216.63	13,752.21	9,720.94	71.34	69.63	14.28	4,460.99	828.22	2,575.26	2,486.06	89.20	28.870		
16,600.00	12,216.45	13,852.21	9,720.99	72.39	70.95	14.28	4,560.98	827.55	2,575.04	2,484.45	90.59	28.425		
16,700.00	12,216.28	13,952.21	9,721.05	73.45	72.27	14.28	4,660.98	826.88	2,574.82	2,482.83	91.99	27.990		
16,800.00	12,216.10	14,052.21	9,721.10	74.52	73.59	14.28	4,760.98	826.21	2,574.60	2,481.20	93.40	27.566		
16,900.00	12,215.93	14,152.21	9,721.15	75.60	74.92	14.28	4,860.98	825.54	2,574.37	2,479.56	94.81	27.152		
17,000.00	12,215.75	14,252.21	9,721.21	76.68	76.25	14.29	4,960.97	824.87	2,574.15	2,477.91	96.24	26.748		
17,100.00	12,215.58	14,352.21	9,721.26	77.77	77.59	14.29	5,060.97	824.20	2,573.93	2,476.26	97.67	26.354		
17,200.00	12,215.41	14,452.21	9,721.31	78.86	78.93	14.29	5,160.97	823.53	2,573.70	2,474.60	99.11	25.969		
17,300.00	12,215.23	14,552.21	9,721.37	79.97	80.27	14.29	5,260.97	822.86	2,573.48	2,472.93	100.55	25.593		
17,400.00	12,215.06	14,652.21	9,721.42	81.07	81.61	14.29	5,360.96	822.19	2,573.26	2,471.25	102.01	25.226		
17,500.00	12,214.88	14,752.21	9,721.47	82.19	82.96	14.29	5,460.96	821.52	2,573.04	2,469.57	103.47	24.868		
17,600.00	12,214.71	14,852.21	9,721.53	83.31	84.32	14.29	5,560.96	820.85	2,572.81	2,467.88	104.93	24.519		
17,700.00	12,214.53	14,952.21	9,721.58	84.44	85.67	14.29	5,660.96	820.18	2,572.59	2,466.19	106.40	24.178		
17,800.00	12,214.36	15,052.21	9,721.63	85.57	87.03	14.29	5,760.95	819.51	2,572.37	2,464.49	107.88	23.845		
17,900.00	12,214.18	15,152.21	9,721.69	86.70	88.39	14.30	5,860.95	818.84	2,572.15	2,462.78	109.36	23.519		
18,000.00	12,214.01	15,252.21	9,721.74	87.84	89.75	14.30	5,960.95	818.17	2,571.92	2,461.07	110.85	23.201		
18,100.00	12,213.83	15,352.21	9,721.79	88.99	91.11	14.30	6,060.95	817.50	2,571.70	2,459.35	112.35	22.891		
18,200.00	12,213.66	15,452.21	9,721.85	90.14	92.48	14.30	6,160.94	816.83	2,571.48	2,457.63	113.84	22.588		
18,300.00	12,213.49	15,552.21	9,721.90	91.30	93.85	14.30	6,260.94	816.16	2,571.26	2,455.91	115.35	22.291		
18,400.00	12,213.31	15,652.20	9,721.95	92.45	95.22	14.30	6,360.94	815.49	2,571.03	2,454.18	116.86	22.002		
18,500.00	12,213.14	15,752.20	9,722.01	93.62	96.59	14.30	6,460.94	814.82	2,570.81	2,452.44	118.37	21.719		
18,600.00	12,212.96	15,852.20	9,722.06	94.78	97.97	14.30	6,560.93	814.15	2,570.59	2,450.70	119.88	21.442		
18,700.00	12,212.79	15,952.20	9,722.12	95.95	99.35	14.30	6,660.93	813.48	2,570.36	2,448.96	121.40	21.172		
18,800.00	12,212.61	16,052.20	9,722.17	97.13	100.72	14.31	6,760.93	812.81	2,570.14	2,447.21	122.93	20.908		
18,900.00	12,212.44	16,152.20	9,722.22	98.31	102.10	14.31	6,860.93	812.14	2,569.92	2,445.46	124.46	20.649		
19,000.00	12,212.26	16,252.20	9,722.28	99.49	103.49	14.31	6,960.92	811.47	2,569.70	2,443.71	125.99	20.396		
19,100.00	12,212.09	16,352.20	9,722.33	100.67	104.87	14.31	7,060.92	810.80	2,569.47	2,441.95	127.52	20.149		
19,200.00	12,211.91	16,452.20	9,722.38	101.86	106.25	14.31	7,160.92	810.13	2,569.25	2,440.19	129.06	19.907		
19,300.00	12,211.74	16,552.20	9,722.44	103.05	107.64	14.31	7,260.92	809.46	2,569.03	2,438.43	130.60	19.670		
19,400.00	12,211.57	16,652.20	9,722.49	104.24	109.03	14.31	7,360.91	808.79	2,568.81	2,436.66	132.15	19.439		
19,500.00	12,211.39	16,752.20	9,722.54	105.44	110.41	14.31	7,460.91	808.12	2,568.58	2,434.89	133.70	19.212		
19,600.00	12,211.22	16,852.20	9,722.60	106.64	111.80	14.31	7,560.91	807.45	2,568.36	2,433.11	135.25	18.990		
19,700.00	12,211.04	16,952.20	9,722.65	107.84	113.19	14.32	7,660.91	806.78	2,568.14	2,431.34	136.80	18.773		
19,800.00	12,210.87	17,052.20	9,722.70	109.04	114.59	14.32	7,760.90	806.11	2,567.92	2,429.56	138.36	18.560		
19,900.00	12,210.69	17,152.20	9,722.76	110.25	115.98	14.32	7,860.90	805.44	2,567.69	2,427.78	139.92	18.352		
20,000.00	12,210.52	17,252.20	9,722.81	111.46	117.37	14.32	7,960.90	804.77	2,567.47	2,425.99	141.48	18.147		
20,100.00	12,210.34	17,352.20	9,722.86	112.67	118.77	14.32	8,060.90	804.10	2,567.25	2,424.21	143.04	17.947		
20,200.00	12,210.17	17,452.20	9,722.92	113.88	120.16	14.32	8,160.89	803.43	2,567.03	2,422.42	144.61	17.751		
20,300.00	12,209.99	17,552.20	9,722.97	115.10	121.56	14.32	8,260.89	802.76	2,566.80	2,420.62	146.18	17.559		
20,400.00	12,209.82	17,652.20	9,723.02	116.31	122.96	14.32	8,360.89	802.09	2,566.58	2,418.83	147.75	17.371		
20,500.00	12,209.65	17,752.20	9,723.08	117.53	124.36	14.32	8,460.89	801.42	2,566.36	2,417.03	149.32	17.187		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Offset Design Wild Salsa Fed Com - 96H - OH - Plan 4 12-01-20													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,600.00	12,209.47	17,852.20	9,723.13	118.75	125.76	14.33	8,560.88	800.75	2,566.13	2,415.24	150.90	17.006		
20,700.00	12,209.30	17,952.20	9,723.19	119.98	127.16	14.33	8,660.88	800.08	2,565.91	2,413.44	152.48	16.828		
20,800.00	12,209.12	18,052.20	9,723.24	121.20	128.56	14.33	8,760.88	799.41	2,565.69	2,411.63	154.06	16.654		
20,900.00	12,208.95	18,152.20	9,723.29	122.43	129.96	14.33	8,860.88	798.74	2,565.47	2,409.83	155.64	16.484		
21,000.00	12,208.77	18,252.20	9,723.35	123.66	131.36	14.33	8,960.87	798.07	2,565.24	2,408.02	157.22	16.316		
21,100.00	12,208.60	18,352.20	9,723.40	124.89	132.77	14.33	9,060.87	797.40	2,565.02	2,406.22	158.80	16.152		
21,200.00	12,208.42	18,452.20	9,723.45	126.12	134.17	14.33	9,160.87	796.73	2,564.80	2,404.41	160.39	15.991		
21,300.00	12,208.25	18,552.20	9,723.51	127.35	135.58	14.33	9,260.87	796.06	2,564.58	2,402.60	161.98	15.833		
21,400.00	12,208.07	18,652.20	9,723.56	128.59	136.98	14.33	9,360.86	795.39	2,564.35	2,400.78	163.57	15.677		
21,500.00	12,207.90	18,752.20	9,723.61	129.82	138.39	14.34	9,460.86	794.72	2,564.13	2,398.97	165.16	15.525		
21,600.00	12,207.73	18,852.20	9,723.67	131.06	139.79	14.34	9,560.86	794.05	2,563.91	2,397.15	166.76	15.375		
21,700.00	12,207.55	18,952.20	9,723.72	132.30	141.20	14.34	9,660.86	793.38	2,563.69	2,395.34	168.35	15.228		
21,800.00	12,207.38	19,052.20	9,723.77	133.54	142.61	14.34	9,760.85	792.71	2,563.46	2,393.52	169.95	15.084		
21,900.00	12,207.20	19,152.20	9,723.83	134.78	144.02	14.34	9,860.85	792.04	2,563.24	2,391.70	171.54	14.942		
22,000.00	12,207.03	19,252.20	9,723.88	136.03	145.43	14.34	9,960.85	791.37	2,563.02	2,389.87	173.14	14.803		
22,100.00	12,206.85	19,352.20	9,723.93	137.27	146.84	14.34	10,060.85	790.70	2,562.80	2,388.05	174.74	14.666		
22,200.00	12,206.68	19,452.19	9,723.99	138.52	148.25	14.34	10,160.84	790.03	2,562.57	2,386.23	176.35	14.532		
22,300.00	12,206.50	19,552.19	9,724.04	139.76	149.66	14.34	10,260.84	789.36	2,562.35	2,384.40	177.95	14.399		
22,400.00	12,206.33	19,652.19	9,724.09	141.01	151.07	14.35	10,360.84	788.69	2,562.13	2,382.57	179.55	14.269		
22,500.00	12,206.16	19,752.19	9,724.15	142.26	152.48	14.35	10,460.84	788.02	2,561.91	2,380.75	181.16	14.142		
22,600.00	12,205.98	19,852.19	9,724.20	143.51	153.89	14.35	10,560.83	787.35	2,561.68	2,378.92	182.77	14.016		
22,700.00	12,205.81	19,952.19	9,724.26	144.76	155.31	14.35	10,660.83	786.68	2,561.46	2,377.09	184.37	13.893		
22,800.00	12,205.63	20,052.19	9,724.31	146.02	156.72	14.35	10,760.83	786.01	2,561.24	2,375.25	185.98	13.771		
22,900.00	12,205.46	20,152.19	9,724.36	147.27	158.13	14.35	10,860.83	785.34	2,561.01	2,373.42	187.59	13.652		
23,000.00	12,205.28	20,252.19	9,724.42	148.52	159.55	14.35	10,960.82	784.67	2,560.79	2,371.59	189.20	13.535		
23,100.00	12,205.11	20,352.19	9,724.47	149.78	160.96	14.35	11,060.82	784.00	2,560.57	2,369.75	190.82	13.419		
23,200.00	12,204.93	20,452.19	9,724.52	151.04	162.27	14.35	11,160.82	783.33	2,560.35	2,368.11	192.24	13.318		
23,251.42	12,204.84	20,503.61	9,724.55	151.68	162.90	14.36	11,212.23	782.98	2,560.23	2,367.35	192.88	13.273 SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

TITUS

OIL GAS LLC

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3747.50usft (H&P 474)

Coordinates are relative to: 324H

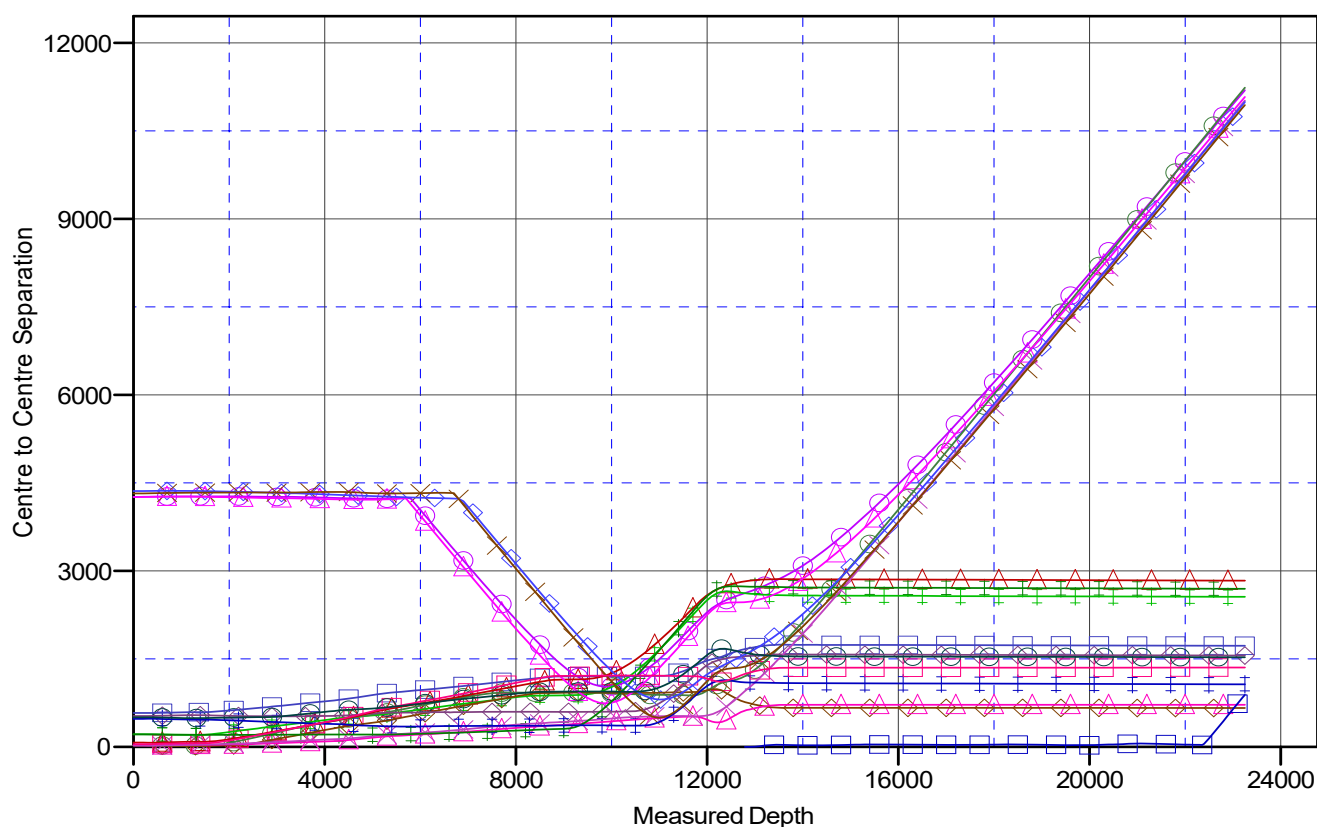
Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Central Meridian is 104° 19' 60.000000 W

Grid Convergence at Surface is: 0.38°

Ladder Plot



LEGEND

7H, OH, Surveys V0	93H, OH / 67086, Plan 2 01-05-21 V0	224H, OH, Plan 4 11-24-20 V0
96H, OH, Plan 4 12-01-20 V0	404H, OH / 67083, Plan 6 11-30-20 V0	1H, OH, Surveys (Cactus 104) V0
223H, OH, Prelim V0	404H, OH / 67083, Surveys (H&P 474) V0	323H, OH, Plan 401-05-21 V0
406H, OH / 67082, Surveys (H&P 474) V0	5H, OH, Surveys V0	216H, OH, Plan 4 12-01-20 V0
406H, OH / 67082, Plan 3 11-30-20 V0	95H, OH, Plan 3 11-24-20 V0	324H, OH / 67084, Surveys (H&P 474) V0
214H, OH, Plan 3 11-24-20 V0	2H, OH, Surveys V0	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

TITUS

OIL GAS LLC

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 324H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Reference Site:	Wild Salsa Fed Com	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	324H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01 / 67084	Database:	USA Compass
Reference Design:	Plan 6 01-10-21	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3747.50usft (H&P 474)

Coordinates are relative to: 324H

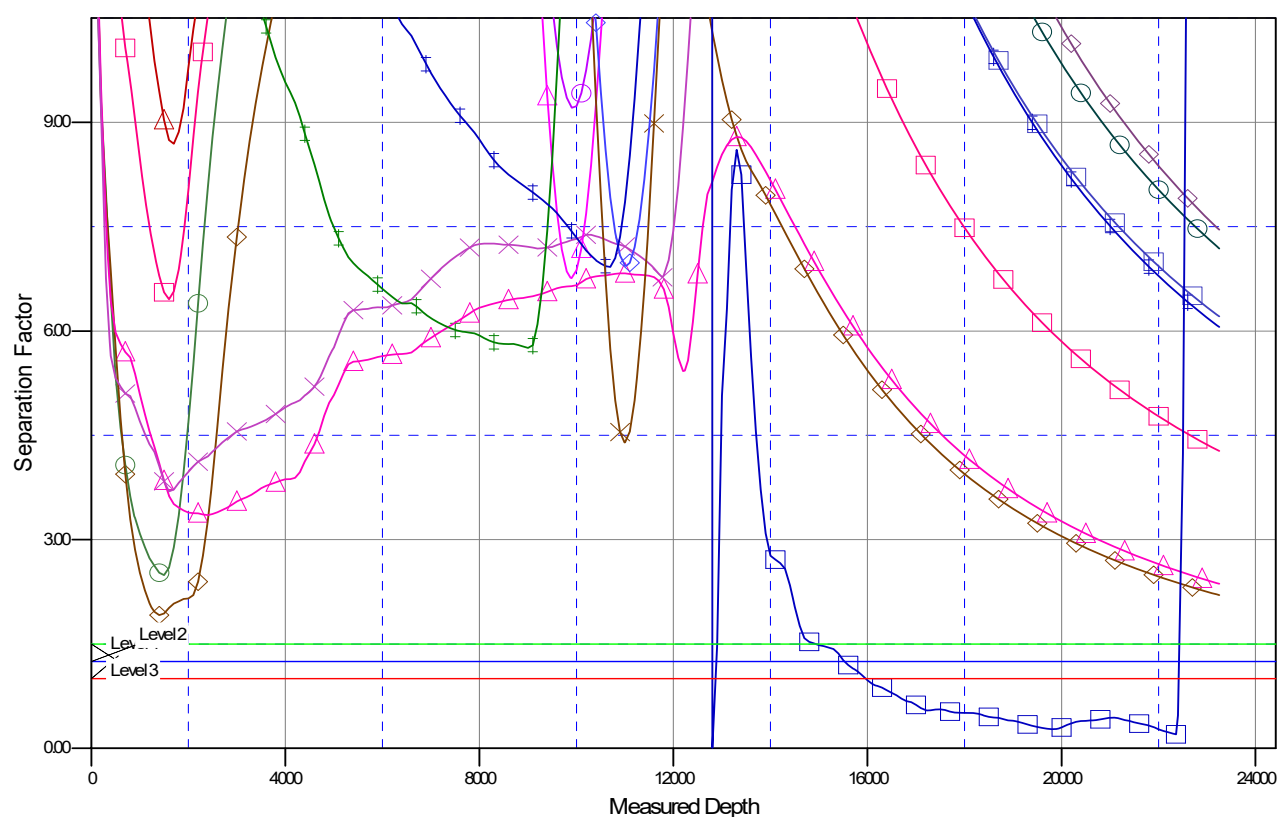
Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Central Meridian is 104° 19' 60.000000 W

Grid Convergence at Surface is: 0.38°

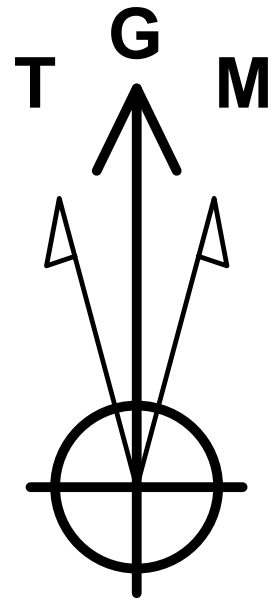
Separation Factor Plot



LEGEND

- | | | |
|---------------------------------------|---------------------------------------|---------------------------------------|
| 7H, OH, Surveys V0 | 93H, OH /67086, Plan 2 01-05-21 V0 | 224H, OH, Plan 4 11-24-20 V0 |
| 96H, OH, Plan 4 12-01-20 V0 | 404H, OH /67083, Plan 6 11-30-20 V0 | 1H, OH, Surveys (Cactus 104) V0 |
| 223H, OH, Prelim V0 | 404H, OH /67083, Surveys (H&P 474) V0 | 323H, OH, Plan 4 01-05-21 V0 |
| 406H, OH /67082, Surveys (H&P 474) V0 | 5H, OH, Surveys V0 | 216H, OH, Plan 4 12-01-20 V0 |
| 406H, OH /67082, Plan 3 11-30-20 V0 | 95H, OH, Plan 3 11-24-20 V0 | 324H, OH /67084, Surveys (H&P 474) V0 |
| 214H, OH, Plan 3 11-24-20 V0 | 2H, OH, Surveys V0 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



RKB @ 3747.50usft (H&P 474)

Ground Level: 3721.00

WELL DETAILS

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude
0.00	0.00	466701.12	719486.25	32° 16' 51.891276 N	103° 37' 23.281788 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL v3 - Wild Salsa Fed Com 324H	12204.84	11206.65	148.23	477907.78	719634.49	32° 18' 42.777052 N	103° 37' 20.689767 W
LTP v3 - Wild Salsa Fed Com 324H	12205.00	11116.65	148.62	477817.78	719634.87	32° 18' 41.886433 N	103° 37' 20.692253 W
FTP v3 - Wild Salsa Fed Com 324H	12223.00	755.24	217.66	467456.37	719703.92	32° 16' 59.350544 N	103° 37' 20.688160 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target	Annotation
1	12791.00	89.98	13.70	12232.37	754.57	114.27	0.00	0.00	753.79		Tie In
2	12850.00	91.19	11.64	12231.77	812.12	127.21	4.05	-59.56	811.26		ST, Begin 5.00°/100' Drop & Turn
3	12860.00	90.72	11.81	12231.60	821.91	129.24	5.00	160.00	821.04		Begin 5.00°/100' Drop & Turn
4	12870.00	90.34	12.13	12231.51	831.69	131.32	5.00	140.00	830.81		Begin 5.00°/100' Drop & Turn
5	12880.00	90.09	12.57	12231.47	841.46	133.46	5.00	120.00	840.56		Hold 90.09° Inc at 12.57° Azm
6	12900.00	90.09	12.57	12231.44	860.98	137.81	0.00	0.00	860.05		Begin 1.85°/100' Build & Turn
7	13602.93	90.94	359.62	12225.13	1558.43	212.24	1.85	-86.20	1556.98		Hold 90.94° Inc at 359.62° Azm
8	13816.14	90.94	359.62	12221.64	1771.60	210.81	0.00	0.00	1770.17		Begin 1.85°/100' Drop
9	13861.42	90.10	359.62	12221.23	1816.87	210.51	1.85	179.77	1815.44		Hold 90.10° Inc at 359.62° Azm
10	23251.42	90.10	359.62	12204.84	11206.65	148.23	0.00	0.00	11205.42	BHL v3 - Wild Salsa Fed Com 324H	TD at 23251.42

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

Local Origin: Well 324H, Grid North

Latitude: 32° 16' 51.891276 N
Longitude: 103° 37' 23.281788 WGrid East: 719486.25
Grid North: 466701.12
Scale Factor: 1.000

Geomagnetic Model: MVHD
Sample Date: 19-Jan-21
Magnetic Declination: 6.44°
Dip Angle from Horizontal: 59.90°
Magnetic Field Strength: 47771.19364505nT

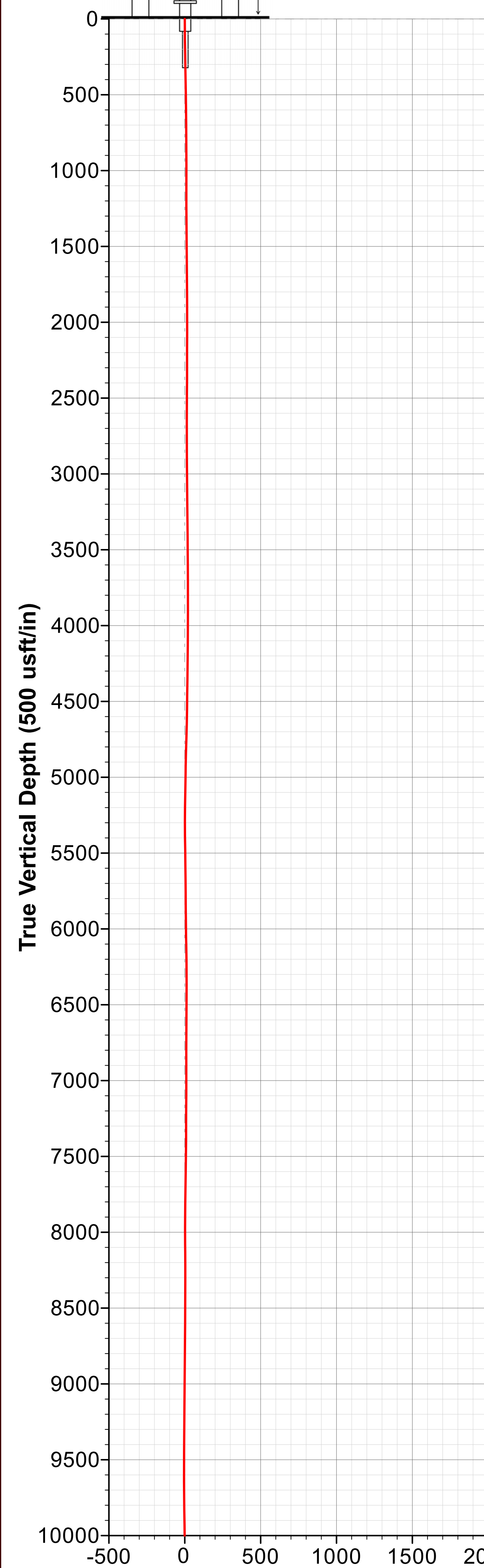
To convert a Magnetic Direction to a Grid Direction, Add 6.06°
To convert a Magnetic Direction to a True Direction, Add 6.44° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

FORMATION TOP DETAILS

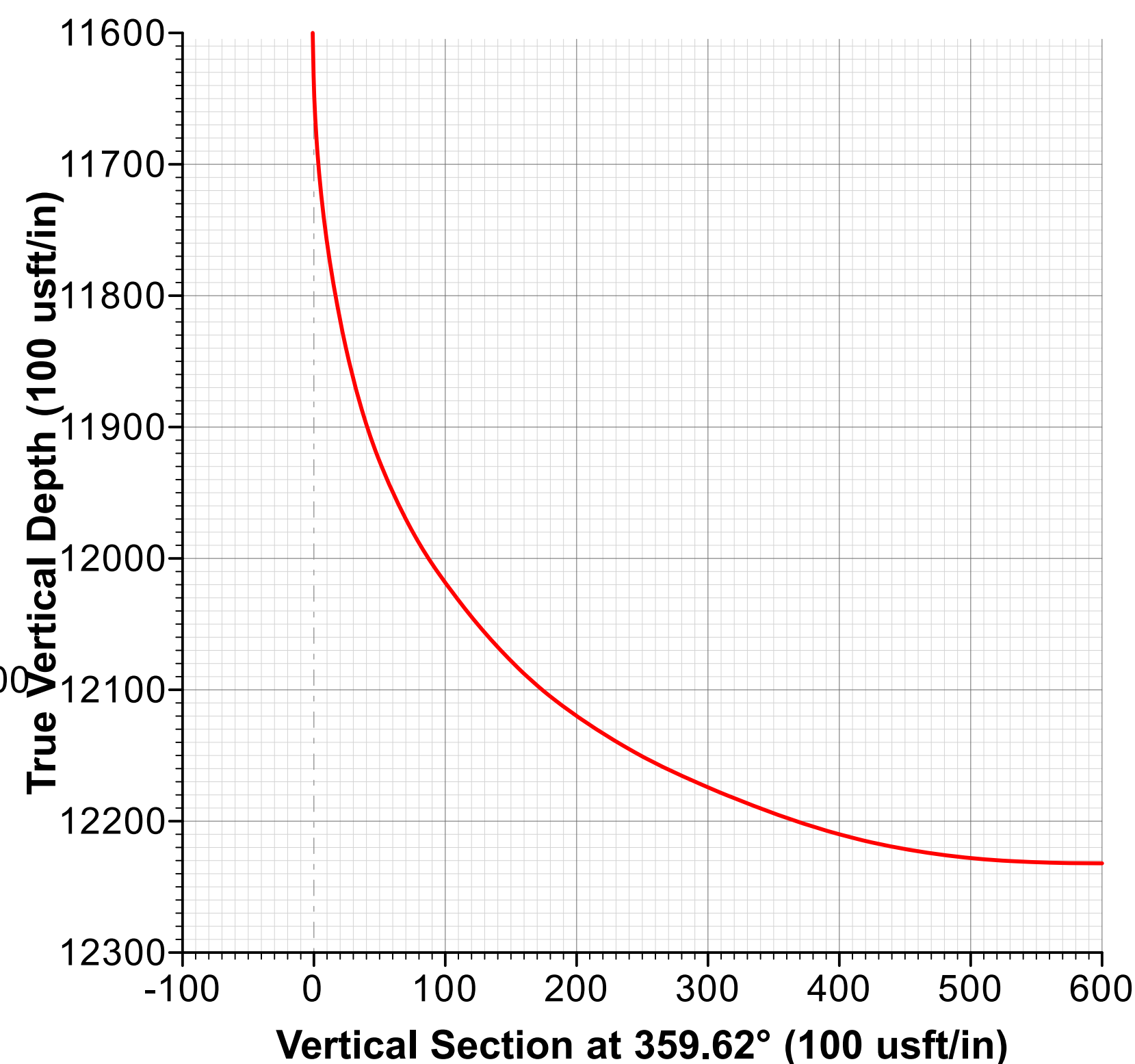
No formation data is available

LEGEND

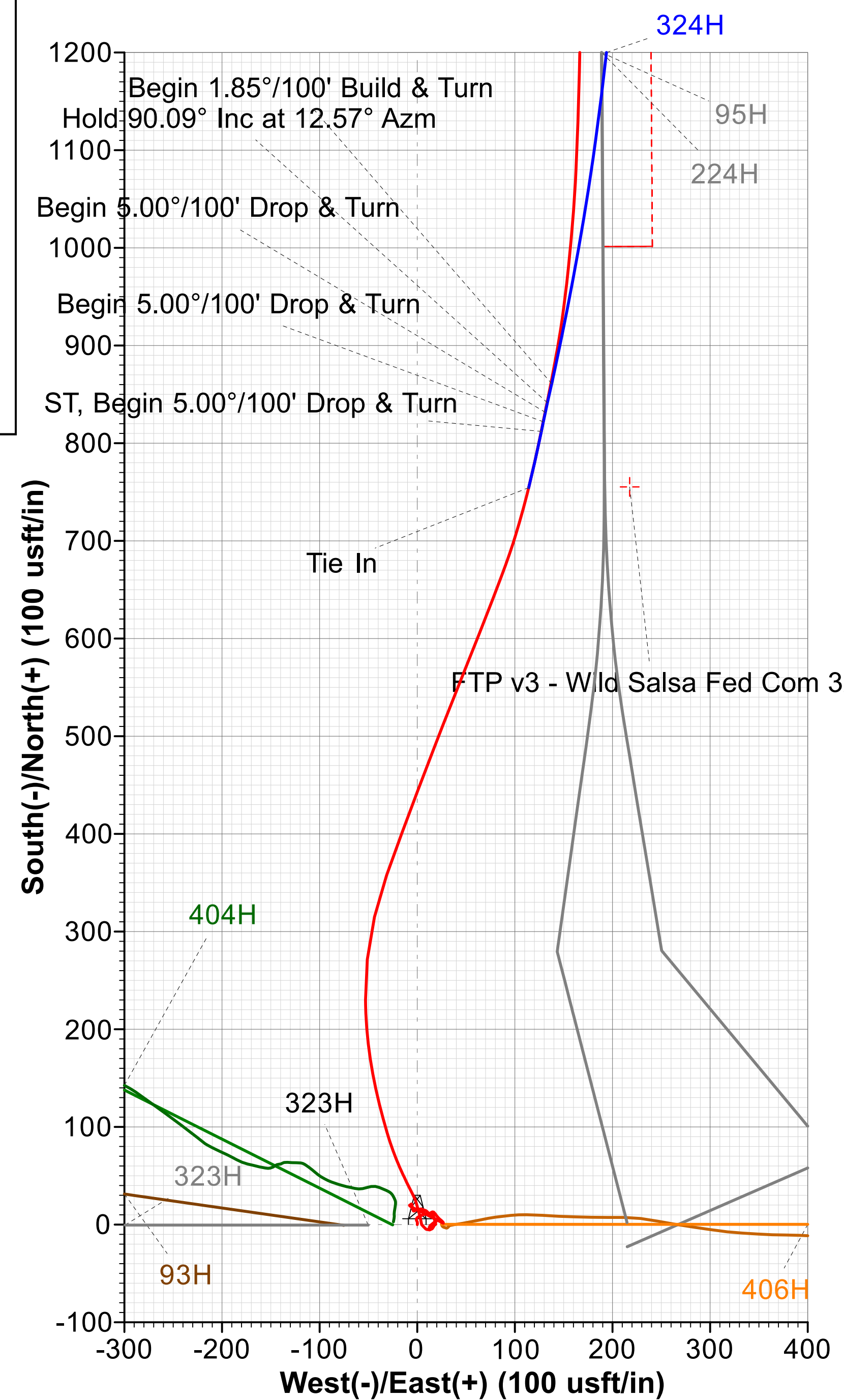
- 7H, OH, Surveys V0
- 96H, OH, Plan 4 12-01-20 V0
- 223H, OH, Prelim V0
- 406H, OH / 67082, Surveys (H&P 474) \
- 406H, OH / 67082, Plan 3 11-30-20 V0
- 214H, OH, Plan 3 11-24-20 V0
- 93H, OH / 67086, Surveys (H&P 474) V0
- 93H, OH / 67086, Plan 2 01-05-21 V0
- 404H, OH / 67083, Plan 6 11-30-20 V0
- 404H, OH / 67083, Surveys (H&P 474) \
- 5H, OH, Surveys V0
- 95H, OH, Plan 3 11-24-20 V0
- 2H, OH, Surveys V0
- 224H, OH, Plan 4 11-24-20 V0
- 1H, OH, Surveys (Cactus 104) V0
- 323H, OH, Plan 4 01-05-21 V0
- 216H, OH, Plan 4 12-01-20 V0
- 324H, OH / 67084, Surveys (H&P 474) \
- Plan 6 01-10-21



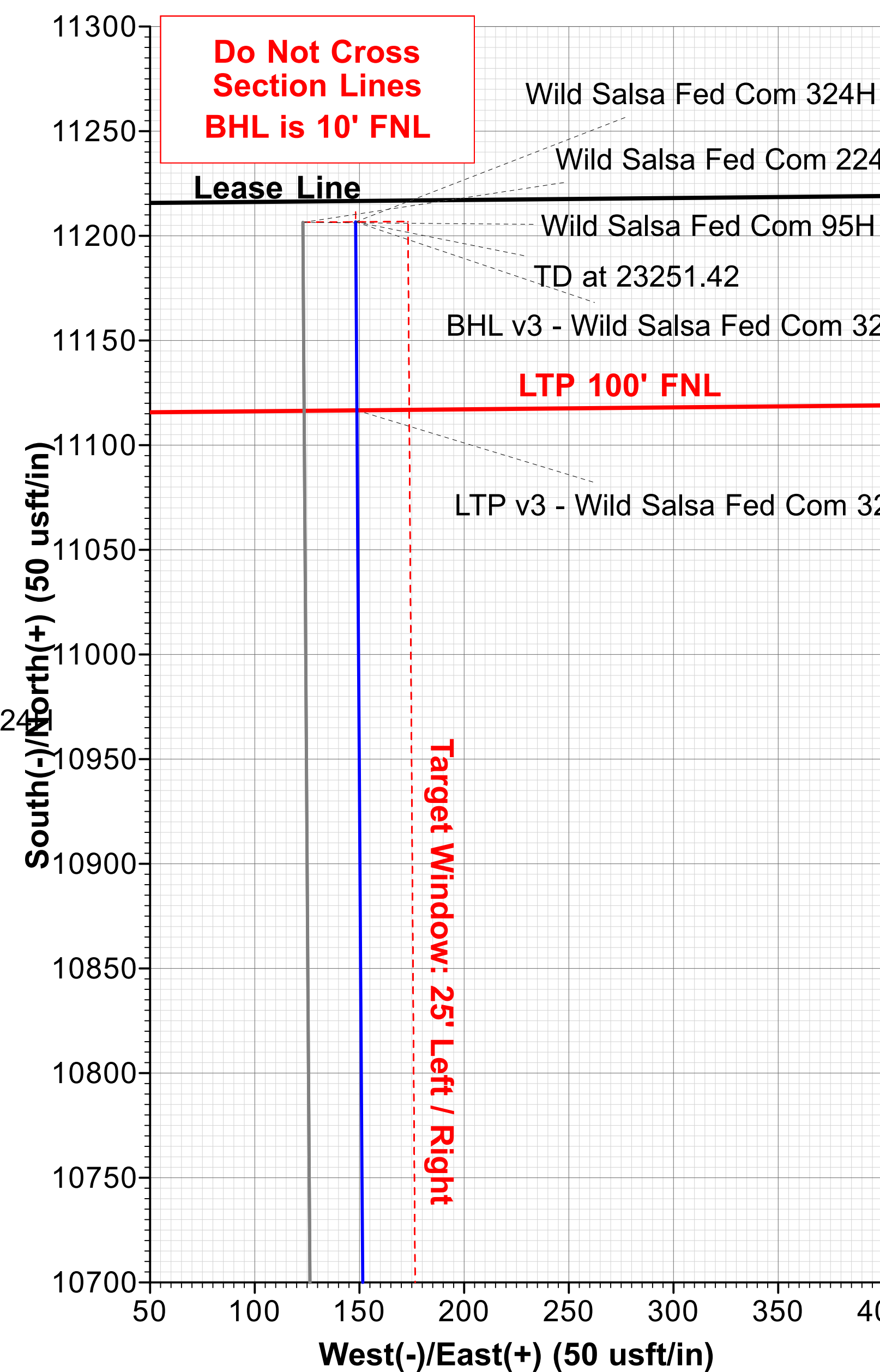
Vertical Section at 359.62° (500 usft/in)



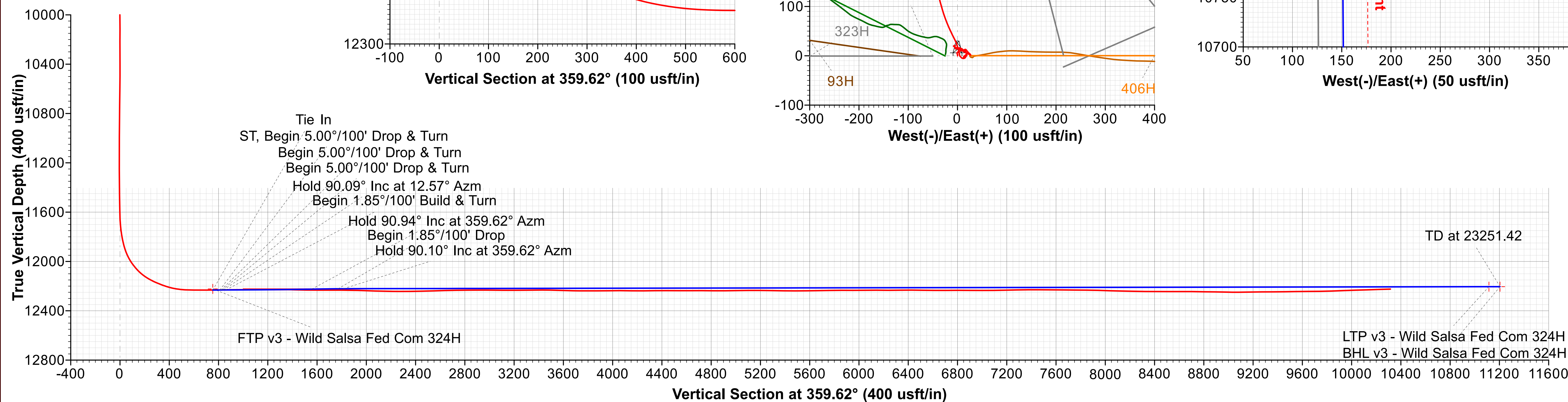
Vertical Section at 359.62° (100 usft/in)



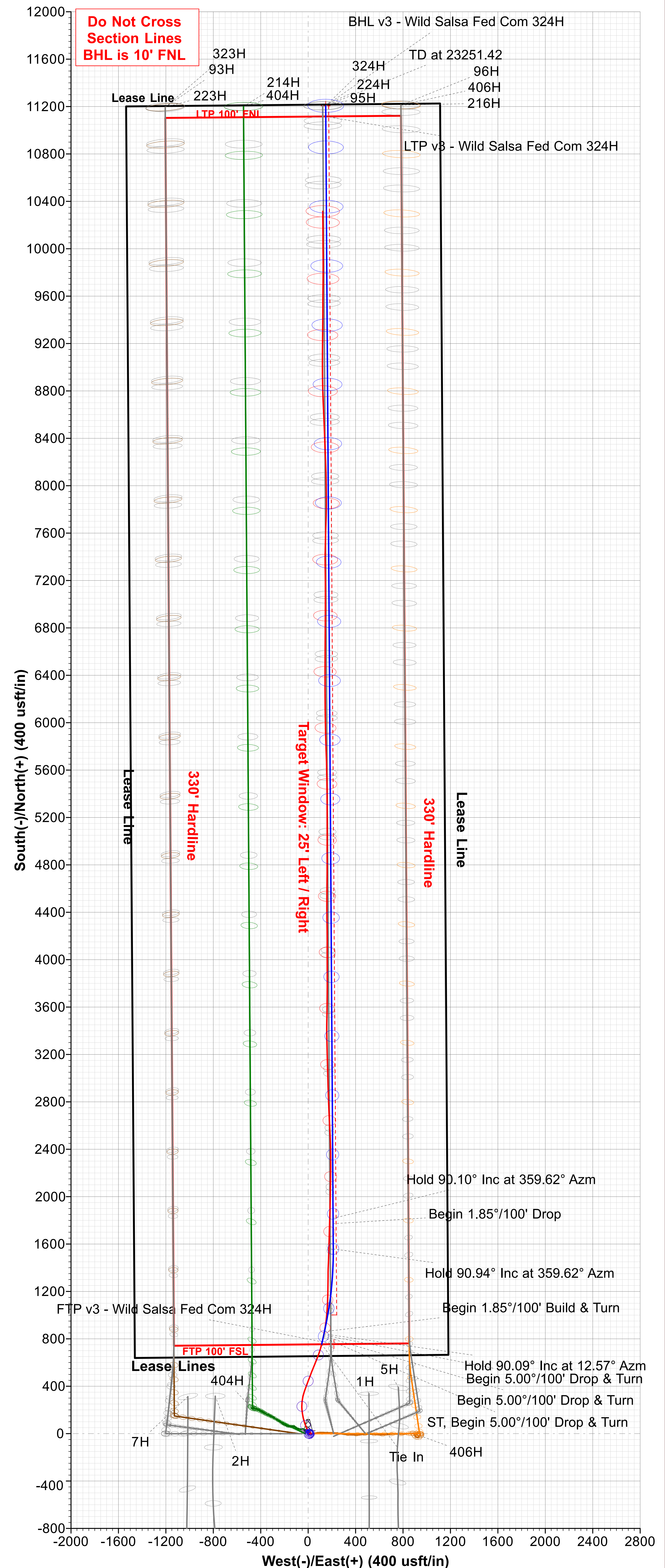
West(-)/East(+) (100 usft/in)



West(-)/East(+) (50 usft/in)



Vertical Section at 359.62° (400 usft/in)





Titus Oil & Gas Production, LLC

**Lea County, NM (NAD27 NME)
Wild Salsa Fed Com
324H**

ST01/ 67084

Plan: Plan 6 01-10-21

Standard Planning Report

10 January, 2021





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 324H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site:	Wild Salsa Fed Com	North Reference:	Grid
Well:	324H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01 / 67084		
Design:	Plan 6 01-10-21		

Project	Lea County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Wild Salsa Fed Com			
Site Position:		Northing:	466,700.37 usft	Latitude:	32° 16' 51.888720 N
From:	Map	Easting:	719,411.19 usft	Longitude:	103° 37' 24.156178 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.38 °

Well	324H					
Well Position	+N/-S	0.76 usft	Northing:	466,701.12 usft	Latitude:	32° 16' 51.891276 N
	+E/-W	75.06 usft	Easting:	719,486.25 usft	Longitude:	103° 37' 23.281788 W
Position Uncertainty		1.00 usft	Wellhead Elevation:		Ground Level:	3,721.00 usft

Wellbore	ST01 / 67084				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	1/19/2021	6.44	59.90	47,771.19364505

Design	Plan 6 01-10-21				
Audit Notes:					
Version:		Phase:	PROTOTYPE	Tie On Depth:	12,791.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.62	

Plan Survey Tool Program	Date	1/10/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	12,791.00	23,251.40	Plan 6 01-10-21 (ST01 / 67084)	MWD+HDGM+MS	
				OWSG Rev.2 MWD + HDGI	



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 324H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site:	Wild Salsa Fed Com	North Reference:	Grid
Well:	324H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01 / 67084		
Design:	Plan 6 01-10-21		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
12,791.00	89.98	13.70	12,232.37	754.57	114.27	0.00	0.00	0.00	0.00	
12,850.00	91.19	11.64	12,231.77	812.12	127.21	4.05	2.05	-3.49	-59.56	
12,860.00	90.72	11.81	12,231.60	821.91	129.24	5.00	-4.70	1.71	160.00	
12,870.00	90.34	12.13	12,231.51	831.69	131.32	5.00	-3.83	3.21	140.00	
12,880.00	90.09	12.57	12,231.47	841.46	133.46	5.00	-2.50	4.33	120.00	
12,900.00	90.09	12.57	12,231.44	860.98	137.81	0.00	0.00	0.00	0.00	
13,602.93	90.94	359.62	12,225.13	1,558.43	212.24	1.85	0.12	-1.84	-86.20	
13,816.14	90.94	359.62	12,221.64	1,771.60	210.81	0.00	0.00	0.00	0.00	
13,861.42	90.10	359.62	12,221.23	1,816.87	210.51	1.85	-1.85	0.01	179.77	
23,251.42	90.10	359.62	12,204.84	11,206.65	148.23	0.00	0.00	0.00	0.00	BHL v3 - Wild Salsa



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 324H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site:	Wild Salsa Fed Com	North Reference:	Grid
Well:	324H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01 / 67084		
Design:	Plan 6 01-10-21		

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)	
12,791.00	89.98	13.70	12,232.37	754.57	114.27	753.79	0.00	0.00	0.00	
Tie In										
12,800.00	90.16	13.39	12,232.36	763.32	116.38	762.53	4.05	2.05	-3.49	
12,850.00	91.19	11.64	12,231.77	812.12	127.21	811.26	4.05	2.05	-3.49	
ST, Begin 5.00°/100' Drop & Turn										
12,860.00	90.72	11.81	12,231.60	821.91	129.24	821.04	5.00	-4.70	1.71	
Begin 5.00°/100' Drop & Turn										
12,870.00	90.34	12.13	12,231.51	831.69	131.32	830.81	5.00	-3.83	3.21	
Begin 5.00°/100' Drop & Turn										
12,880.00	90.09	12.57	12,231.47	841.46	133.46	840.56	5.00	-2.50	4.33	
Hold 90.09° Inc at 12.57° Azm										
12,900.00	90.09	12.57	12,231.44	860.98	137.81	860.05	0.00	0.00	0.00	
Begin 1.85°/100' Build & Turn										
13,000.00	90.21	10.72	12,231.18	958.92	157.99	957.85	1.85	0.12	-1.84	
13,100.00	90.33	8.88	12,230.71	1,057.46	175.01	1,056.27	1.85	0.12	-1.84	
13,200.00	90.45	7.04	12,230.03	1,156.49	188.86	1,155.21	1.85	0.12	-1.84	
13,300.00	90.57	5.20	12,229.13	1,255.91	199.52	1,254.56	1.85	0.12	-1.84	
13,400.00	90.70	3.36	12,228.02	1,355.62	206.98	1,354.22	1.85	0.12	-1.84	
13,500.00	90.81	1.51	12,226.71	1,455.52	211.22	1,454.08	1.85	0.12	-1.84	
13,600.00	90.93	359.67	12,225.18	1,555.49	212.26	1,554.05	1.85	0.12	-1.84	
13,602.93	90.94	359.62	12,225.13	1,558.42	212.24	1,556.98	1.85	0.12	-1.84	
Hold 90.94° Inc at 359.62° Azm										
13,700.00	90.94	359.62	12,223.54	1,655.48	211.59	1,654.04	0.00	0.00	0.00	
13,800.00	90.94	359.62	12,221.91	1,755.46	210.92	1,754.03	0.00	0.00	0.00	
13,816.14	90.94	359.62	12,221.64	1,771.60	210.81	1,770.16	0.00	0.00	0.00	
Begin 1.85°/100' Drop										
13,861.42	90.10	359.62	12,221.23	1,816.88	210.51	1,815.44	1.85	-1.85	0.01	
Hold 90.10° Inc at 359.62° Azm										
13,900.00	90.10	359.62	12,221.16	1,855.46	210.25	1,854.02	0.00	0.00	0.00	
14,000.00	90.10	359.62	12,220.99	1,955.45	209.59	1,954.02	0.00	0.00	0.00	
14,100.00	90.10	359.62	12,220.82	2,055.45	208.93	2,054.02	0.00	0.00	0.00	
14,200.00	90.10	359.62	12,220.64	2,155.45	208.26	2,154.02	0.00	0.00	0.00	
14,300.00	90.10	359.62	12,220.47	2,255.45	207.60	2,254.02	0.00	0.00	0.00	
14,400.00	90.10	359.62	12,220.29	2,355.45	206.94	2,354.02	0.00	0.00	0.00	
14,500.00	90.10	359.62	12,220.12	2,455.44	206.27	2,454.02	0.00	0.00	0.00	
14,600.00	90.10	359.62	12,219.94	2,555.44	205.61	2,554.02	0.00	0.00	0.00	
14,700.00	90.10	359.62	12,219.77	2,655.44	204.95	2,654.02	0.00	0.00	0.00	
14,800.00	90.10	359.62	12,219.59	2,755.44	204.28	2,754.02	0.00	0.00	0.00	
14,900.00	90.10	359.62	12,219.42	2,855.43	203.62	2,854.02	0.00	0.00	0.00	
15,000.00	90.10	359.62	12,219.24	2,955.43	202.96	2,954.02	0.00	0.00	0.00	
15,100.00	90.10	359.62	12,219.07	3,055.43	202.29	3,054.02	0.00	0.00	0.00	
15,200.00	90.10	359.62	12,218.90	3,155.43	201.63	3,154.02	0.00	0.00	0.00	
15,300.00	90.10	359.62	12,218.72	3,255.42	200.97	3,254.02	0.00	0.00	0.00	
15,400.00	90.10	359.62	12,218.55	3,355.42	200.30	3,354.02	0.00	0.00	0.00	
15,500.00	90.10	359.62	12,218.37	3,455.42	199.64	3,454.02	0.00	0.00	0.00	
15,600.00	90.10	359.62	12,218.20	3,555.42	198.98	3,554.02	0.00	0.00	0.00	
15,700.00	90.10	359.62	12,218.02	3,655.41	198.32	3,654.02	0.00	0.00	0.00	
15,800.00	90.10	359.62	12,217.85	3,755.41	197.65	3,754.02	0.00	0.00	0.00	
15,900.00	90.10	359.62	12,217.67	3,855.41	196.99	3,854.02	0.00	0.00	0.00	
16,000.00	90.10	359.62	12,217.50	3,955.41	196.33	3,954.02	0.00	0.00	0.00	
16,100.00	90.10	359.62	12,217.33	4,055.41	195.66	4,054.02	0.00	0.00	0.00	
16,200.00	90.10	359.62	12,217.15	4,155.40	195.00	4,154.02	0.00	0.00	0.00	
16,300.00	90.10	359.62	12,216.98	4,255.40	194.34	4,254.02	0.00	0.00	0.00	



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 324H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site:	Wild Salsa Fed Com	North Reference:	Grid
Well:	324H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01 / 67084		
Design:	Plan 6 01-10-21		

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)
16,400.00	90.10	359.62	12,216.80	4,355.40	193.67	4,354.02	0.00	0.00	0.00
16,500.00	90.10	359.62	12,216.63	4,455.40	193.01	4,454.02	0.00	0.00	0.00
16,600.00	90.10	359.62	12,216.45	4,555.39	192.35	4,554.02	0.00	0.00	0.00
16,700.00	90.10	359.62	12,216.28	4,655.39	191.68	4,654.02	0.00	0.00	0.00
16,800.00	90.10	359.62	12,216.10	4,755.39	191.02	4,754.02	0.00	0.00	0.00
16,900.00	90.10	359.62	12,215.93	4,855.39	190.36	4,854.02	0.00	0.00	0.00
17,000.00	90.10	359.62	12,215.75	4,955.38	189.69	4,954.02	0.00	0.00	0.00
17,100.00	90.10	359.62	12,215.58	5,055.38	189.03	5,054.02	0.00	0.00	0.00
17,200.00	90.10	359.62	12,215.41	5,155.38	188.37	5,154.02	0.00	0.00	0.00
17,300.00	90.10	359.62	12,215.23	5,255.38	187.70	5,254.02	0.00	0.00	0.00
17,400.00	90.10	359.62	12,215.06	5,355.37	187.04	5,354.02	0.00	0.00	0.00
17,500.00	90.10	359.62	12,214.88	5,455.37	186.38	5,454.02	0.00	0.00	0.00
17,600.00	90.10	359.62	12,214.71	5,555.37	185.71	5,554.02	0.00	0.00	0.00
17,700.00	90.10	359.62	12,214.53	5,655.37	185.05	5,654.02	0.00	0.00	0.00
17,800.00	90.10	359.62	12,214.36	5,755.37	184.39	5,754.02	0.00	0.00	0.00
17,900.00	90.10	359.62	12,214.18	5,855.36	183.72	5,854.02	0.00	0.00	0.00
18,000.00	90.10	359.62	12,214.01	5,955.36	183.06	5,954.02	0.00	0.00	0.00
18,100.00	90.10	359.62	12,213.83	6,055.36	182.40	6,054.02	0.00	0.00	0.00
18,200.00	90.10	359.62	12,213.66	6,155.36	181.73	6,154.02	0.00	0.00	0.00
18,300.00	90.10	359.62	12,213.49	6,255.35	181.07	6,254.02	0.00	0.00	0.00
18,400.00	90.10	359.62	12,213.31	6,355.35	180.41	6,354.01	0.00	0.00	0.00
18,500.00	90.10	359.62	12,213.14	6,455.35	179.75	6,454.01	0.00	0.00	0.00
18,600.00	90.10	359.62	12,212.96	6,555.35	179.08	6,554.01	0.00	0.00	0.00
18,700.00	90.10	359.62	12,212.79	6,655.34	178.42	6,654.01	0.00	0.00	0.00
18,800.00	90.10	359.62	12,212.61	6,755.34	177.76	6,754.01	0.00	0.00	0.00
18,900.00	90.10	359.62	12,212.44	6,855.34	177.09	6,854.01	0.00	0.00	0.00
19,000.00	90.10	359.62	12,212.26	6,955.34	176.43	6,954.01	0.00	0.00	0.00
19,100.00	90.10	359.62	12,212.09	7,055.33	175.77	7,054.01	0.00	0.00	0.00
19,200.00	90.10	359.62	12,211.91	7,155.33	175.10	7,154.01	0.00	0.00	0.00
19,300.00	90.10	359.62	12,211.74	7,255.33	174.44	7,254.01	0.00	0.00	0.00
19,400.00	90.10	359.62	12,211.57	7,355.33	173.78	7,354.01	0.00	0.00	0.00
19,500.00	90.10	359.62	12,211.39	7,455.33	173.11	7,454.01	0.00	0.00	0.00
19,600.00	90.10	359.62	12,211.22	7,555.32	172.45	7,554.01	0.00	0.00	0.00
19,700.00	90.10	359.62	12,211.04	7,655.32	171.79	7,654.01	0.00	0.00	0.00
19,800.00	90.10	359.62	12,210.87	7,755.32	171.12	7,754.01	0.00	0.00	0.00
19,900.00	90.10	359.62	12,210.69	7,855.32	170.46	7,854.01	0.00	0.00	0.00
20,000.00	90.10	359.62	12,210.52	7,955.31	169.80	7,954.01	0.00	0.00	0.00
20,100.00	90.10	359.62	12,210.34	8,055.31	169.13	8,054.01	0.00	0.00	0.00
20,200.00	90.10	359.62	12,210.17	8,155.31	168.47	8,154.01	0.00	0.00	0.00
20,300.00	90.10	359.62	12,209.99	8,255.31	167.81	8,254.01	0.00	0.00	0.00
20,400.00	90.10	359.62	12,209.82	8,355.30	167.14	8,354.01	0.00	0.00	0.00
20,500.00	90.10	359.62	12,209.65	8,455.30	166.48	8,454.01	0.00	0.00	0.00
20,600.00	90.10	359.62	12,209.47	8,555.30	165.82	8,554.01	0.00	0.00	0.00
20,700.00	90.10	359.62	12,209.30	8,655.30	165.15	8,654.01	0.00	0.00	0.00
20,800.00	90.10	359.62	12,209.12	8,755.29	164.49	8,754.01	0.00	0.00	0.00
20,900.00	90.10	359.62	12,208.95	8,855.29	163.83	8,854.01	0.00	0.00	0.00
21,000.00	90.10	359.62	12,208.77	8,955.29	163.16	8,954.01	0.00	0.00	0.00
21,100.00	90.10	359.62	12,208.60	9,055.29	162.50	9,054.01	0.00	0.00	0.00
21,200.00	90.10	359.62	12,208.42	9,155.29	161.84	9,154.01	0.00	0.00	0.00
21,300.00	90.10	359.62	12,208.25	9,255.28	161.17	9,254.01	0.00	0.00	0.00
21,400.00	90.10	359.62	12,208.07	9,355.28	160.51	9,354.01	0.00	0.00	0.00
21,500.00	90.10	359.62	12,207.90	9,455.28	159.85	9,454.01	0.00	0.00	0.00
21,600.00	90.10	359.62	12,207.73	9,555.28	159.19	9,554.01	0.00	0.00	0.00
21,700.00	90.10	359.62	12,207.55	9,655.27	158.52	9,654.01	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 324H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3747.50usft (H&P 474)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3747.50usft (H&P 474)
Site:	Wild Salsa Fed Com	North Reference:	Grid
Well:	324H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01 / 67084		
Design:	Plan 6 01-10-21		

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)	
21,800.00	90.10	359.62	12,207.38	9,755.27	157.86	9,754.01	0.00	0.00	0.00	
21,900.00	90.10	359.62	12,207.20	9,855.27	157.20	9,854.01	0.00	0.00	0.00	
22,000.00	90.10	359.62	12,207.03	9,955.27	156.53	9,954.01	0.00	0.00	0.00	
22,100.00	90.10	359.62	12,206.85	10,055.26	155.87	10,054.01	0.00	0.00	0.00	
22,200.00	90.10	359.62	12,206.68	10,155.26	155.21	10,154.01	0.00	0.00	0.00	
22,300.00	90.10	359.62	12,206.50	10,255.26	154.54	10,254.01	0.00	0.00	0.00	
22,400.00	90.10	359.62	12,206.33	10,355.26	153.88	10,354.01	0.00	0.00	0.00	
22,500.00	90.10	359.62	12,206.16	10,455.25	153.22	10,454.01	0.00	0.00	0.00	
22,600.00	90.10	359.62	12,205.98	10,555.25	152.55	10,554.01	0.00	0.00	0.00	
22,700.00	90.10	359.62	12,205.81	10,655.25	151.89	10,654.01	0.00	0.00	0.00	
22,800.00	90.10	359.62	12,205.63	10,755.25	151.23	10,754.01	0.00	0.00	0.00	
22,900.00	90.10	359.62	12,205.46	10,855.25	150.56	10,854.01	0.00	0.00	0.00	
23,000.00	90.10	359.62	12,205.28	10,955.24	149.90	10,954.01	0.00	0.00	0.00	
23,100.00	90.10	359.62	12,205.11	11,055.24	149.24	11,054.01	0.00	0.00	0.00	
23,200.00	90.10	359.62	12,204.93	11,155.24	148.57	11,154.01	0.00	0.00	0.00	
23,251.42	90.10	359.62	12,204.84	11,206.65	148.23	11,205.42	0.00	0.00	0.00	
TD at 23251.42										

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- Shape										
BHL v3 - Wild Salsa F	-0.10	359.62	12,204.84	11,206.65	148.23	477,907.78	719,634.48	2° 18' 42.777052 N	3° 37' 20.689767 W	
- plan hits target center										
- Rectangle (sides W50.00 H10,205.36 D0.00)										
LTP v3 - Wild Salsa F	0.00	0.00	12,205.00	11,116.65	148.62	477,817.78	719,634.87	2° 18' 41.886433 N	3° 37' 20.692253 W	
- plan misses target center by 0.21usft at 23161.42usft MD (12205.00 TVD, 11116.66 N, 148.83 E)										
- Point										
FTP v3 - Wild Salsa F	0.00	0.00	12,223.00	755.24	217.66	467,456.37	719,703.91	2° 16' 59.350544 N	3° 37' 20.688160 W	
- plan misses target center by 100.90usft at 12814.17usft MD (12232.28 TVD, 777.12 N, 119.60 E)										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
12,791.00	12,232.37	754.57	114.27	Tie In	
12,850.00	12,231.77	812.12	127.21	ST, Begin 5.00°/100' Drop & Turn	
12,860.00	12,231.60	821.91	129.24	Begin 5.00°/100' Drop & Turn	
12,870.00	12,231.51	831.69	131.32	Begin 5.00°/100' Drop & Turn	
12,880.00	12,231.47	841.46	133.46	Hold 90.09° Inc at 12.57° Azm	
12,900.00	12,231.44	860.98	137.81	Begin 1.85°/100' Build & Turn	
13,602.93	12,225.13	1,558.42	212.24	Hold 90.94° Inc at 359.62° Azm	
13,816.14	12,221.64	1,771.60	210.81	Begin 1.85°/100' Drop	
13,861.42	12,221.23	1,816.88	210.51	Hold 90.10° Inc at 359.62° Azm	
23,251.42	12,204.84	11,206.65	148.23	TD at 23251.42	

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 14533

CONDITIONS OF APPROVAL

Operator: TITUS OIL & GAS PRODUCTION, LL 420 Throckmorton St, Ste 1150 Fort Worth, TX76012			OGRID: 373986	Action Number: 14533	Action Type: C-103A
OCD Reviewer			Condition		
pkautz			None		