

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMLC063228

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
WILD SALSA 24-13 FED 406H9. API Well No.
30-025-4799210. Field and Pool or Exploratory Area
DIAMONDTAIL

11. County or Parish, State

LEA COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Contact: RYAN DELONG

TITUS OIL AND GAS PRODUCTION IE-Mail: rdelong@titusoil.com

3a. Address

420 THROCKMORTON ST., SUITE 1150
FORT WORTH, TX 76102

3b. Phone No. (include area code)

Ph: 817-852-6358

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 25 T23S R32E Tract A 653FNL 1161FEL
32.281204 N Lat, 103.623535 W Lon**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Titus respectfully requests the following changes to the approved APD:

Assigned acres changed from "600ac" to "640ac" (see revised plat)

Name change from "Wild Salsa 24-13 Fed" to "Wild Salsa Fed Com"

Target correction from "Diamondtail; Bone Spring" to "Diamondtail; Wolfcamp"

BHL change from 1318' FNL & 330' FEL to 10' FNL & 330' FEL, Sec 13, T23S R32E (see revised plat)

Equipment change to multi-bowl wellhead (see attached schematics)

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #533696 verified by the BLM Well Information System
For TITUS OIL AND GAS PRODUCTION L, sent to the Hobbs
Committed to AFMSS for processing by DEBORAH HAM on 10/14/2020 (21DMH0006SE)**

Name (Printed/Typed) RYAN DELONG

Title REGULATORY MANAGER

Signature (Electronic Submission)

Date 10/13/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By (BLM Approver Not Specified) _____

Title

Date 10/26/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

KZ

Additional data for EC transaction #533696 that would not fit on the form

32. Additional remarks, continued

Intermediate cement change from single stage to two-stage (see attached drilling plan)

Exception to WOC COA's (see attached email)

Attachments:

C-102/Survey Plat

Drilling Plan

7-5/8" L80 HC Performance Data Sheet

Multi-Bowl Wellhead Schematic

Directional Plan

Directional AC Report

Email from Tim Smith to Yolanda Jimenez

Revisions to Operator-Submitted EC Data for Sundry Notice #533696

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMLC063228	NMLC063228
Agreement:		
Operator:	TITUS OIL&GAS PRODUCTION, LLC 420 THROCKMORTON STREET SUITE 1150 FORT WORTH, TX 76102 Ph: 817-852-6358	TITUS OIL AND GAS PRODUCTION L 420 THROCKMORTON ST., SUITE 1150 FORT WORTH, TX 76102 Ph: 8178526358
Admin Contact:	RYAN DELONG REGULATORY MANAGER E-Mail: rdelong@titusoil.com Ph: 817-852-6358	RYAN DELONG REGULATORY MANAGER E-Mail: rdelong@titusoil.com Ph: 817-852-6358
Tech Contact:	RYAN DELONG REGULATORY MANAGER E-Mail: rdelong@titusoil.com Ph: 817-852-6358	RYAN DELONG REGULATORY MANAGER E-Mail: rdelong@titusoil.com Ph: 817-852-6358
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	DIAMONDTAIL; WOLFCAMP	DIAMONDTAIL
Well/Facility:	WILD SALSA 24-13 FED 406H Sec 25 T23S R32E Mer NMP 653FNL 1161FEL 32.281204 N Lat, 103.623535 W Lon	WILD SALSA 24-13 FED 406H Sec 25 T23S R32E Tract A 653FNL 1161FEL 32.281204 N Lat, 103.623535 W Lon

Titus Oil & Gas Production, LLC - Wild Salsa Fed Com 406H

1. Geologic Formations

TVD of target	12,380' EOL	Pilot hole depth	NA
MD at TD:	23,510'	Deepest expected fresh water:	400'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1315	Water	
Top of Salt	1350	Salt	
Base of Salt	4817	Salt	
Lamar	5015	Salt Water	
Delaware	5097	Salt Water	
Bone Spring Lime	8862	Oil/Gas	
1st Bone Spring	10002	Oil/Gas	
2nd Bone Spring	10622	Oil/Gas	
3rd Bone spring	11900	Oil/Gas	
Wolfcamp	12208	Oil/Gas	
Wolfcamp X Sand	12242	Oil/Gas	
Wolfcamp Y Sand	12296	Target Oil/Gas	
x	x	Not Penetrated	
x	x	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body
	From	To							
13.5"	0	1340	10.75"	45.5	J55	BTC	3.41	0.82	11.73
9.875"	0	11900	7.625"	29.7	HCL80	BTC	1.19	1.08	2.05
6.75"	0	11700	5.5"	20	P110	BTC	1.91	1.99	3.27
6.75"	11700	23,510	5"	18	P110	BTC	1.91	1.99	3.27
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5" casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

Titus Oil & Gas Production, LLC - Wild Salsa Fed Com 406H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Titus Oil & Gas Production, LLC - Wild Salsa Fed Com 406H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	350	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int Stg 1	500	10.3	3.6	22.95	16	TXI Lightweight Blend
	300	15.0	1.27	5.72	8	Tail: Class H
Int Stg 2	800	12.7	2.0	11.16	16	TXI Lightweight Blend
	100	14.8	1.33	6.33	8	Tail: Class H
Prod	350	11.9	2.5	19	72	Lead: 50:50:10 H Blend
	1300	14.2	1.3	6.2	19	Tail: 50:50:2 Class H Blend

Operator will utilize a DVT/ECP on the 7.625" Intermediate casing to pump a 2-stage cement job.

The DVT/ECP will be place +/- 5,000' near the Lamar in gauge competent formation.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	11,400'	35% OH in Lateral (KOP to EOL)

Titus Oil & Gas Production, LLC - Wild Salsa Fed Com 406H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	3M	Annular	x	3000 psi
			Blind Ram		3M
			Pipe Ram		
			Double Ram		
			Other*		
6-3/4"	13-5/8"	5M	Annular	x	50% testing pressure
			Blind Ram	x	5M
			VBR Ram	x	
			VBR Ram	x	
			Other*		

See attached 5M Annular Variance Well Control plan for Titus Oil & Gas Production, LLC.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Nova N-Gauge	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	10.8 - 11.8	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
N	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7600 psi at 12380' TVD
Abnormal Temperature	NO 180 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
N	Is casing pre-set?

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan
x	Multibowl Schematic

7 5/8" 29.70# High Collapse L80 with Buttress Threads**DIMENSIONAL DATA**

Casing OD	7.625 in.	Pipe Grade	HC L80
Coupling OD	8.500 in.	Coupling Grade	L80
Pipe Gauge	.375 in.	T&C WPF	29.70 lb/ft
Drift Diameter	6.750 in.	PE WPF	29.06 lb/ft

MECHANICAL DATA

Pipe Yield	80,000 psi	Collapse Pressure	6,620 psi
Pipe Tensile	95,000 psi	Internal Yield Pressure	6,890 psi
Coupling Yield	80,000 psi	PE Body Yield	683,000 lbs
Coupling Tensile	95,000 psi	Pipe Hydrostatic Test	6,300 psi

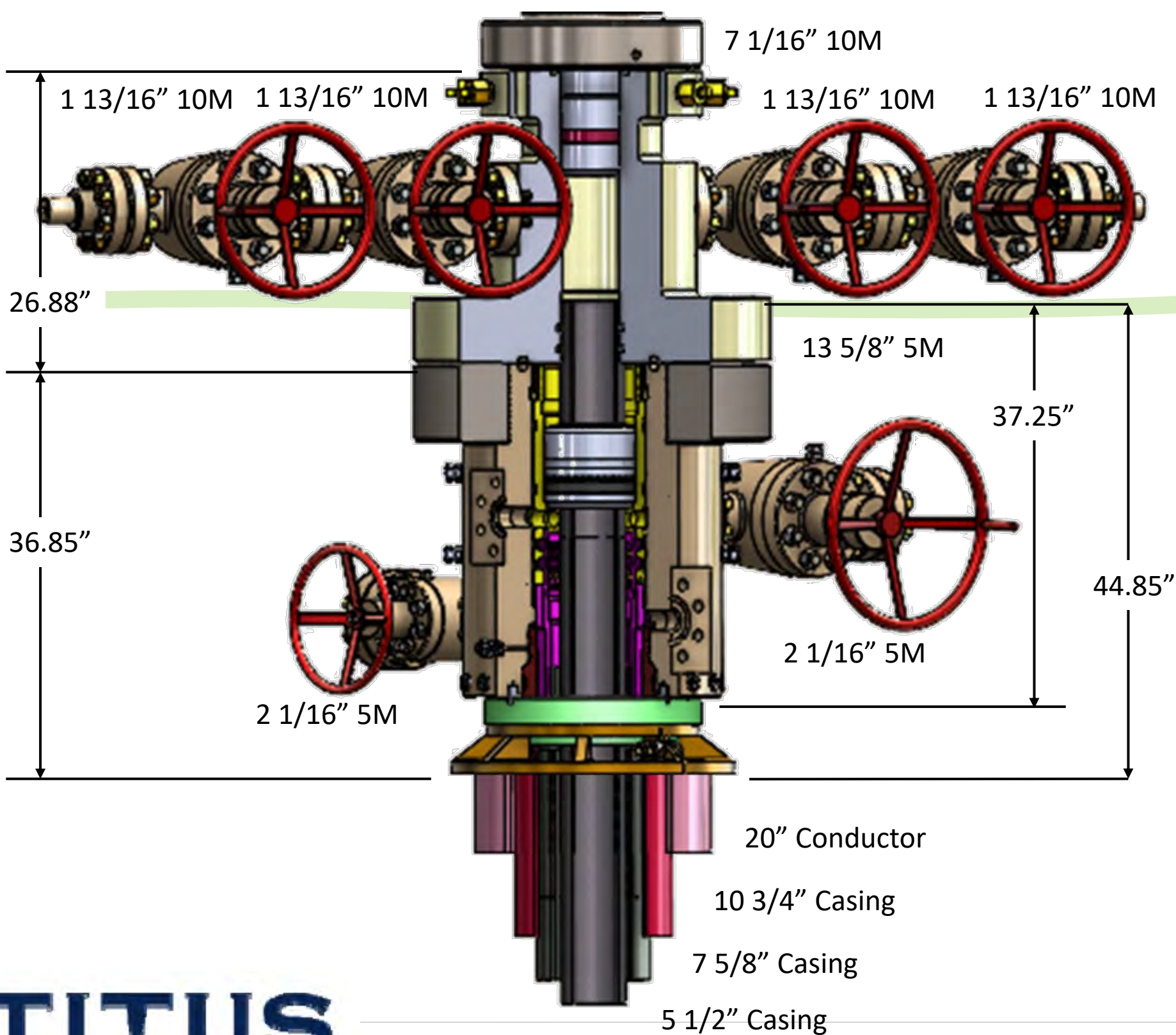
CONNECTION DATA

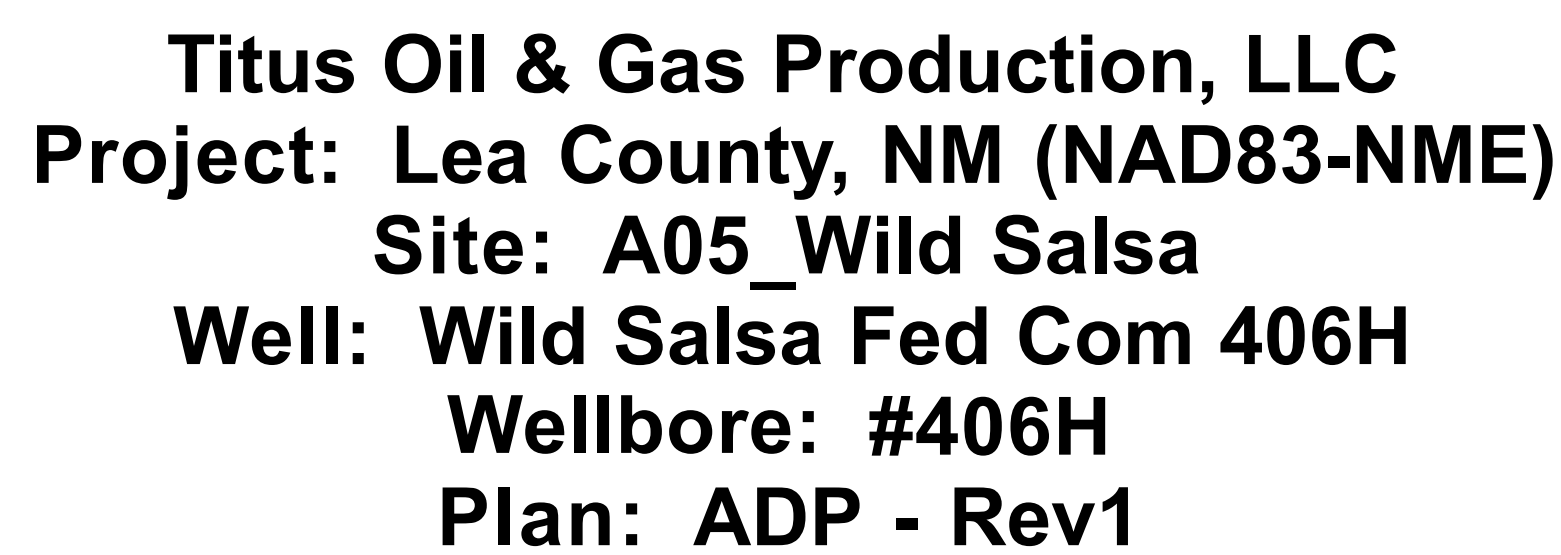
Thread Name	Buttress	Coupling Thread Fracture	1,177,000 lbs
Leak @ E1 Or E7 Plane	12,680 psi	Pipe Thread Fracture	721,000 lbs

LEGAL NOTICE

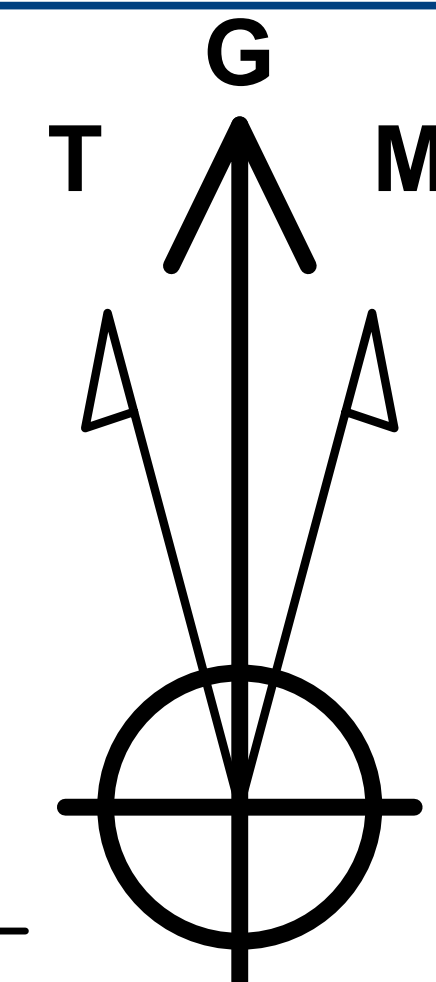
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T&A Cap





Northing	Easting	Latitude	Longitude	Slot
466760.74	760694.73	32.28120458	-103.62353509	406H



Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.29°

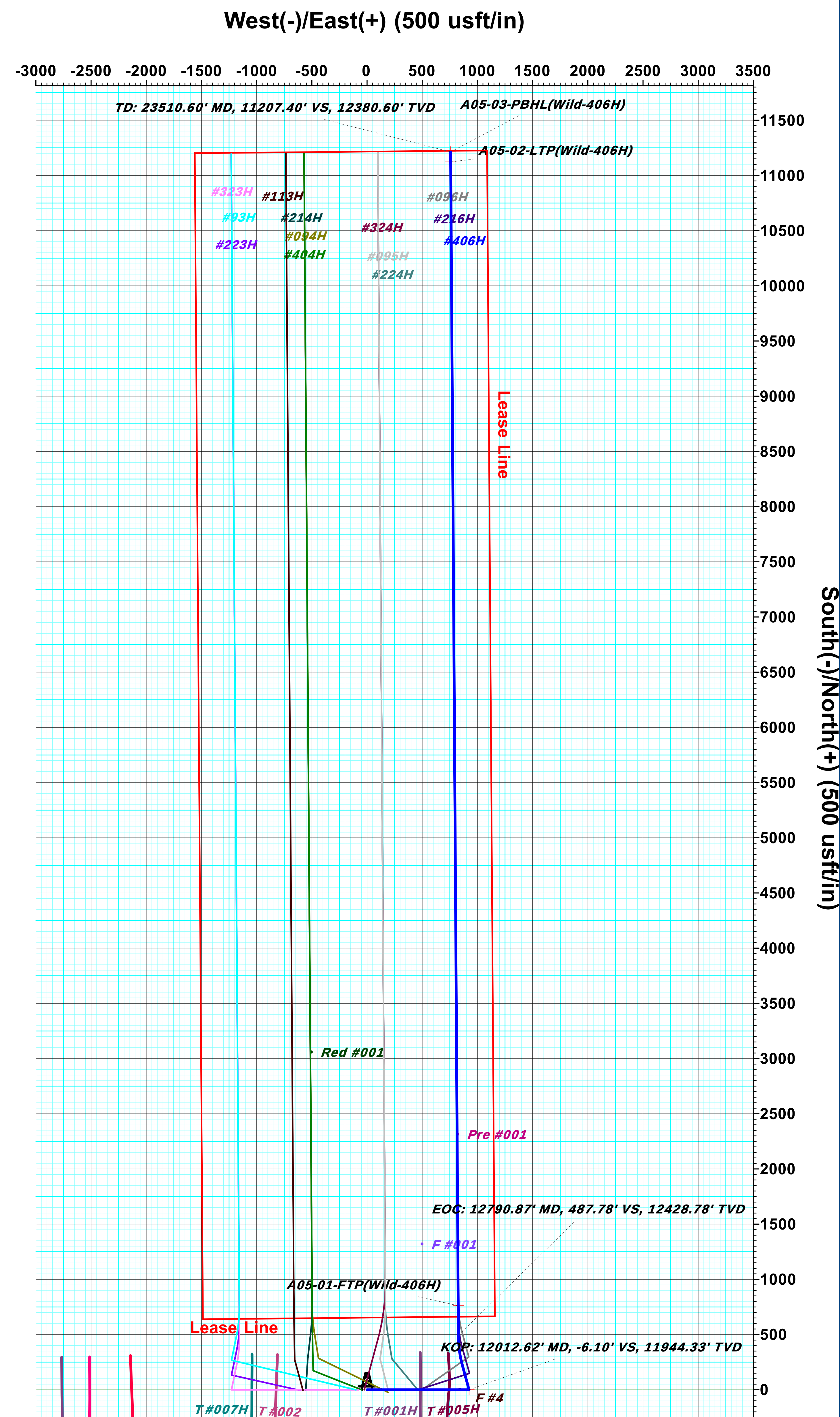
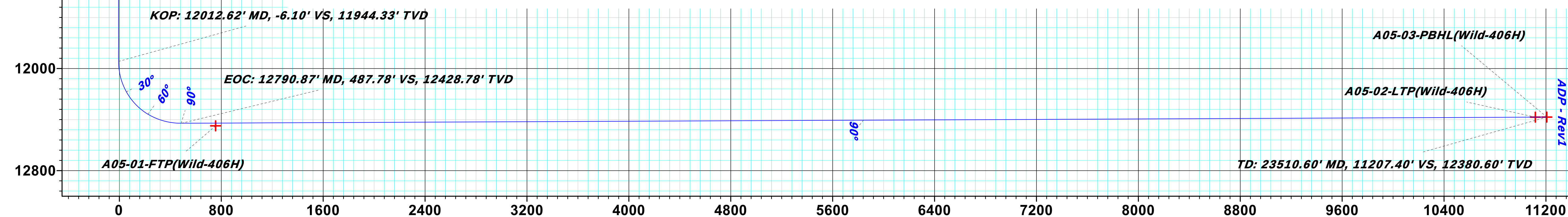
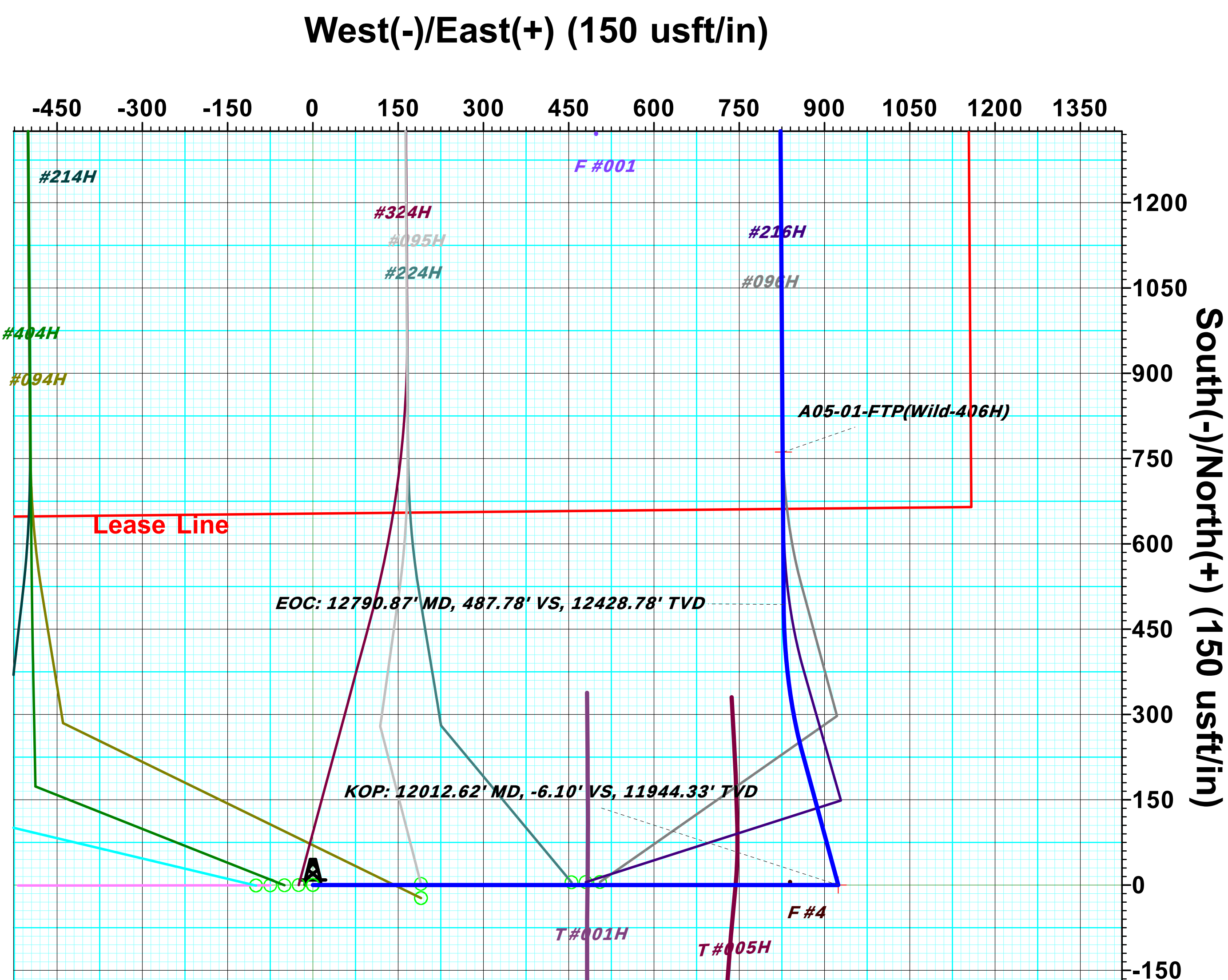
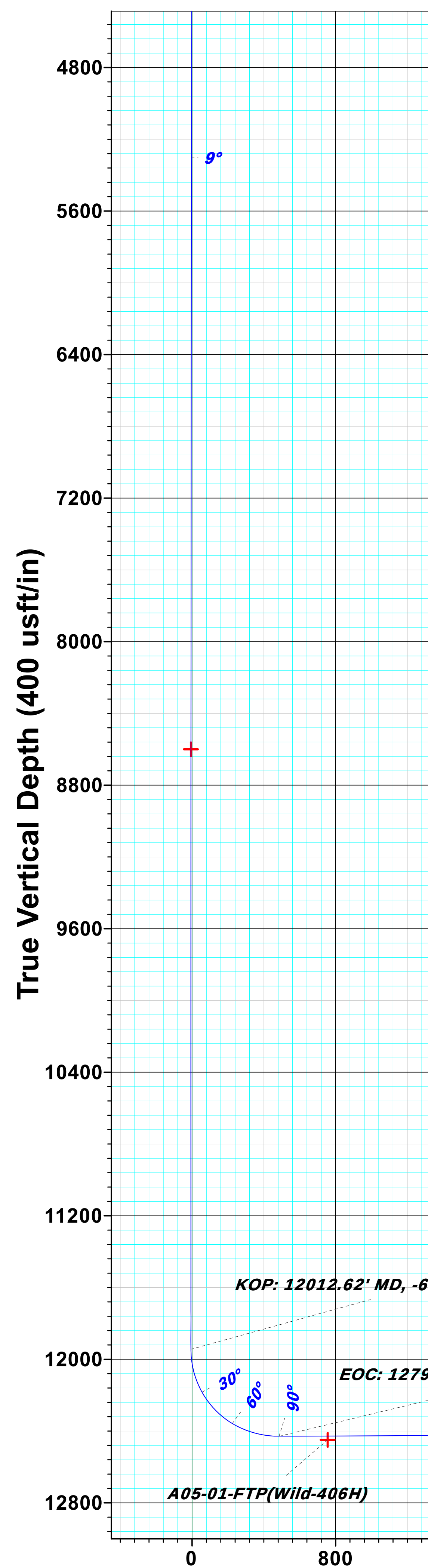
Magnetic Field
Strength: 47603.9snT
Dip Angle: 59.97°
Date: 8/26/2020
Model: IGRF2020

PROJECT DETAILS: Lea County, NM (NAD83-NME)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid
Grid Convergence: 0.38° West
KB Elevation: KB @ 3746.00usft
Elevation: 3721.00

Section Details									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
3	2582.11	8.73	90.00	2579.86	0.00	44.27	1.50	90.00	-0.29
4	8086.18	8.73	90.00	8020.14	0.03	879.83	0.00	0.00	-5.81
5	8668.29	0.00	0.00	8600.00	0.03	924.10	1.50	180.00	-6.10
6	12012.62	0.00	0.00	11944.33	0.03	924.10	0.00	0.00	-6.10
7	12512.62	60.00	344.80	12357.83	230.41	861.51	12.00	344.80	224.69
8	12790.87	90.26	359.62	12428.78	493.28	828.05	12.00	27.70	487.78
9	23420.59	90.26	359.62	12381.00	11122.67	758.34	0.00	0.00	11117.40
10	23510.60	90.26	359.62	12380.60	11212.67	757.75	0.00	0.00	11207.40

DESIGN TARGET DETAILS

<i>Name</i>	<i>+N/-S</i>	<i>+E/-W</i>	<i>Northing</i>	<i>Easting</i>
<i>A05-00-EON(Wild-L8-C)</i>	<i>0.03</i>	<i>924.10</i>	<i>466760.77</i>	<i>761618.83</i>
<i>A05-03-PBHL(Wild-406H)</i>	<i>11122.67</i>	<i>757.73</i>	<i>477973.41</i>	<i>761452.46</i>
<i>A05-02-LTP(Wild-406H)</i>	<i>11122.67</i>	<i>758.34</i>	<i>477883.41</i>	<i>761453.07</i>
<i>A05-01-FTP(Wild-406H)</i>	<i>761.35</i>	<i>827.65</i>	<i>467522.09</i>	<i>761522.38</i>





Titus Oil & Gas Production, LLC

Lea County, NM (NAD83-NME)

A05_Wild Salsa

Wild Salsa Fed Com 406H - Slot 406H

#406H

Plan: ADP - Rev1

Standard Planning Report

14 September, 2020

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	KB @ 3746.00usft
Project:	Lea County, NM (NAD83-NME)	MD Reference:	KB @ 3746.00usft
Site:	A05_Wild Salsa	North Reference:	Grid
Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#406H		
Design:	ADP - Rev1		

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

Site	A05_Wild Salsa					
Site Position:		Northing:	466,757.00 usft	Latitude:	32.28120093	
From:	Map	Easting:	760,329.60 usft	Longitude:	-103.62471658	
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.38 °

Well	Wild Salsa Fed Com 406H - Slot 406H					
Well Position	+N/-S	3.74 usft	Northing:	466,760.74 usft	Latitude:	32.28120458
	+E/-W	365.13 usft	Easting:	760,694.73 usft	Longitude:	-103.62353509
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,721.00 usft

Wellbore	#406H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/26/2020	6.67	59.97	47,603.89422812

Design	ADP - Rev1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
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	9/14/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	23,510.36	ADP - Rev1 (#406H)	MWD+IFR1+SAG+MS OWSG MWD + IFR1 + Sag + M

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	KB @ 3746.00usft
Project:	Lea County, NM (NAD83-NME)	MD Reference:	KB @ 3746.00usft
Site:	A05_Wild Salsa	North Reference:	Grid
Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#406H		
Design:	ADP - Rev1		

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,582.11	8.73	90.00	2,579.86	0.00	44.27	1.50	1.50	0.00	90.00	
8,086.18	8.73	90.00	8,020.14	0.03	879.83	0.00	0.00	0.00	0.00	
8,668.29	0.00	0.01	8,600.00	0.03	924.10	1.50	-1.50	0.00	180.00	A05-00-EON(Wild-L8-
12,012.62	0.00	0.01	11,944.33	0.03	924.10	0.00	0.00	0.00	0.01	
12,512.62	60.00	344.80	12,357.83	230.41	861.51	12.00	12.00	0.00	344.80	
12,790.87	90.26	359.62	12,428.78	493.28	828.05	12.00	10.87	5.33	27.70	
23,420.60	90.26	359.62	12,381.00	11,122.67	758.34	0.00	0.00	0.00	0.00	A05-02-LTP(Wild-406
23,510.60	90.26	359.62	12,380.60	11,212.67	757.75	0.00	0.00	0.00	0.00	A05-03-PBHL(Wild-40

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	KB @ 3746.00usft
Project:	Lea County, NM (NAD83-NME)	MD Reference:	KB @ 3746.00usft
Site:	A05_Wild Salsa	North Reference:	Grid
Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#406H		
Design:	ADP - Rev1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	1.50	90.00	2,099.99	0.00	1.31	-0.01	1.50	1.50	0.00
2,200.00	3.00	90.00	2,199.91	0.00	5.23	-0.03	1.50	1.50	0.00
2,300.00	4.50	90.00	2,299.69	0.00	11.77	-0.08	1.50	1.50	0.00
2,400.00	6.00	90.00	2,399.27	0.00	20.92	-0.14	1.50	1.50	0.00
2,500.00	7.50	90.00	2,498.57	0.00	32.68	-0.22	1.50	1.50	0.00
2,582.11	8.73	90.00	2,579.86	0.00	44.27	-0.29	1.50	1.50	0.00
2,600.00	8.73	90.00	2,597.54	0.00	46.99	-0.31	0.00	0.00	0.00
2,700.00	8.73	90.00	2,696.38	0.00	62.17	-0.41	0.00	0.00	0.00
2,800.00	8.73	90.00	2,795.22	0.00	77.35	-0.51	0.00	0.00	0.00
2,900.00	8.73	90.00	2,894.07	0.00	92.53	-0.61	0.00	0.00	0.00
3,000.00	8.73	90.00	2,992.91	0.00	107.71	-0.71	0.00	0.00	0.00
3,100.00	8.73	90.00	3,091.75	0.00	122.89	-0.81	0.00	0.00	0.00
3,200.00	8.73	90.00	3,190.59	0.00	138.07	-0.91	0.00	0.00	0.00
3,300.00	8.73	90.00	3,289.43	0.00	153.25	-1.01	0.00	0.00	0.00
3,400.00	8.73	90.00	3,388.27	0.01	168.43	-1.11	0.00	0.00	0.00
3,500.00	8.73	90.00	3,487.11	0.01	183.61	-1.21	0.00	0.00	0.00
3,600.00	8.73	90.00	3,585.95	0.01	198.79	-1.31	0.00	0.00	0.00
3,700.00	8.73	90.00	3,684.79	0.01	213.97	-1.41	0.00	0.00	0.00
3,800.00	8.73	90.00	3,783.63	0.01	229.15	-1.51	0.00	0.00	0.00
3,900.00	8.73	90.00	3,882.48	0.01	244.34	-1.61	0.00	0.00	0.00
4,000.00	8.73	90.00	3,981.32	0.01	259.52	-1.71	0.00	0.00	0.00
4,100.00	8.73	90.00	4,080.16	0.01	274.70	-1.81	0.00	0.00	0.00
4,200.00	8.73	90.00	4,179.00	0.01	289.88	-1.91	0.00	0.00	0.00
4,300.00	8.73	90.00	4,277.84	0.01	305.06	-2.01	0.00	0.00	0.00
4,400.00	8.73	90.00	4,376.68	0.01	320.24	-2.11	0.00	0.00	0.00
4,500.00	8.73	90.00	4,475.52	0.01	335.42	-2.21	0.00	0.00	0.00
4,600.00	8.73	90.00	4,574.36	0.01	350.60	-2.31	0.00	0.00	0.00
4,700.00	8.73	90.00	4,673.20	0.01	365.78	-2.41	0.00	0.00	0.00
4,800.00	8.73	90.00	4,772.04	0.01	380.96	-2.51	0.00	0.00	0.00
4,900.00	8.73	90.00	4,870.89	0.01	396.14	-2.61	0.00	0.00	0.00
5,000.00	8.73	90.00	4,969.73	0.01	411.32	-2.71	0.00	0.00	0.00
5,100.00	8.73	90.00	5,068.57	0.01	426.50	-2.81	0.00	0.00	0.00
5,200.00	8.73	90.00	5,167.41	0.01	441.69	-2.92	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	KB @ 3746.00usft
Project:	Lea County, NM (NAD83-NME)	MD Reference:	KB @ 3746.00usft
Site:	A05_Wild Salsa	North Reference:	Grid
Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#406H		
Design:	ADP - Rev1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	8.73	90.00	5,266.25	0.01	456.87	-3.02	0.00	0.00	0.00
5,400.00	8.73	90.00	5,365.09	0.02	472.05	-3.12	0.00	0.00	0.00
5,500.00	8.73	90.00	5,463.93	0.02	487.23	-3.22	0.00	0.00	0.00
5,600.00	8.73	90.00	5,562.77	0.02	502.41	-3.32	0.00	0.00	0.00
5,700.00	8.73	90.00	5,661.61	0.02	517.59	-3.42	0.00	0.00	0.00
5,800.00	8.73	90.00	5,760.45	0.02	532.77	-3.52	0.00	0.00	0.00
5,900.00	8.73	90.00	5,859.30	0.02	547.95	-3.62	0.00	0.00	0.00
6,000.00	8.73	90.00	5,958.14	0.02	563.13	-3.72	0.00	0.00	0.00
6,100.00	8.73	90.00	6,056.98	0.02	578.31	-3.82	0.00	0.00	0.00
6,200.00	8.73	90.00	6,155.82	0.02	593.49	-3.92	0.00	0.00	0.00
6,300.00	8.73	90.00	6,254.66	0.02	608.67	-4.02	0.00	0.00	0.00
6,400.00	8.73	90.00	6,353.50	0.02	623.85	-4.12	0.00	0.00	0.00
6,500.00	8.73	90.00	6,452.34	0.02	639.04	-4.22	0.00	0.00	0.00
6,600.00	8.73	90.00	6,551.18	0.02	654.22	-4.32	0.00	0.00	0.00
6,700.00	8.73	90.00	6,650.02	0.02	669.40	-4.42	0.00	0.00	0.00
6,800.00	8.73	90.00	6,748.86	0.02	684.58	-4.52	0.00	0.00	0.00
6,900.00	8.73	90.00	6,847.71	0.02	699.76	-4.62	0.00	0.00	0.00
7,000.00	8.73	90.00	6,946.55	0.02	714.94	-4.72	0.00	0.00	0.00
7,100.00	8.73	90.00	7,045.39	0.02	730.12	-4.82	0.00	0.00	0.00
7,200.00	8.73	90.00	7,144.23	0.02	745.30	-4.92	0.00	0.00	0.00
7,300.00	8.73	90.00	7,243.07	0.02	760.48	-5.02	0.00	0.00	0.00
7,400.00	8.73	90.00	7,341.91	0.03	775.66	-5.12	0.00	0.00	0.00
7,500.00	8.73	90.00	7,440.75	0.03	790.84	-5.22	0.00	0.00	0.00
7,600.00	8.73	90.00	7,539.59	0.03	806.02	-5.32	0.00	0.00	0.00
7,700.00	8.73	90.00	7,638.43	0.03	821.20	-5.42	0.00	0.00	0.00
7,800.00	8.73	90.00	7,737.27	0.03	836.39	-5.52	0.00	0.00	0.00
7,900.00	8.73	90.00	7,836.12	0.03	851.57	-5.62	0.00	0.00	0.00
8,000.00	8.73	90.00	7,934.96	0.03	866.75	-5.72	0.00	0.00	0.00
8,086.18	8.73	90.00	8,020.14	0.03	879.83	-5.81	0.00	0.00	0.00
8,100.00	8.52	90.00	8,033.80	0.03	881.90	-5.82	1.50	-1.50	0.00
8,200.00	7.02	90.00	8,132.88	0.03	895.43	-5.91	1.50	-1.50	0.00
8,300.00	5.52	90.00	8,232.28	0.03	906.36	-5.98	1.50	-1.50	0.00
8,400.00	4.02	90.00	8,331.93	0.03	914.68	-6.04	1.50	-1.50	0.00
8,500.00	2.52	90.00	8,431.76	0.03	920.39	-6.07	1.50	-1.50	0.00
8,600.00	1.02	90.00	8,531.71	0.03	923.49	-6.09	1.50	-1.50	0.00
8,668.29	0.00	0.01	8,600.00	0.03	924.10	-6.10	1.50	-1.50	0.00
A05-00-EON(Wild-L8-C)									
8,700.00	0.00	0.00	8,631.71	0.03	924.10	-6.10	0.00	0.00	0.00
8,800.00	0.00	0.00	8,731.71	0.03	924.10	-6.10	0.00	0.00	0.00
8,900.00	0.00	0.00	8,831.71	0.03	924.10	-6.10	0.00	0.00	0.00
9,000.00	0.00	0.00	8,931.71	0.03	924.10	-6.10	0.00	0.00	0.00
9,100.00	0.00	0.00	9,031.71	0.03	924.10	-6.10	0.00	0.00	0.00
9,200.00	0.00	0.00	9,131.71	0.03	924.10	-6.10	0.00	0.00	0.00
9,300.00	0.00	0.00	9,231.71	0.03	924.10	-6.10	0.00	0.00	0.00
9,400.00	0.00	0.00	9,331.71	0.03	924.10	-6.10	0.00	0.00	0.00
9,500.00	0.00	0.00	9,431.71	0.03	924.10	-6.10	0.00	0.00	0.00
9,600.00	0.00	0.00	9,531.71	0.03	924.10	-6.10	0.00	0.00	0.00
9,700.00	0.00	0.00	9,631.71	0.03	924.10	-6.10	0.00	0.00	0.00
9,800.00	0.00	0.00	9,731.71	0.03	924.10	-6.10	0.00	0.00	0.00
9,900.00	0.00	0.00	9,831.71	0.03	924.10	-6.10	0.00	0.00	0.00
10,000.00	0.00	0.00	9,931.71	0.03	924.10	-6.10	0.00	0.00	0.00
10,100.00	0.00	0.00	10,031.71	0.03	924.10	-6.10	0.00	0.00	0.00
10,200.00	0.00	0.00	10,131.71	0.03	924.10	-6.10	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	KB @ 3746.00usft
Project:	Lea County, NM (NAD83-NME)	MD Reference:	KB @ 3746.00usft
Site:	A05_Wild Salsa	North Reference:	Grid
Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#406H		
Design:	ADP - Rev1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,300.00	0.00	0.00	10,231.71	0.03	924.10	-6.10	0.00	0.00	0.00
10,400.00	0.00	0.00	10,331.71	0.03	924.10	-6.10	0.00	0.00	0.00
10,500.00	0.00	0.00	10,431.71	0.03	924.10	-6.10	0.00	0.00	0.00
10,600.00	0.00	0.00	10,531.71	0.03	924.10	-6.10	0.00	0.00	0.00
10,700.00	0.00	0.00	10,631.71	0.03	924.10	-6.10	0.00	0.00	0.00
10,800.00	0.00	0.00	10,731.71	0.03	924.10	-6.10	0.00	0.00	0.00
10,900.00	0.00	0.00	10,831.71	0.03	924.10	-6.10	0.00	0.00	0.00
11,000.00	0.00	0.00	10,931.71	0.03	924.10	-6.10	0.00	0.00	0.00
11,100.00	0.00	0.00	11,031.71	0.03	924.10	-6.10	0.00	0.00	0.00
11,200.00	0.00	0.00	11,131.71	0.03	924.10	-6.10	0.00	0.00	0.00
11,300.00	0.00	0.00	11,231.71	0.03	924.10	-6.10	0.00	0.00	0.00
11,400.00	0.00	0.00	11,331.71	0.03	924.10	-6.10	0.00	0.00	0.00
11,500.00	0.00	0.00	11,431.71	0.03	924.10	-6.10	0.00	0.00	0.00
11,600.00	0.00	0.00	11,531.71	0.03	924.10	-6.10	0.00	0.00	0.00
11,700.00	0.00	0.00	11,631.71	0.03	924.10	-6.10	0.00	0.00	0.00
11,800.00	0.00	0.00	11,731.71	0.03	924.10	-6.10	0.00	0.00	0.00
11,900.00	0.00	0.00	11,831.71	0.03	924.10	-6.10	0.00	0.00	0.00
12,000.00	0.00	0.00	11,931.71	0.03	924.10	-6.10	0.00	0.00	0.00
12,012.62	0.00	0.00	11,944.33	0.03	924.10	-6.10	0.00	0.00	0.00
KOP: 12012.62' MD, -6.10' VS, 11944.33' TVD									
12,025.00	1.49	344.80	11,956.71	0.18	924.06	-5.94	12.00	12.00	0.00
12,050.00	4.49	344.80	11,981.67	1.44	923.72	-4.69	12.00	12.00	0.00
12,075.00	7.49	344.80	12,006.53	3.96	923.03	-2.17	12.00	12.00	0.00
12,100.00	10.49	344.80	12,031.22	7.72	922.01	1.61	12.00	12.00	0.00
12,125.00	13.49	344.80	12,055.67	12.73	920.65	6.63	12.00	12.00	0.00
12,150.00	16.49	344.80	12,079.82	18.97	918.95	12.88	12.00	12.00	0.00
12,175.00	19.49	344.80	12,103.60	26.42	916.93	20.34	12.00	12.00	0.00
12,200.00	22.49	344.80	12,126.93	35.06	914.58	28.99	12.00	12.00	0.00
12,225.00	25.49	344.80	12,149.77	44.86	911.92	38.81	12.00	12.00	0.00
12,250.00	28.49	344.80	12,172.05	55.81	908.95	49.78	12.00	12.00	0.00
12,275.00	31.49	344.80	12,193.70	67.87	905.67	61.86	12.00	12.00	0.00
12,300.00	34.49	344.80	12,214.67	81.00	902.10	75.01	12.00	12.00	0.00
12,325.00	37.49	344.80	12,234.89	95.17	898.25	89.21	12.00	12.00	0.00
12,350.00	40.49	344.80	12,254.33	110.35	894.13	104.42	12.00	12.00	0.00
12,375.00	43.49	344.80	12,272.91	126.49	889.74	120.58	12.00	12.00	0.00
12,400.00	46.49	344.80	12,290.59	143.54	885.11	137.66	12.00	12.00	0.00
12,425.00	49.49	344.80	12,307.32	161.46	880.24	155.62	12.00	12.00	0.00
12,450.00	52.49	344.80	12,323.05	180.20	875.15	174.40	12.00	12.00	0.00
12,475.00	55.49	344.80	12,337.75	199.72	869.85	193.94	12.00	12.00	0.00
12,500.00	58.49	344.80	12,351.37	219.94	864.35	214.21	12.00	12.00	0.00
12,512.62	60.00	344.80	12,357.83	230.41	861.51	224.69	12.00	12.00	0.00
12,525.00	61.32	345.59	12,363.89	240.84	858.75	235.14	12.00	10.64	6.36
12,550.00	63.99	347.12	12,375.38	262.42	853.52	256.75	12.00	10.70	6.13
12,575.00	66.68	348.58	12,385.81	284.63	848.74	278.99	12.00	10.76	5.85
12,600.00	69.38	349.99	12,395.16	307.40	844.43	301.80	12.00	10.81	5.62
12,625.00	72.10	351.34	12,403.40	330.69	840.60	325.11	12.00	10.85	5.42
12,650.00	74.82	352.66	12,410.52	354.42	837.27	348.86	12.00	10.89	5.26
12,675.00	77.55	353.94	12,416.49	378.53	834.44	372.99	12.00	10.92	5.12
12,700.00	80.28	355.19	12,421.30	402.95	832.12	397.42	12.00	10.94	5.02
12,725.00	83.03	356.43	12,424.93	427.62	830.31	422.10	12.00	10.96	4.94
12,750.00	85.77	357.65	12,427.37	452.46	829.02	446.95	12.00	10.97	4.88
12,775.00	88.51	358.86	12,428.61	477.41	828.26	471.91	12.00	10.98	4.84
12,790.87	90.26	359.62	12,428.78	493.28	828.05	487.78	12.00	10.98	4.83
EOC: 12790.87' MD, 487.78' VS, 12428.78' TVD									

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	KB @ 3746.00usft
Project:	Lea County, NM (NAD83-NME)	MD Reference:	KB @ 3746.00usft
Site:	A05_Wild Salsa	North Reference:	Grid
Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#406H		
Design:	ADP - Rev1		

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)
12,800.00	90.26	359.62	12,428.74	502.41	827.99	496.91	0.00	0.00	0.00
12,900.00	90.26	359.62	12,428.29	602.41	827.34	596.91	0.00	0.00	0.00
13,000.00	90.26	359.62	12,427.84	702.40	826.68	696.91	0.00	0.00	0.00
13,058.84	90.26	359.62	12,427.58	761.24	826.29	755.75	0.00	0.00	0.00
A05-01-FTP(Wild-406H)									
13,100.00	90.26	359.62	12,427.39	802.40	826.02	796.91	0.00	0.00	0.00
13,200.00	90.26	359.62	12,426.94	902.40	825.37	896.90	0.00	0.00	0.00
13,300.00	90.26	359.62	12,426.50	1,002.40	824.71	996.90	0.00	0.00	0.00
13,400.00	90.26	359.62	12,426.05	1,102.39	824.06	1,096.90	0.00	0.00	0.00
13,500.00	90.26	359.62	12,425.60	1,202.39	823.40	1,196.90	0.00	0.00	0.00
13,600.00	90.26	359.62	12,425.15	1,302.39	822.75	1,296.90	0.00	0.00	0.00
13,700.00	90.26	359.62	12,424.70	1,402.38	822.09	1,396.90	0.00	0.00	0.00
13,800.00	90.26	359.62	12,424.25	1,502.38	821.43	1,496.90	0.00	0.00	0.00
13,900.00	90.26	359.62	12,423.80	1,602.38	820.78	1,596.90	0.00	0.00	0.00
14,000.00	90.26	359.62	12,423.35	1,702.37	820.12	1,696.90	0.00	0.00	0.00
14,100.00	90.26	359.62	12,422.90	1,802.37	819.47	1,796.90	0.00	0.00	0.00
14,200.00	90.26	359.62	12,422.45	1,902.37	818.81	1,896.89	0.00	0.00	0.00
14,300.00	90.26	359.62	12,422.00	2,002.36	818.16	1,996.89	0.00	0.00	0.00
14,400.00	90.26	359.62	12,421.55	2,102.36	817.50	2,096.89	0.00	0.00	0.00
14,500.00	90.26	359.62	12,421.10	2,202.36	816.84	2,196.89	0.00	0.00	0.00
14,600.00	90.26	359.62	12,420.65	2,302.35	816.19	2,296.89	0.00	0.00	0.00
14,700.00	90.26	359.62	12,420.20	2,402.35	815.53	2,396.89	0.00	0.00	0.00
14,800.00	90.26	359.62	12,419.75	2,502.35	814.88	2,496.89	0.00	0.00	0.00
14,900.00	90.26	359.62	12,419.30	2,602.34	814.22	2,596.89	0.00	0.00	0.00
15,000.00	90.26	359.62	12,418.85	2,702.34	813.56	2,696.89	0.00	0.00	0.00
15,100.00	90.26	359.62	12,418.40	2,802.34	812.91	2,796.89	0.00	0.00	0.00
15,200.00	90.26	359.62	12,417.95	2,902.34	812.25	2,896.88	0.00	0.00	0.00
15,300.00	90.26	359.62	12,417.50	3,002.33	811.60	2,996.88	0.00	0.00	0.00
15,400.00	90.26	359.62	12,417.05	3,102.33	810.94	3,096.88	0.00	0.00	0.00
15,500.00	90.26	359.62	12,416.61	3,202.33	810.29	3,196.88	0.00	0.00	0.00
15,600.00	90.26	359.62	12,416.16	3,302.32	809.63	3,296.88	0.00	0.00	0.00
15,700.00	90.26	359.62	12,415.71	3,402.32	808.97	3,396.88	0.00	0.00	0.00
15,800.00	90.26	359.62	12,415.26	3,502.32	808.32	3,496.88	0.00	0.00	0.00
15,900.00	90.26	359.62	12,414.81	3,602.31	807.66	3,596.88	0.00	0.00	0.00
16,000.00	90.26	359.62	12,414.36	3,702.31	807.01	3,696.88	0.00	0.00	0.00
16,100.00	90.26	359.62	12,413.91	3,802.31	806.35	3,796.88	0.00	0.00	0.00
16,200.00	90.26	359.62	12,413.46	3,902.30	805.69	3,896.87	0.00	0.00	0.00
16,300.00	90.26	359.62	12,413.01	4,002.30	805.04	3,996.87	0.00	0.00	0.00
16,400.00	90.26	359.62	12,412.56	4,102.30	804.38	4,096.87	0.00	0.00	0.00
16,500.00	90.26	359.62	12,412.11	4,202.29	803.73	4,196.87	0.00	0.00	0.00
16,600.00	90.26	359.62	12,411.66	4,302.29	803.07	4,296.87	0.00	0.00	0.00
16,700.00	90.26	359.62	12,411.21	4,402.29	802.42	4,396.87	0.00	0.00	0.00
16,800.00	90.26	359.62	12,410.76	4,502.28	801.76	4,496.87	0.00	0.00	0.00
16,900.00	90.26	359.62	12,410.31	4,602.28	801.10	4,596.87	0.00	0.00	0.00
17,000.00	90.26	359.62	12,409.86	4,702.28	800.45	4,696.87	0.00	0.00	0.00
17,100.00	90.26	359.62	12,409.41	4,802.27	799.79	4,796.86	0.00	0.00	0.00
17,200.00	90.26	359.62	12,408.96	4,902.27	799.14	4,896.86	0.00	0.00	0.00
17,300.00	90.26	359.62	12,408.51	5,002.27	798.48	4,996.86	0.00	0.00	0.00
17,400.00	90.26	359.62	12,408.06	5,102.27	797.82	5,096.86	0.00	0.00	0.00
17,500.00	90.26	359.62	12,407.61	5,202.26	797.17	5,196.86	0.00	0.00	0.00
17,600.00	90.26	359.62	12,407.17	5,302.26	796.51	5,296.86	0.00	0.00	0.00
17,700.00	90.26	359.62	12,406.72	5,402.26	795.86	5,396.86	0.00	0.00	0.00
17,800.00	90.26	359.62	12,406.27	5,502.25	795.20	5,496.86	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	KB @ 3746.00usft
Project:	Lea County, NM (NAD83-NME)	MD Reference:	KB @ 3746.00usft
Site:	A05_Wild Salsa	North Reference:	Grid
Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#406H		
Design:	ADP - Rev1		

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)
17,900.00	90.26	359.62	12,405.82	5,602.25	794.55	5,596.86	0.00	0.00	0.00
18,000.00	90.26	359.62	12,405.37	5,702.25	793.89	5,696.86	0.00	0.00	0.00
18,100.00	90.26	359.62	12,404.92	5,802.24	793.23	5,796.85	0.00	0.00	0.00
18,200.00	90.26	359.62	12,404.47	5,902.24	792.58	5,896.85	0.00	0.00	0.00
18,300.00	90.26	359.62	12,404.02	6,002.24	791.92	5,996.85	0.00	0.00	0.00
18,400.00	90.26	359.62	12,403.57	6,102.23	791.27	6,096.85	0.00	0.00	0.00
18,500.00	90.26	359.62	12,403.12	6,202.23	790.61	6,196.85	0.00	0.00	0.00
18,600.00	90.26	359.62	12,402.67	6,302.23	789.95	6,296.85	0.00	0.00	0.00
18,700.00	90.26	359.62	12,402.22	6,402.22	789.30	6,396.85	0.00	0.00	0.00
18,800.00	90.26	359.62	12,401.77	6,502.22	788.64	6,496.85	0.00	0.00	0.00
18,900.00	90.26	359.62	12,401.32	6,602.22	787.99	6,596.85	0.00	0.00	0.00
19,000.00	90.26	359.62	12,400.87	6,702.21	787.33	6,696.85	0.00	0.00	0.00
19,100.00	90.26	359.62	12,400.42	6,802.21	786.68	6,796.84	0.00	0.00	0.00
19,200.00	90.26	359.62	12,399.97	6,902.21	786.02	6,896.84	0.00	0.00	0.00
19,300.00	90.26	359.62	12,399.52	7,002.21	785.36	6,996.84	0.00	0.00	0.00
19,400.00	90.26	359.62	12,399.07	7,102.20	784.71	7,096.84	0.00	0.00	0.00
19,500.00	90.26	359.62	12,398.62	7,202.20	784.05	7,196.84	0.00	0.00	0.00
19,600.00	90.26	359.62	12,398.17	7,302.20	783.40	7,296.84	0.00	0.00	0.00
19,700.00	90.26	359.62	12,397.73	7,402.19	782.74	7,396.84	0.00	0.00	0.00
19,800.00	90.26	359.62	12,397.28	7,502.19	782.08	7,496.84	0.00	0.00	0.00
19,900.00	90.26	359.62	12,396.83	7,602.19	781.43	7,596.84	0.00	0.00	0.00
20,000.00	90.26	359.62	12,396.38	7,702.18	780.77	7,696.84	0.00	0.00	0.00
20,100.00	90.26	359.62	12,395.93	7,802.18	780.12	7,796.83	0.00	0.00	0.00
20,200.00	90.26	359.62	12,395.48	7,902.18	779.46	7,896.83	0.00	0.00	0.00
20,300.00	90.26	359.62	12,395.03	8,002.17	778.81	7,996.83	0.00	0.00	0.00
20,400.00	90.26	359.62	12,394.58	8,102.17	778.15	8,096.83	0.00	0.00	0.00
20,500.00	90.26	359.62	12,394.13	8,202.17	777.49	8,196.83	0.00	0.00	0.00
20,600.00	90.26	359.62	12,393.68	8,302.16	776.84	8,296.83	0.00	0.00	0.00
20,700.00	90.26	359.62	12,393.23	8,402.16	776.18	8,396.83	0.00	0.00	0.00
20,800.00	90.26	359.62	12,392.78	8,502.16	775.53	8,496.83	0.00	0.00	0.00
20,900.00	90.26	359.62	12,392.33	8,602.15	774.87	8,596.83	0.00	0.00	0.00
21,000.00	90.26	359.62	12,391.88	8,702.15	774.21	8,696.83	0.00	0.00	0.00
21,100.00	90.26	359.62	12,391.43	8,802.15	773.56	8,796.82	0.00	0.00	0.00
21,200.00	90.26	359.62	12,390.98	8,902.15	772.90	8,896.82	0.00	0.00	0.00
21,300.00	90.26	359.62	12,390.53	9,002.14	772.25	8,996.82	0.00	0.00	0.00
21,400.00	90.26	359.62	12,390.08	9,102.14	771.59	9,096.82	0.00	0.00	0.00
21,500.00	90.26	359.62	12,389.63	9,202.14	770.94	9,196.82	0.00	0.00	0.00
21,600.00	90.26	359.62	12,389.18	9,302.13	770.28	9,296.82	0.00	0.00	0.00
21,700.00	90.26	359.62	12,388.73	9,402.13	769.62	9,396.82	0.00	0.00	0.00
21,800.00	90.26	359.62	12,388.29	9,502.13	768.97	9,496.82	0.00	0.00	0.00
21,900.00	90.26	359.62	12,387.84	9,602.12	768.31	9,596.82	0.00	0.00	0.00
22,000.00	90.26	359.62	12,387.39	9,702.12	767.66	9,696.82	0.00	0.00	0.00
22,100.00	90.26	359.62	12,386.94	9,802.12	767.00	9,796.81	0.00	0.00	0.00
22,200.00	90.26	359.62	12,386.49	9,902.11	766.34	9,896.81	0.00	0.00	0.00
22,300.00	90.26	359.62	12,386.04	10,002.11	765.69	9,996.81	0.00	0.00	0.00
22,400.00	90.26	359.62	12,385.59	10,102.11	765.03	10,096.81	0.00	0.00	0.00
22,500.00	90.26	359.62	12,385.14	10,202.10	764.38	10,196.81	0.00	0.00	0.00
22,600.00	90.26	359.62	12,384.69	10,302.10	763.72	10,296.81	0.00	0.00	0.00
22,700.00	90.26	359.62	12,384.24	10,402.10	763.07	10,396.81	0.00	0.00	0.00
22,800.00	90.26	359.62	12,383.79	10,502.09	762.41	10,496.81	0.00	0.00	0.00
22,900.00	90.26	359.62	12,383.34	10,602.09	761.75	10,596.81	0.00	0.00	0.00
23,000.00	90.26	359.62	12,382.89	10,702.09	761.10	10,696.81	0.00	0.00	0.00
23,100.00	90.26	359.62	12,382.44	10,802.09	760.44	10,796.80	0.00	0.00	0.00
23,200.00	90.26	359.62	12,381.99	10,902.08	759.79	10,896.80	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	KB @ 3746.00usft
Project:	Lea County, NM (NAD83-NME)	MD Reference:	KB @ 3746.00usft
Site:	A05_Wild Salsa	North Reference:	Grid
Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#406H		
Design:	ADP - Rev1		

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)
23,300.00	90.26	359.62	12,381.54	11,002.08	759.13	10,996.80	0.00	0.00	0.00
23,400.00	90.26	359.62	12,381.09	11,102.08	758.48	11,096.80	0.00	0.00	0.00
23,420.60	90.26	359.62	12,381.00	11,122.67	758.34	11,117.40	0.00	0.00	0.00
A05-02-LTP(Wild-406H)									
23,500.00	90.26	359.62	12,380.64	11,202.07	757.82	11,196.80	0.00	0.00	0.00
23,510.60	90.26	359.62	12,380.60	11,212.67	757.75	11,207.40	0.00	0.00	0.00
TD: 23510.60' MD, 11207.40' VS, 12380.60' TVD - A05-03-PBHL(Wild-406H)									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
A05-00-EON(Wild-L8-C) - plan hits target center - Point	0.00	0.01	8,600.00	0.03	924.10	466,760.77	761,618.83	32.28118782	-103.62054507
A05-03-PBHL(Wild-406H) - plan misses target center by 0.02usft at 23510.60usft MD (12380.60 TVD, 11212.67 N, 757.75 E) - Point	0.00	0.00	12,380.60	11,212.67	757.73	477,973.41	761,452.46	32.31201061	-103.62084232
A05-02-LTP(Wild-406H) - plan hits target center - Point	0.00	0.00	12,381.00	11,122.67	758.34	477,883.41	761,453.07	32.31176322	-103.62084228
A05-01-FTP(Wild-406H) - plan misses target center by 21.46usft at 13058.84usft MD (12427.58 TVD, 761.24 N, 826.29 E) - Point	0.00	0.01	12,449.00	761.35	827.65	467,522.09	761,522.38	32.28328219	-103.62084078

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
+N/-S (usft)	+E/-W (usft)			
12,012.62	11,944.33	0.03	924.10	KOP: 12012.62' MD, -6.10' VS, 11944.33' TVD
12,790.87	12,428.78	493.28	828.05	EOC: 12790.87' MD, 487.78' VS, 12428.78' TVD
23,510.60	12,380.60	11,212.67	757.75	TD: 23510.60' MD, 11207.40' VS, 12380.60' TVD



Titus Oil & Gas Production, LLC

Lea County, NM (NAD83-NME)

A05_Wild Salsa

Wild Salsa Fed Com 406H

#406H

ADP - Rev1

Anticollision Report

14 September, 2020

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Reference	ADP - Rev1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum separation factor of 25.00	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	9/14/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	23,510.36	ADP - Rev1 (#406H)	MWD+IFR1+SAG+MS	OWSG MWD + IFR1 + Sag + Multi-Station Correction

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
A05_Wild Salsa						
Wild Salsa Fed Com 113H - #113H - ADP - Rev1	9,607.97	9,546.09	1,602.40	1,534.82	23.711	CC
Wild Salsa Fed Com 113H - #113H - ADP - Rev1	9,700.00	9,630.15	1,602.45	1,534.26	23.500	ES
Wild Salsa Fed Com 113H - #113H - ADP - Rev1	23,510.60	20,814.09	2,761.32	2,625.53	20.335	SF
Wild Salsa Fed Com 214H - #214H - ADP - Rev1	8,500.00	8,436.16	1,484.28	1,424.48	24.821	CC
Wild Salsa Fed Com 214H - #214H - ADP - Rev1	10,400.00	10,331.64	1,487.96	1,414.79	20.338	ES
Wild Salsa Fed Com 214H - #214H - ADP - Rev1	23,510.60	21,505.04	2,044.37	1,897.65	13.933	SF
Wild Salsa Fed Com 216H - #216H - ADP - Rev1	7,654.73	7,604.49	134.64	80.23	2.475	CC
Wild Salsa Fed Com 216H - #216H - ADP - Rev1	10,400.00	10,348.15	148.96	75.15	2.018	ES, SF
Wild Salsa Fed Com 223H - #223H - ADP - Rev1	23,510.60	22,025.09	2,323.85	2,152.24	13.541	CC, ES, SF
Wild Salsa Fed Com 224H - #224H - ADP - Rev1	4,406.87	4,384.43	133.27	102.27	4.298	CC, ES
Wild Salsa Fed Com 224H - #224H - ADP - Rev1	4,500.00	4,475.84	134.46	102.79	4.246	SF
Wild Salsa Fed Com 323H - #323H - ADP - Rev1	1,305.90	1,303.90	75.11	66.21	8.433	CC
Wild Salsa Fed Com 323H - #323H - ADP - Rev1	1,400.00	1,397.07	75.41	65.84	7.877	ES
Wild Salsa Fed Com 323H - #323H - ADP - Rev1	1,600.00	1,592.89	83.00	72.05	7.583	SF
Wild Salsa Fed Com 324H - #324H - ADP - Rev1	2,000.00	2,000.00	24.97	11.08	1.798	CC, ES, SF
Wild Salsa Fed Com 404H - #404H - ADP - Rev1	1,304.67	1,303.67	50.02	41.12	5.619	CC
Wild Salsa Fed Com 404H - #404H - ADP - Rev1	1,400.00	1,398.41	50.31	40.73	5.252	ES
Wild Salsa Fed Com 404H - #404H - ADP - Rev1	1,500.00	1,497.14	52.69	42.41	5.127	SF
Wild Salsa Fed Com 93H - #93H - ADP - Rev1	1,305.90	1,303.90	100.04	91.14	11.232	CC
Wild Salsa Fed Com 93H - #93H - ADP - Rev1	1,400.00	1,396.81	100.33	90.76	10.480	ES
Wild Salsa Fed Com 93H - #93H - ADP - Rev1	1,600.00	1,591.53	107.67	96.72	9.833	SF
Wild Salsa Fed Com 94H - #094H - ADP - Rev1	2,727.39	2,729.31	35.00	15.99	1.842	CC, ES, SF
Wild Salsa Fed Com 95H - #095H - ADP - Rev1	3,272.29	3,260.60	82.73	59.86	3.618	CC
Wild Salsa Fed Com 95H - #095H - ADP - Rev1	3,300.00	3,287.91	82.86	59.80	3.592	ES, SF
Wild Salsa Fed Com 96H - #096H - ADP - Rev1	7,107.69	7,052.12	265.64	215.16	5.262	CC
Wild Salsa Fed Com 96H - #096H - ADP - Rev1	7,300.00	7,243.45	266.35	214.44	5.131	ES
Wild Salsa Fed Com 96H - #096H - ADP - Rev1	9,000.00	8,942.01	297.63	233.50	4.641	SF

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
A06_Offset Wild Salsa						
W01 DIAMONDTAIL 24 FEDERAL #1 33344 - D #1 - Inc	14,935.25	10,300.00	4,777.48	4,529.87	19.295	CC, ES
W01 DIAMONDTAIL 24 FEDERAL #1 33344 - D #1 - Inc	15,300.00	10,300.00	4,791.38	4,542.48	19.250	SF
W02 DIAMONDTAIL 24 FEDERAL A #001 3351 - D A #0	16,248.20	10,300.00	5,083.30	4,738.14	14.727	CC, ES
W02 DIAMONDTAIL 24 FEDERAL A #001 3351 - D A #0	16,600.00	10,300.00	5,095.46	4,748.66	14.693	SF
W03 TRISTE DRAW 25 FEDERAL #001H 40877 - T #00	11,084.24	15,056.47	441.04	321.58	3.692	CC, ES, SF
W04 TRISTE DRAW 25 FEDERAL #002 41149 - T #002	11,102.63	15,045.84	1,746.14	1,625.52	14.476	CC, ES, SF
W05 TRISTE DRAW 25 FEDERAL #005H 42105 - T #00	9,967.66	14,078.39	179.94	64.89	1.564	CC, ES, SF
W06 TRISTE DRAW 25 FEDERAL #007H - T #007H - M	9,995.14	14,262.28	1,967.02	1,852.33	17.151	CC
W06 TRISTE DRAW 25 FEDERAL #007H - T #007H - M	10,000.00	14,262.30	1,967.03	1,852.31	17.148	ES
W06 TRISTE DRAW 25 FEDERAL #007H - T #007H - M	10,100.00	14,262.83	1,969.81	1,854.82	17.130	SF
W07 TRISTE DRAW 25 FEDERAL COM #003 - T #003 -						Out of range
W08 TRISTE DRAW 25 FEDERAL COM #008H 42102 -						Out of range
W09 TRISTE DRAW 25 FEDERAL COM #009H - T #009						Out of range
W10 TRISTE DRAW 25 FEDERAL COM #010H 42082 -						Out of range
W11 TRISTE DRAW 25 FEDERAL COM #011H 43997 -						Out of range
W12 TRISTE DRAW 25 FEDERAL COM #012H 43998 -						Out of range
W13 TRISTE DRAW 25 FEDERAL COM #013H 44001 -						Out of range
W14 RED DEER 24 FEDERAL #001 33955 - Red #001 -	5,800.00	5,723.03	3,231.57	3,100.60	24.674	CC, ES
W14 RED DEER 24 FEDERAL #001 33955 - Red #001 -	9,300.00	9,101.00	3,378.76	3,165.81	15.866	SF
W15 FIELDS #001 08119 - F #001 - Depth Only	5,277.78	5,210.00	1,322.38	1,139.11	7.216	CC, ES
W15 FIELDS #001 08119 - F #001 - Depth Only	5,300.00	5,210.00	1,322.56	1,139.26	7.215	SF
W16 PRE-ONGARD WELL #001 20153 - Pre #001 - Inc	5,181.19	5,065.00	2,348.22	2,220.21	18.344	CC, ES
W16 PRE-ONGARD WELL #001 20153 - Pre #001 - Inc	5,200.00	5,065.00	2,348.29	2,220.24	18.339	SF
W17 SHARBRO FEDERAL #006 - #006 - Inc Only						Out of range
W18 Fields #4 - F #4 - Inc Only	5,367.79	5,250.00	376.62	249.85	2.971	CC, ES, SF

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 113H - #113H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													Offset Well Error:	0.00 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,200.00	9,131.71	9,138.12	9,127.71	33.01	32.50	-80.24	271.61	-655.12	1,602.40	1,537.69	64.71	24.763		
9,300.00	9,231.71	9,238.12	9,227.71	33.35	32.86	-80.24	271.61	-655.12	1,602.40	1,536.99	65.41	24.497		
9,400.00	9,331.71	9,338.12	9,327.71	33.69	33.21	-80.24	271.61	-655.12	1,602.40	1,536.29	66.12	24.236		
9,500.00	9,431.71	9,438.12	9,427.71	34.04	33.57	-80.24	271.61	-655.12	1,602.40	1,535.58	66.82	23.981		
9,600.00	9,531.71	9,538.12	9,527.71	34.38	33.93	-80.24	271.61	-655.12	1,602.40	1,534.88	67.52	23.731		
9,607.97	9,539.67	9,546.09	9,535.67	34.41	33.96	-80.24	271.61	-655.12	1,602.40	1,534.82	67.58	23.711	CC	
9,700.00	9,631.71	9,630.15	9,619.73	34.73	34.26	-80.24	271.78	-655.12	1,602.45	1,534.26	68.19	23.500	ES	
9,800.00	9,731.71	9,691.04	9,680.34	35.07	34.48	-80.04	277.27	-655.22	1,604.17	1,535.48	68.68	23.356		
9,900.00	9,831.71	9,750.00	9,737.89	35.42	34.69	-79.60	289.89	-655.44	1,608.43	1,539.29	69.13	23.266		
10,000.00	9,931.71	9,800.00	9,785.17	35.76	34.86	-79.04	306.09	-655.72	1,615.50	1,546.02	69.47	23.253		
10,100.00	10,031.71	9,850.00	9,830.49	36.11	35.02	-78.30	327.13	-656.09	1,625.70	1,555.94	69.75	23.307		
10,200.00	10,131.71	9,900.00	9,873.37	36.45	35.17	-77.42	352.80	-656.54	1,639.37	1,569.41	69.96	23.432		
10,300.00	10,231.71	9,939.38	9,905.11	36.80	35.28	-76.62	376.09	-656.94	1,656.86	1,586.85	70.01	23.666		
10,400.00	10,331.71	9,975.00	9,932.08	37.14	35.38	-75.83	399.34	-657.35	1,678.38	1,608.44	69.94	23.997		
10,500.00	10,431.71	10,000.00	9,949.94	37.49	35.45	-75.24	416.83	-657.65	1,704.09	1,634.41	69.69	24.453		
10,600.00	10,531.71	10,032.87	9,971.98	37.84	35.53	-74.42	441.21	-658.08	1,734.00	1,664.57	69.43	24.975		
21,000.00	12,391.88	18,303.50	10,061.13	79.27	74.32	-32.67	8,684.87	-717.66	2,764.01	2,653.27	110.74	24.960		
21,100.00	12,391.43	18,403.50	10,060.84	79.91	74.99	-32.67	8,784.86	-718.36	2,763.90	2,652.20	111.71	24.742		
21,200.00	12,390.98	18,503.50	10,060.54	80.55	75.66	-32.67	8,884.86	-719.06	2,763.80	2,651.12	112.68	24.528		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													A05_Wild Salsa - Wild Salsa Fed Com 113H - #113H - ADP - Rev1		Offset Site Error:		0.00 usft
Survey Program:													0-MWD+IFR1+SAG+MS		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					
21,300.00	12,390.53	18,603.50	10,060.25	81.20	76.34	-32.68	8,984.86	-719.76	2,763.69	2,650.04	113.65	24.317					
21,400.00	12,390.08	18,703.50	10,059.95	81.84	77.02	-32.68	9,084.85	-720.46	2,763.58	2,648.95	114.63	24.109					
21,500.00	12,389.63	18,803.50	10,059.66	82.49	77.70	-32.68	9,184.85	-721.16	2,763.47	2,647.87	115.61	23.904					
21,600.00	12,389.18	18,903.50	10,059.37	83.14	78.38	-32.68	9,284.85	-721.86	2,763.37	2,646.78	116.59	23.702					
21,700.00	12,388.73	19,003.50	10,059.07	83.79	79.06	-32.69	9,384.85	-722.56	2,763.26	2,645.69	117.57	23.502					
21,800.00	12,388.29	19,103.50	10,058.78	84.45	79.74	-32.69	9,484.84	-723.26	2,763.15	2,644.59	118.56	23.306					
21,900.00	12,387.84	19,203.50	10,058.48	85.10	80.43	-32.69	9,584.84	-723.96	2,763.05	2,643.49	119.55	23.112					
22,000.00	12,387.39	19,303.50	10,058.19	85.76	81.11	-32.69	9,684.84	-724.66	2,762.94	2,642.40	120.54	22.921					
22,100.00	12,386.94	19,403.50	10,057.90	86.42	81.80	-32.70	9,784.83	-725.36	2,762.83	2,641.29	121.54	22.732					
22,200.00	12,386.49	19,503.50	10,057.60	87.08	82.49	-32.70	9,884.83	-726.06	2,762.73	2,640.19	122.54	22.546					
22,300.00	12,386.04	19,603.50	10,057.31	87.74	83.18	-32.70	9,984.83	-726.75	2,762.62	2,639.08	123.53	22.363					
22,400.00	12,385.59	19,703.50	10,057.01	88.41	83.87	-32.70	10,084.82	-727.45	2,762.51	2,637.98	124.54	22.182					
22,500.00	12,385.14	19,803.50	10,056.72	89.08	84.57	-32.71	10,184.82	-728.15	2,762.40	2,636.86	125.54	22.004					
22,600.00	12,384.69	19,903.50	10,056.42	89.74	85.26	-32.71	10,284.82	-728.85	2,762.30	2,635.75	126.55	21.829					
22,700.00	12,384.24	20,003.50	10,056.13	90.41	85.96	-32.71	10,384.82	-729.55	2,762.19	2,634.64	127.55	21.655					
22,800.00	12,383.79	20,103.50	10,055.84	91.08	86.65	-32.71	10,484.81	-730.25	2,762.08	2,633.52	128.56	21.484					
22,900.00	12,383.34	20,203.50	10,055.54	91.76	87.35	-32.72	10,584.81	-730.95	2,761.98	2,632.40	129.57	21.316					
23,000.00	12,382.89	20,303.50	10,055.25	92.43	88.05	-32.72	10,684.81	-731.65	2,761.87	2,631.28	130.59	21.149					
23,100.00	12,382.44	20,403.50	10,054.95	93.11	88.75	-32.72	10,784.80	-732.35	2,761.76	2,630.16	131.60	20.985					
23,200.00	12,381.99	20,503.50	10,054.66	93.78	89.45	-32.72	10,884.80	-733.05	2,761.66	2,629.03	132.62	20.824					
23,300.00	12,381.54	20,603.50	10,054.36	94.46	90.16	-32.73	10,984.80	-733.75	2,761.55	2,627.91	133.64	20.664					
23,400.00	12,381.09	20,703.50	10,054.07	95.14	90.86	-32.73	11,084.79	-734.45	2,761.44	2,626.78	134.66	20.506					
23,420.60	12,381.00	20,724.09	10,054.01	95.28	91.00	-32.73	11,105.39	-734.60	2,761.42	2,626.55	134.87	20.474					
23,500.00	12,380.64	20,803.50	10,053.78	95.82	91.56	-32.73	11,184.79	-735.15	2,761.34	2,625.65	135.68	20.351					
23,510.60	12,380.60	20,814.09	10,053.75	95.89	91.64	-32.73	11,195.39	-735.23	2,761.32	2,625.53	135.79	20.335 SF					

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 214H - #214H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
8,500.00	8,431.76	8,436.16	8,427.76	30.60	29.99	-168.97	283.76	-536.52	1,484.28	1,424.48	59.80	24.821	CC	
8,600.00	8,531.71	8,536.11	8,527.71	30.95	30.35	-169.00	283.76	-536.52	1,487.32	1,426.81	60.51	24.579		
8,668.29	8,600.00	8,604.40	8,596.00	31.19	30.59	-79.01	283.76	-536.52	1,487.92	1,426.93	60.99	24.395		
8,700.00	8,631.71	8,636.10	8,627.71	31.30	30.71	-79.01	283.76	-536.52	1,487.92	1,426.71	61.22	24.306		
8,800.00	8,731.71	8,736.10	8,727.71	31.64	31.07	-79.01	283.76	-536.52	1,487.92	1,426.00	61.92	24.031		
8,900.00	8,831.71	8,836.10	8,827.71	31.98	31.42	-79.01	283.76	-536.52	1,487.92	1,425.30	62.62	23.761		
9,000.00	8,931.71	8,936.10	8,927.71	32.32	31.78	-79.01	283.76	-536.52	1,487.92	1,424.60	63.32	23.498		
9,100.00	9,031.71	9,036.10	9,027.71	32.66	32.14	-79.01	283.76	-536.52	1,487.92	1,423.90	64.03	23.240		
9,200.00	9,131.71	9,136.10	9,127.71	33.01	32.50	-79.01	283.76	-536.52	1,487.92	1,423.19	64.73	22.987		
9,300.00	9,231.71	9,236.10	9,227.71	33.35	32.86	-79.01	283.76	-536.52	1,487.92	1,422.49	65.43	22.740		
9,400.00	9,331.71	9,336.10	9,327.71	33.69	33.21	-79.01	283.76	-536.52	1,487.92	1,421.79	66.14	22.498		
9,500.00	9,431.71	9,436.10	9,427.71	34.04	33.57	-79.01	283.76	-536.52	1,487.92	1,421.08	66.84	22.261		
9,600.00	9,531.71	9,536.10	9,527.71	34.38	33.93	-79.01	283.76	-536.52	1,487.92	1,420.38	67.54	22.029		
9,700.00	9,631.71	9,636.10	9,627.71	34.73	34.29	-79.01	283.76	-536.52	1,487.92	1,419.67	68.25	21.802		
9,800.00	9,731.71	9,736.10	9,727.71	35.07	34.65	-79.01	283.76	-536.52	1,487.92	1,418.97	68.95	21.579		
9,900.00	9,831.71	9,836.10	9,827.71	35.42	35.00	-79.01	283.76	-536.52	1,487.92	1,418.27	69.66	21.361		
10,000.00	9,931.71	9,936.10	9,927.71	35.76	35.36	-79.01	283.76	-536.52	1,487.92	1,417.56	70.36	21.147		
10,100.00	10,031.71	10,036.10	10,027.71	36.11	35.72	-79.01	283.76	-536.52	1,487.92	1,416.85	71.07	20.937		
10,200.00	10,131.71	10,136.10	10,127.71	36.45	36.08	-79.01	283.76	-536.52	1,487.92	1,416.15	71.77	20.731		
10,300.00	10,231.71	10,236.10	10,227.71	36.80	36.44	-79.01	283.76	-536.52	1,487.92	1,415.44	72.48	20.529		
10,306.89	10,238.60	10,243.00	10,234.60	36.82	36.46	-79.01	283.76	-536.52	1,487.92	1,415.39	72.53	20.515		
10,400.00	10,331.71	10,331.64	10,323.24	37.14	36.78	-78.99	284.11	-536.48	1,487.96	1,414.79	73.16	20.338	ES	
10,500.00	10,431.71	10,410.66	10,401.59	37.49	37.06	-78.63	293.57	-535.40	1,488.96	1,415.20	73.75	20.188		
10,600.00	10,531.71	10,484.66	10,472.61	37.84	37.32	-77.84	313.96	-533.08	1,491.63	1,417.33	74.29	20.077		
10,700.00	10,631.71	10,550.00	10,532.04	38.18	37.52	-76.81	340.83	-530.02	1,496.58	1,421.84	74.74	20.024		
10,800.00	10,731.71	10,608.69	10,581.83	38.53	37.69	-75.63	371.64	-526.51	1,504.54	1,429.47	75.07	20.041		
10,900.00	10,831.71	10,657.94	10,620.41	38.88	37.84	-74.48	402.01	-523.05	1,516.18	1,440.92	75.25	20.148		
11,000.00	10,931.71	10,700.00	10,650.72	39.23	37.96	-73.38	430.96	-519.75	1,532.03	1,456.75	75.28	20.352		
11,100.00	11,031.71	10,734.91	10,673.86	39.57	38.05	-72.41	456.93	-516.79	1,552.46	1,477.33	75.13	20.664		
11,200.00	11,131.71	10,764.81	10,692.10	39.92	38.12	-71.53	480.45	-514.11	1,577.66	1,502.83	74.83	21.084		
11,300.00	11,231.71	10,790.29	10,706.46	40.27	38.18	-70.75	501.36	-511.73	1,607.68	1,533.30	74.38	21.614		
11,400.00	11,331.71	10,813.40	10,718.50	40.62	38.23	-70.03	520.96	-509.49	1,642.47	1,568.64	73.83	22.248		
11,500.00	11,431.71	10,825.00	10,724.18	40.97	38.26	-69.66	531.02	-508.38	1,681.93	1,608.84	73.09	23.010		
11,600.00	11,531.71	10,840.88	10,731.56	41.32	38.29	-69.15	545.00	-506.94	1,725.90	1,653.54	72.35	23.854		
11,700.00	11,631.71	10,850.00	10,735.60	41.66	38.31	-68.86	553.14	-506.16	1,774.10	1,702.58	71.52	24.806		
17,200.00	12,408.96	15,203.49	10,799.23	57.30	52.57	-39.54	4,898.94	-526.41	2,082.17	1,998.25	83.92	24.811		
17,300.00	12,408.51	15,303.49	10,799.60	57.80	53.09	-39.56	4,998.93	-527.10	2,081.57	1,996.84	84.73	24.567		
17,400.00	12,408.06	15,403.48	10,799.96	58.30	53.62	-39.57	5,098.92	-527.80	2,080.97	1,995.42	85.55	24.325		
17,500.00	12,407.61	15,503.48	10,800.33	58.81	54.16	-39.59	5,198.92	-528.49	2,080.36	1,993.99	86.38	24.085		
17,600.00	12,407.17	15,603.48	10,800.70	59.32	54.71	-39.60	5,298.91	-529.19	2,079.76	1,992.55	87.21	23.846		
17,700.00	12,406.72	15,703.47	10,801.06	59.84	55.25	-39.62	5,398.90	-529.89	2,079.16	1,991.10	88.06	23.611		
17,800.00	12,406.27	15,803.47	10,801.43	60.37	55.81	-39.63	5,498.90	-530.58	2,078.55	1,989.64	88.91	23.377		
17,900.00	12,405.82	15,903.47	10,801.80	60.90	56.37	-39.65	5,598.89	-531.28	2,077.95	1,988.17	89.78	23.146		
18,000.00	12,405.37	16,003.46	10,802.16	61.43	56.93	-39.66	5,698.88	-531.97	2,077.35	1,986.70	90.65	22.917		
18,100.00	12,404.92	16,103.46	10,802.53	61.97	57.50	-39.68	5,798.88	-532.67	2,076.74	1,985.22	91.53	22.690		
18,200.00	12,404.47	16,203.46	10,802.90	62.52	58.07	-39.69	5,898.87	-533.36	2,076.14	1,983.73	92.41	22.466		
18,300.00	12,404.02	16,303.45	10,803.26	63.07	58.65	-39.71	5,998.87	-534.06	2,075.54	1,982.23	93.31	22.244		
18,400.00	12,403.57	16,403.45	10,803.63	63.62	59.23	-39.72	6,098.86	-534.76	2,074.94	1,980.73	94.21	22.025		
18,500.00	12,403.12	16,503.45	10,804.00	64.18	59.81	-39.74	6,198.85	-535.45	2,074.34	1,979.22	95.12	21.808		
18,600.00	12,402.67	16,603.44	10,804.36	64.74	60.40	-39.75	6,298.85	-536.15	2,073.73	1,977.70	96.03	21.594		
18,700.00	12,402.22	16,703.44	10,804.73	65.31	61.00	-39.77	6,398.84	-536.84	2,073.13	1,976.18	96.96	21.382		
18,800.00	12,401.77	16,803.44	10,805.10	65.88	61.59	-39.78	6,498.83	-537.54	2,072.53	1,974.65	97.88	21.173		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 214H - #214H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
18,900.00	12,401.32	16,903.43	10,805.46	66.45	62.20	-39.80	6,598.83	-538.23	2,071.93	1,973.11	98.82	20.967		
19,000.00	12,400.87	17,003.43	10,805.83	67.03	62.80	-39.81	6,698.82	-538.93	2,071.33	1,971.57	99.76	20.763		
19,100.00	12,400.42	17,103.43	10,806.20	67.61	63.41	-39.83	6,798.81	-539.63	2,070.73	1,970.02	100.71	20.562		
19,200.00	12,399.97	17,203.42	10,806.56	68.20	64.02	-39.85	6,898.81	-540.32	2,070.12	1,968.46	101.66	20.363		
19,300.00	12,399.52	17,303.42	10,806.93	68.79	64.63	-39.86	6,998.80	-541.02	2,069.52	1,966.90	102.62	20.167		
19,400.00	12,399.07	17,403.42	10,807.30	69.38	65.25	-39.88	7,098.79	-541.71	2,068.92	1,965.34	103.58	19.973		
19,500.00	12,398.62	17,503.41	10,807.66	69.98	65.87	-39.89	7,198.79	-542.41	2,068.32	1,963.77	104.56	19.782		
19,600.00	12,398.17	17,603.41	10,808.03	70.58	66.50	-39.91	7,298.78	-543.10	2,067.72	1,962.19	105.53	19.594		
19,700.00	12,397.73	17,703.41	10,808.40	71.18	67.12	-39.92	7,398.78	-543.80	2,067.12	1,960.61	106.51	19.408		
19,800.00	12,397.28	17,803.40	10,808.76	71.78	67.75	-39.94	7,498.77	-544.49	2,066.52	1,959.02	107.50	19.224		
19,900.00	12,396.83	17,903.40	10,809.13	72.39	68.39	-39.95	7,598.76	-545.19	2,065.92	1,957.43	108.49	19.043		
20,000.00	12,396.38	18,003.40	10,809.49	73.01	69.02	-39.97	7,698.76	-545.89	2,065.32	1,955.84	109.48	18.864		
20,100.00	12,395.93	18,103.39	10,809.86	73.62	69.66	-39.98	7,798.75	-546.58	2,064.72	1,954.24	110.48	18.688		
20,200.00	12,395.48	18,203.39	10,810.23	74.24	70.30	-40.00	7,898.74	-547.28	2,064.12	1,952.63	111.49	18.514		
20,300.00	12,395.03	18,303.39	10,810.59	74.86	70.94	-40.01	7,998.74	-547.97	2,063.52	1,951.03	112.50	18.343		
20,400.00	12,394.58	18,403.38	10,810.96	75.48	71.59	-40.03	8,098.73	-548.67	2,062.92	1,949.41	113.51	18.174		
20,500.00	12,394.13	18,503.38	10,811.33	76.11	72.24	-40.04	8,198.72	-549.36	2,062.32	1,947.80	114.53	18.007		
20,600.00	12,393.68	18,603.38	10,811.69	76.73	72.89	-40.06	8,298.72	-550.06	2,061.72	1,946.17	115.55	17.843		
20,700.00	12,393.23	18,703.37	10,812.06	77.36	73.54	-40.08	8,398.71	-550.76	2,061.13	1,944.55	116.58	17.681		
20,800.00	12,392.78	18,803.37	10,812.43	78.00	74.19	-40.09	8,498.70	-551.45	2,060.53	1,942.92	117.61	17.521		
20,900.00	12,392.33	18,903.37	10,812.79	78.63	74.85	-40.11	8,598.70	-552.15	2,059.93	1,941.29	118.64	17.363		
21,000.00	12,391.88	19,003.36	10,813.16	79.27	75.51	-40.12	8,698.69	-552.84	2,059.33	1,939.65	119.68	17.207		
21,100.00	12,391.43	19,103.36	10,813.53	79.91	76.17	-40.14	8,798.69	-553.54	2,058.73	1,938.01	120.72	17.054		
21,200.00	12,390.98	19,203.36	10,813.89	80.55	76.83	-40.15	8,898.68	-554.23	2,058.13	1,936.37	121.76	16.903		
21,300.00	12,390.53	19,303.35	10,814.26	81.20	77.50	-40.17	8,998.67	-554.93	2,057.54	1,934.72	122.81	16.754		
21,400.00	12,390.08	19,403.35	10,814.63	81.84	78.16	-40.18	9,098.67	-555.63	2,056.94	1,933.07	123.86	16.606		
21,500.00	12,389.63	19,503.35	10,814.99	82.49	78.83	-40.20	9,198.66	-556.32	2,056.34	1,931.42	124.92	16.461		
21,600.00	12,389.18	19,603.34	10,815.36	83.14	79.50	-40.22	9,298.65	-557.02	2,055.74	1,929.77	125.98	16.318		
21,700.00	12,388.73	19,703.34	10,815.73	83.79	80.17	-40.23	9,398.65	-557.71	2,055.15	1,928.11	127.04	16.177		
21,800.00	12,388.29	19,803.34	10,816.09	84.45	80.85	-40.25	9,498.64	-558.41	2,054.55	1,926.44	128.10	16.038		
21,900.00	12,387.84	19,903.33	10,816.46	85.10	81.52	-40.26	9,598.63	-559.10	2,053.95	1,924.78	129.17	15.901		
22,000.00	12,387.39	20,003.33	10,816.83	85.76	82.20	-40.28	9,698.63	-559.80	2,053.35	1,923.11	130.24	15.766		
22,100.00	12,386.94	20,103.33	10,817.19	86.42	82.88	-40.29	9,798.62	-560.49	2,052.76	1,921.44	131.32	15.632		
22,200.00	12,386.49	20,203.32	10,817.56	87.08	83.56	-40.31	9,898.61	-561.19	2,052.16	1,919.77	132.39	15.500		
22,300.00	12,386.04	20,303.32	10,817.93	87.74	84.24	-40.32	9,998.61	-561.89	2,051.56	1,918.09	133.47	15.371		
22,400.00	12,385.59	20,403.32	10,818.29	88.41	84.92	-40.34	10,098.60	-562.58	2,050.97	1,916.41	134.56	15.243		
22,500.00	12,385.14	20,503.31	10,818.66	89.08	85.60	-40.36	10,198.60	-563.28	2,050.37	1,914.73	135.64	15.116		
22,600.00	12,384.69	20,603.31	10,819.02	89.74	86.29	-40.37	10,298.59	-563.97	2,049.78	1,913.05	136.73	14.992		
22,700.00	12,384.24	20,703.31	10,819.39	90.41	86.98	-40.39	10,398.58	-564.67	2,049.18	1,911.36	137.82	14.869		
22,800.00	12,383.79	20,803.30	10,819.76	91.08	87.66	-40.40	10,498.58	-565.36	2,048.58	1,909.67	138.91	14.747		
22,900.00	12,383.34	20,903.30	10,820.12	91.76	88.35	-40.42	10,598.57	-566.06	2,047.99	1,907.98	140.01	14.628		
23,000.00	12,382.89	21,003.30	10,820.49	92.43	89.04	-40.43	10,698.56	-566.76	2,047.39	1,906.29	141.11	14.510		
23,100.00	12,382.44	21,103.29	10,820.86	93.11	89.74	-40.45	10,798.56	-567.45	2,046.80	1,904.59	142.21	14.393		
23,200.00	12,381.99	21,203.29	10,821.22	93.78	90.43	-40.47	10,898.55	-568.15	2,046.20	1,902.89	143.31	14.278		
23,300.00	12,381.54	21,303.29	10,821.59	94.46	91.12	-40.48	10,998.54	-568.84	2,045.61	1,901.19	144.41	14.165		
23,400.00	12,381.09	21,403.28	10,821.96	95.14	91.82	-40.50	11,098.54	-569.54	2,045.01	1,899.49	145.52	14.053		
23,420.60	12,381.00	21,423.88	10,822.03	95.28	91.96	-40.50	11,119.13	-569.68	2,044.89	1,899.14	145.75	14.030		
23,500.00	12,380.64	21,503.28	10,822.32	95.82	92.51	-40.51	11,198.53	-570.23	2,044.42	1,897.79	146.63	13.943		
23,510.60	12,380.60	21,505.04	10,822.33	95.89	92.53	-40.51	11,200.29	-570.25	2,044.37	1,897.65	146.73	13.933 SF		

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 216H - #216H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
2,582.11	2,579.86	2,580.86	2,580.86	8.96	9.03	-0.67	5.03	479.95	435.71	417.73	17.98	24.239		
2,600.00	2,597.54	2,598.54	2,598.54	9.03	9.09	-0.67	5.03	479.95	432.99	414.89	18.10	23.922		
2,700.00	2,696.38	2,697.38	2,697.38	9.38	9.45	-0.70	5.03	479.95	417.81	399.02	18.80	22.229		
2,800.00	2,795.22	2,791.99	2,791.99	9.73	9.78	-0.73	5.10	480.17	402.88	383.40	19.48	20.687		
2,900.00	2,894.07	2,882.18	2,882.18	10.09	10.10	-0.85	5.73	482.13	389.86	369.73	20.13	19.369		
3,000.00	2,992.91	2,972.86	2,972.73	10.44	10.41	-1.06	7.01	486.14	379.09	358.31	20.78	18.246		
3,100.00	3,091.75	3,063.90	3,063.55	10.80	10.73	-1.39	8.96	492.23	370.60	349.18	21.42	17.303		
3,200.00	3,190.59	3,162.58	3,161.87	11.16	11.07	-1.82	11.51	500.20	363.53	341.42	22.11	16.444		
3,300.00	3,289.43	3,262.29	3,261.22	11.52	11.42	-2.27	14.09	508.27	356.50	333.70	22.80	15.634		
3,400.00	3,388.27	3,362.00	3,360.57	11.88	11.77	-2.74	16.67	516.34	349.49	325.99	23.50	14.871		
3,500.00	3,487.11	3,461.71	3,459.92	12.24	12.12	-3.23	19.26	524.42	342.51	318.31	24.20	14.153		
3,600.00	3,585.95	3,561.42	3,559.27	12.60	12.47	-3.74	21.84	532.49	335.55	310.65	24.90	13.476		
3,700.00	3,684.79	3,661.14	3,658.62	12.96	12.83	-4.27	24.42	540.56	328.62	303.02	25.60	12.836		
3,800.00	3,783.63	3,760.85	3,757.98	13.32	13.18	-4.82	27.01	548.63	321.72	295.42	26.31	12.230		
3,900.00	3,882.48	3,860.56	3,857.33	13.68	13.53	-5.40	29.59	556.71	314.86	287.85	27.01	11.657		
4,000.00	3,981.32	3,960.27	3,956.68	14.05	13.88	-6.01	32.17	564.78	308.02	280.31	27.71	11.114		
4,100.00	4,080.16	4,059.99	4,056.03	14.41	14.24	-6.64	34.75	572.85	301.22	272.80	28.42	10.599		
4,200.00	4,179.00	4,159.70	4,155.38	14.78	14.59	-7.30	37.34	580.92	294.46	265.33	29.13	10.109		
4,300.00	4,277.84	4,259.41	4,254.73	15.14	14.95	-7.99	39.92	588.99	287.74	257.90	29.84	9.644		
4,400.00	4,376.68	4,359.12	4,354.08	15.51	15.30	-8.71	42.50	597.07	281.06	250.52	30.54	9.202		
4,500.00	4,475.52	4,458.84	4,453.44	15.87	15.66	-9.47	45.08	605.14	274.43	243.18	31.25	8.781		
4,600.00	4,574.36	4,558.55	4,552.79	16.24	16.01	-10.27	47.67	613.21	267.85	235.89	31.96	8.380		
4,700.00	4,673.20	4,658.26	4,652.14	16.60	16.37	-11.11	50.25	621.28	261.33	228.65	32.68	7.997		
4,800.00	4,772.04	4,757.97	4,751.49	16.97	16.72	-11.98	52.83	629.36	254.86	221.47	33.39	7.633		
4,900.00	4,870.89	4,857.68	4,850.84	17.34	17.08	-12.91	55.42	637.43	248.46	214.35	34.10	7.285		
5,000.00	4,969.73	4,957.40	4,950.19	17.70	17.43	-13.88	58.00	645.50	242.12	207.30	34.82	6.954		
5,100.00	5,068.57	5,057.11	5,049.54	18.07	17.79	-14.91	60.58	653.57	235.86	200.32	35.53	6.637		
5,200.00	5,167.41	5,156.82	5,148.90	18.44	18.15	-15.99	63.16	661.64	229.67	193.42	36.25	6.336		
5,300.00	5,266.25	5,256.53	5,248.25	18.81	18.50	-17.13	65.75	669.72	223.58	186.61	36.97	6.047		
5,400.00	5,365.09	5,356.25	5,347.60	19.17	18.86	-18.33	68.33	677.79	217.57	179.88	37.69	5.773		
5,500.00	5,463.93	5,455.96	5,446.95	19.54	19.22	-19.60	70.91	685.86	211.67	173.26	38.41	5.511		
5,600.00	5,562.77	5,555.67	5,546.30	19.91	19.57	-20.94	73.49	693.93	205.88	166.74	39.14	5.261		
5,700.00	5,661.61	5,655.38	5,645.65	20.28	19.93	-22.36	76.08	702.01	200.21	160.35	39.86	5.023		
5,800.00	5,760.45	5,755.09	5,745.00	20.65	20.29	-23.86	78.66	710.08	194.66	154.08	40.59	4.796		
5,900.00	5,859.30	5,854.81	5,844.36	21.02	20.65	-25.45	81.24	718.15	189.26	147.94	41.32	4.581		
6,000.00	5,958.14	5,954.52	5,943.71	21.38	21.00	-27.13	83.83	726.22	184.01	141.97	42.05	4.376		
6,100.00	6,056.98	6,054.23	6,043.06	21.75	21.36	-28.91	86.41	734.29	178.93	136.15	42.78	4.183		
6,200.00	6,155.82	6,153.94	6,142.41	22.12	21.72	-30.78	88.99	742.37	174.03	130.52	43.51	3.999		
6,300.00	6,254.66	6,253.66	6,241.76	22.49	22.08	-32.77	91.57	750.44	169.33	125.08	44.25	3.826		
6,400.00	6,353.50	6,353.37	6,341.11	22.86	22.44	-34.86	94.16	758.51	164.84	119.85	44.99	3.664		
6,500.00	6,452.34	6,453.08	6,440.46	23.23	22.80	-37.07	96.74	766.58	160.59	114.85	45.74	3.511		
6,600.00	6,551.18	6,552.79	6,539.82	23.60	23.15	-39.39	99.32	774.66	156.59	110.10	46.48	3.369		
6,700.00	6,650.02	6,652.51	6,639.17	23.97	23.51	-41.83	101.90	782.73	152.85	105.63	47.23	3.236		
6,800.00	6,748.86	6,752.22	6,738.52	24.34	23.87	-44.39	104.49	790.80	149.41	101.44	47.98	3.114		
6,900.00	6,847.71	6,851.93	6,837.87	24.71	24.23	-47.06	107.07	798.87	146.29	97.56	48.73	3.002		
7,000.00	6,946.55	6,951.64	6,937.22	25.08	24.59	-49.84	109.65	806.94	143.49	94.01	49.48	2.900		
7,100.00	7,045.39	7,051.35	7,036.57	25.45	24.95	-52.72	112.24	815.02	141.05	90.81	50.24	2.808		
7,200.00	7,144.23	7,151.07	7,135.92	25.82	25.31	-55.70	114.82	823.09	138.98	87.99	50.99	2.725		
7,300.00	7,243.07	7,250.78	7,235.28	26.19	25.66	-58.76	117.40	831.16	137.30	85.55	51.75	2.653		
7,400.00	7,341.91	7,350.49	7,334.63	26.56	26.02	-61.88	119.98	839.23	136.01	83.51	52.50	2.591		
7,500.00	7,440.75	7,450.20	7,433.98	26.93	26.38	-65.06	122.57	847.31	135.15	81.89	53.25	2.538		
7,600.00	7,539.59	7,549.92	7,533.33	27.30	26.74	-68.26	125.15	855.38	134.70	80.70	54.00	2.494		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
7,654.73	7,593.69	7,604.49	7,587.70	27.50	26.94	-70.02	126.56	859.80	134.64	80.23	54.41	2.475 CC		
7,700.00	7,638.43	7,649.63	7,632.68	27.67	27.10	-71.48	127.73	863.45	134.68	79.93	54.75	2.460		
7,800.00	7,737.27	7,749.34	7,732.03	28.04	27.46	-74.68	130.31	871.52	135.09	79.60	55.49	2.435		
7,900.00	7,836.12	7,849.05	7,831.38	28.41	27.82	-77.86	132.90	879.59	135.91	79.69	56.22	2.417		
8,000.00	7,934.96	7,948.77	7,930.74	28.78	28.18	-80.99	135.48	887.67	137.16	80.20	56.96	2.408		
8,086.18	8,020.14	8,034.70	8,016.36	29.10	28.49	-83.64	137.71	894.62	138.55	80.97	57.58	2.406		
8,100.00	8,033.80	8,048.48	8,030.09	29.15	28.54	-84.05	138.06	895.74	138.81	81.12	57.68	2.406		
8,200.00	8,132.88	8,148.29	8,129.54	29.52	28.90	-86.39	140.65	903.82	140.94	82.53	58.41	2.413		
8,300.00	8,232.28	8,248.22	8,229.10	29.88	29.26	-87.63	143.24	911.91	143.37	84.25	59.13	2.425		
8,400.00	8,331.93	8,348.88	8,329.44	30.24	29.62	-87.94	145.73	919.69	145.82	85.97	59.85	2.436		
8,500.00	8,431.76	8,450.18	8,430.56	30.60	29.98	-88.08	147.50	925.25	147.57	87.00	60.57	2.436		
8,600.00	8,531.71	8,551.49	8,531.82	30.95	30.34	-88.16	148.46	928.25	148.51	87.23	61.29	2.423		
8,668.29	8,600.00	8,620.67	8,601.00	31.19	30.59	1.82	148.65	928.83	148.70	86.93	61.77	2.407		
8,700.00	8,631.71	8,652.38	8,632.71	31.30	30.70	1.82	148.65	928.83	148.70	86.71	61.99	2.399		
8,800.00	8,731.71	8,752.38	8,732.71	31.64	31.05	1.82	148.65	928.83	148.70	86.02	62.68	2.372		
8,900.00	8,831.71	8,852.38	8,832.71	31.98	31.40	1.82	148.65	928.83	148.70	85.32	63.37	2.346		
9,000.00	8,931.71	8,952.38	8,932.71	32.32	31.76	1.82	148.65	928.83	148.70	84.63	64.07	2.321		
9,100.00	9,031.71	9,052.38	9,032.71	32.66	32.11	1.82	148.65	928.83	148.70	83.93	64.76	2.296		
9,200.00	9,131.71	9,152.38	9,132.71	33.01	32.46	1.82	148.65	928.83	148.70	83.24	65.46	2.272		
9,300.00	9,231.71	9,252.38	9,232.71	33.35	32.81	1.82	148.65	928.83	148.70	82.54	66.15	2.248		
9,400.00	9,331.71	9,352.38	9,332.71	33.69	33.16	1.82	148.65	928.83	148.70	81.85	66.85	2.224		
9,500.00	9,431.71	9,452.38	9,432.71	34.04	33.52	1.82	148.65	928.83	148.70	81.15	67.54	2.201		
9,600.00	9,531.71	9,552.38	9,532.71	34.38	33.87	1.82	148.65	928.83	148.70	80.45	68.24	2.179		
9,700.00	9,631.71	9,652.38	9,632.71	34.73	34.22	1.82	148.65	928.83	148.70	79.76	68.94	2.157		
9,800.00	9,731.71	9,752.38	9,732.71	35.07	34.58	1.82	148.65	928.83	148.70	79.06	69.64	2.135		
9,900.00	9,831.71	9,852.38	9,832.71	35.42	34.93	1.82	148.65	928.83	148.70	78.36	70.33	2.114		
10,000.00	9,931.71	9,952.38	9,932.71	35.76	35.28	1.82	148.65	928.83	148.70	77.66	71.03	2.093		
10,100.00	10,031.71	10,052.38	10,032.71	36.11	35.63	1.82	148.65	928.83	148.70	76.96	71.73	2.073		
10,200.00	10,131.71	10,152.38	10,132.71	36.45	35.99	1.82	148.65	928.83	148.70	76.26	72.43	2.053		
10,300.00	10,231.71	10,252.38	10,232.71	36.80	36.34	1.82	148.65	928.83	148.70	75.56	73.13	2.033		
10,309.12	10,240.82	10,261.50	10,241.82	36.83	36.37	1.82	148.65	928.83	148.70	75.50	73.19	2.032		
10,400.00	10,331.71	10,348.15	10,328.48	37.14	36.68	1.80	148.85	928.77	148.96	75.15	73.81	2.018 ES, SF		
10,500.00	10,431.71	10,445.00	10,404.78	37.49	36.95	0.86	156.98	926.44	159.43	85.71	73.72	2.163		
10,600.00	10,531.71	10,495.91	10,473.14	37.84	37.18	-0.91	174.81	921.33	184.67	112.28	72.39	2.551		
10,700.00	10,631.71	10,560.78	10,532.67	38.18	37.38	-2.83	199.49	914.25	223.36	153.09	70.28	3.178		
10,800.00	10,731.71	10,617.74	10,581.64	38.53	37.54	-4.49	227.38	906.25	273.55	205.79	67.76	4.037		
10,900.00	10,831.71	10,666.81	10,620.82	38.88	37.66	-5.80	255.76	898.12	333.12	267.92	65.20	5.109		
11,000.00	10,931.71	10,708.70	10,651.71	39.23	37.76	-6.81	282.93	890.33	400.17	337.35	62.82	6.370		
11,100.00	11,031.71	10,750.00	10,679.63	39.57	37.83	-7.69	312.17	881.94	473.16	412.03	61.12	7.741		
11,200.00	11,131.71	10,775.00	10,695.21	39.92	37.88	-8.18	330.96	876.55	550.62	491.66	58.95	9.340		
11,300.00	11,231.71	10,800.00	10,709.75	40.27	37.92	-8.62	350.50	870.95	631.78	574.36	57.41	11.004		
11,400.00	11,331.71	10,825.00	10,723.21	40.62	37.96	-9.04	370.75	865.14	715.82	659.50	56.33	12.708		
11,500.00	11,431.71	10,843.14	10,732.28	40.97	37.98	-9.31	385.86	860.86	802.16	746.88	55.28	14.510		
11,600.00	11,531.71	10,861.31	10,740.83	41.32	38.01	-9.52	401.36	856.77	890.32	835.77	54.55	16.321		
11,700.00	11,631.71	10,875.00	10,746.92	41.66	38.03	-9.65	413.27	853.85	979.96	926.06	53.90	18.181		
11,800.00	11,731.71	10,900.00	10,757.23	42.01	38.06	-9.80	435.50	848.90	1,070.91	1,017.14	53.77	19.916		
11,900.00	11,831.71	10,900.00	10,757.23	42.36	38.06	-9.80	435.50	848.90	1,162.73	1,109.64	53.09	21.900		
12,000.00	11,931.71	10,915.88	10,763.22	42.71	38.09	-9.85	449.92	846.02	1,255.47	1,202.50	52.97	23.702		
12,012.62	11,944.33	10,925.00	10,766.46	42.76	38.10	-9.86	458.30	844.45	1,267.31	1,214.19	53.12	23.857		
12,025.00	11,956.71	10,925.00	10,766.46	42.80	38.10	5.01	458.30	844.45	1,278.78	1,225.71	53.06	24.099		
12,050.00	11,981.67	10,925.00	10,766.46	42.89	38.10	4.46	458.30	844.45	1,301.60	1,248.66	52.93	24.589		
17,000.00	12,409.86	15,177.58	10,808.68	56.32	51.75	0.02	4,705.86	800.93	1,602.19	1,537.71	64.48	24.849		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 216H - #216H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
17,100.00	12,409.41	15,277.57	10,808.90	56.81	52.27	0.02	4,805.85	800.27	1,601.51	1,536.44	65.08	24.610		
17,200.00	12,408.96	15,377.57	10,809.13	57.30	52.80	0.02	4,905.85	799.60	1,600.84	1,535.16	65.68	24.373		
17,300.00	12,408.51	15,477.57	10,809.35	57.80	53.33	0.02	5,005.84	798.94	1,600.17	1,533.88	66.29	24.138		
17,400.00	12,408.06	15,577.57	10,809.57	58.30	53.87	0.02	5,105.84	798.28	1,599.50	1,532.59	66.91	23.905		
17,500.00	12,407.61	15,677.57	10,809.80	58.81	54.42	0.02	5,205.83	797.61	1,598.82	1,531.29	67.54	23.674		
17,600.00	12,407.17	15,777.56	10,810.02	59.32	54.97	0.02	5,305.83	796.95	1,598.15	1,529.98	68.17	23.445		
17,700.00	12,406.72	15,877.56	10,810.24	59.84	55.52	0.02	5,405.82	796.29	1,597.48	1,528.67	68.80	23.218		
17,800.00	12,406.27	15,977.56	10,810.46	60.37	56.08	0.02	5,505.82	795.62	1,596.81	1,527.36	69.45	22.993		
17,900.00	12,405.82	16,077.56	10,810.69	60.90	56.65	0.02	5,605.81	794.96	1,596.13	1,526.04	70.10	22.770		
18,000.00	12,405.37	16,177.55	10,810.91	61.43	57.22	0.02	5,705.81	794.29	1,595.46	1,524.71	70.75	22.550		
18,100.00	12,404.92	16,277.55	10,811.13	61.97	57.79	0.02	5,805.81	793.63	1,594.79	1,523.37	71.41	22.332		
18,200.00	12,404.47	16,377.55	10,811.36	62.52	58.37	0.01	5,905.80	792.97	1,594.11	1,522.04	72.08	22.116		
18,300.00	12,404.02	16,477.55	10,811.58	63.07	58.95	0.01	6,005.80	792.30	1,593.44	1,520.69	72.75	21.903		
18,400.00	12,403.57	16,577.55	10,811.80	63.62	59.54	0.01	6,105.79	791.64	1,592.77	1,519.34	73.43	21.692		
18,500.00	12,403.12	16,677.54	10,812.03	64.18	60.13	0.01	6,205.79	790.98	1,592.10	1,517.99	74.11	21.484		
18,600.00	12,402.67	16,777.54	10,812.25	64.74	60.72	0.01	6,305.78	790.31	1,591.42	1,516.63	74.79	21.277		
18,700.00	12,402.22	16,877.54	10,812.47	65.31	61.32	0.01	6,405.78	789.65	1,590.75	1,515.27	75.48	21.074		
18,800.00	12,401.77	16,977.54	10,812.70	65.88	61.92	0.01	6,505.77	788.99	1,590.08	1,513.90	76.18	20.873		
18,900.00	12,401.32	17,077.53	10,812.92	66.45	62.53	0.01	6,605.77	788.32	1,589.41	1,512.53	76.88	20.674		
19,000.00	12,400.87	17,177.53	10,813.14	67.03	63.14	0.01	6,705.76	787.66	1,588.73	1,511.15	77.58	20.478		
19,100.00	12,400.42	17,277.53	10,813.37	67.61	63.75	0.01	6,805.76	786.99	1,588.06	1,509.77	78.29	20.284		
19,200.00	12,399.97	17,377.53	10,813.59	68.20	64.37	0.01	6,905.75	786.33	1,587.39	1,508.38	79.00	20.093		
19,300.00	12,399.52	17,477.52	10,813.81	68.79	64.99	0.01	7,005.75	785.67	1,586.72	1,507.00	79.72	19.904		
19,400.00	12,399.07	17,577.52	10,814.04	69.38	65.61	0.01	7,105.74	785.00	1,586.04	1,505.60	80.44	19.717		
19,500.00	12,398.62	17,677.52	10,814.26	69.98	66.23	0.01	7,205.74	784.34	1,585.37	1,504.21	81.16	19.533		
19,600.00	12,398.17	17,777.52	10,814.48	70.58	66.86	0.01	7,305.73	783.68	1,584.70	1,502.81	81.89	19.351		
19,700.00	12,397.73	17,877.52	10,814.70	71.18	67.49	0.01	7,405.73	783.01	1,584.02	1,501.40	82.62	19.172		
19,800.00	12,397.28	17,977.51	10,814.93	71.78	68.13	0.01	7,505.73	782.35	1,583.35	1,499.99	83.36	18.995		
19,900.00	12,396.83	18,077.51	10,815.15	72.39	68.76	0.01	7,605.72	781.68	1,582.68	1,498.58	84.10	18.820		
20,000.00	12,396.38	18,177.51	10,815.37	73.01	69.40	0.01	7,705.72	781.02	1,582.01	1,497.17	84.84	18.648		
20,100.00	12,395.93	18,277.51	10,815.60	73.62	70.04	0.01	7,805.71	780.36	1,581.33	1,495.75	85.58	18.478		
20,200.00	12,395.48	18,377.50	10,815.82	74.24	70.69	0.01	7,905.71	779.69	1,580.66	1,494.33	86.33	18.310		
20,300.00	12,395.03	18,477.50	10,816.04	74.86	71.33	0.01	8,005.70	779.03	1,579.99	1,492.91	87.08	18.144		
20,400.00	12,394.58	18,577.50	10,816.27	75.48	71.98	0.01	8,105.70	778.37	1,579.32	1,491.48	87.83	17.981		
20,500.00	12,394.13	18,677.50	10,816.49	76.11	72.63	0.01	8,205.69	777.70	1,578.64	1,490.05	88.59	17.820		
20,600.00	12,393.68	18,777.50	10,816.71	76.73	73.29	0.01	8,305.69	777.04	1,577.97	1,488.62	89.35	17.661		
20,700.00	12,393.23	18,877.49	10,816.94	77.36	73.94	0.01	8,405.68	776.37	1,577.30	1,487.19	90.11	17.504		
20,800.00	12,392.78	18,977.49	10,817.16	78.00	74.60	0.01	8,505.68	775.71	1,576.62	1,485.75	90.87	17.349		
20,900.00	12,392.33	19,077.49	10,817.38	78.63	75.26	0.01	8,605.67	775.05	1,575.95	1,484.31	91.64	17.197		
21,000.00	12,391.88	19,177.49	10,817.61	79.27	75.92	0.01	8,705.67	774.38	1,575.28	1,482.87	92.41	17.046		
21,100.00	12,391.43	19,277.48	10,817.83	79.91	76.59	0.01	8,805.66	773.72	1,574.61	1,481.42	93.18	16.898		
21,200.00	12,390.98	19,377.48	10,818.05	80.55	77.25	0.01	8,905.66	773.06	1,573.93	1,479.97	93.96	16.751		
21,300.00	12,390.53	19,477.48	10,818.28	81.20	77.92	0.01	9,005.65	772.39	1,573.26	1,478.52	94.74	16.607		
21,400.00	12,390.08	19,577.48	10,818.50	81.84	78.59	0.01	9,105.65	771.73	1,572.59	1,477.07	95.52	16.464		
21,500.00	12,389.63	19,677.48	10,818.72	82.49	79.26	0.01	9,205.64	771.06	1,571.92	1,475.62	96.30	16.324		
21,600.00	12,389.18	19,777.47	10,818.95	83.14	79.93	0.01	9,305.64	770.40	1,571.24	1,474.16	97.08	16.185		
21,700.00	12,388.73	19,877.47	10,819.17	83.79	80.61	0.00	9,405.64	769.74	1,570.57	1,472.70	97.87	16.048		
21,800.00	12,388.29	19,977.47	10,819.39	84.45	81.28	0.00	9,505.63	769.07	1,569.90	1,471.24	98.66	15.913		
21,900.00	12,387.84	20,077.47	10,819.61	85.10	81.96	0.00	9,605.63	768.41	1,569.23	1,469.78	99.45	15.780		
22,000.00	12,387.39	20,177.46	10,819.84	85.76	82.64	0.00	9,705.62	767.75	1,568.55	1,468.31	100.24	15.648		
22,100.00	12,386.94	20,277.46	10,820.06	86.42	83.32	0.00	9,805.62	767.08	1,567.88	1,466.85	101.03	15.519		
22,200.00	12,386.49	20,377.46	10,820.28	87.08	84.00	0.00	9,905.61	766.42	1,567.21	1,465.38	101.83	15.391		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 216H - #216H - ADP - Rev1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS												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	
22,300.00	12,386.04	20,477.46	10,820.51	87.74	84.68	0.00	10,005.61	765.75	1,566.53	1,463.91	102.63	15.265	
22,400.00	12,385.59	20,577.45	10,820.73	88.41	85.37	0.00	10,105.60	765.09	1,565.86	1,462.44	103.43	15.140	
22,500.00	12,385.14	20,677.45	10,820.95	89.08	86.06	0.00	10,205.60	764.43	1,565.19	1,460.96	104.23	15.017	
22,600.00	12,384.69	20,777.45	10,821.18	89.74	86.74	0.00	10,305.59	763.76	1,564.52	1,459.49	105.03	14.896	
22,700.00	12,384.24	20,877.45	10,821.40	90.41	87.43	0.00	10,405.59	763.10	1,563.84	1,458.01	105.83	14.776	
22,800.00	12,383.79	20,977.45	10,821.62	91.08	88.12	0.00	10,505.58	762.44	1,563.17	1,456.53	106.64	14.658	
22,900.00	12,383.34	21,077.44	10,821.85	91.76	88.81	0.00	10,605.58	761.77	1,562.50	1,455.05	107.45	14.542	
23,000.00	12,382.89	21,177.44	10,822.07	92.43	89.51	0.00	10,705.57	761.11	1,561.83	1,453.57	108.26	14.427	
23,100.00	12,382.44	21,277.44	10,822.29	93.11	90.20	0.00	10,805.57	760.44	1,561.15	1,452.08	109.07	14.313	
23,200.00	12,381.99	21,377.44	10,822.52	93.78	90.89	0.00	10,905.56	759.78	1,560.48	1,450.60	109.88	14.201	
23,300.00	12,381.54	21,477.43	10,822.74	94.46	91.59	0.00	11,005.56	759.12	1,559.81	1,449.11	110.70	14.091	
23,400.00	12,381.09	21,577.43	10,822.96	95.14	92.29	0.00	11,105.56	758.45	1,559.13	1,447.62	111.51	13.982	
23,420.60	12,381.00	21,598.03	10,823.01	95.28	92.43	0.00	11,126.15	758.32	1,559.00	1,447.31	111.68	13.959	
23,500.00	12,380.64	21,677.43	10,823.19	95.82	92.99	0.00	11,205.55	757.79	1,558.46	1,446.13	112.33	13.874	
23,510.60	12,380.60	21,684.55	10,823.20	95.89	93.04	0.00	11,212.67	757.74	1,558.39	1,445.96	112.44	13.860	

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 223H - #223H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
16,600.00	12,411.66	15,122.54	11,150.48	54.45	50.76	-57.65	4,292.47	-1,181.63	2,349.39	2,254.96	94.43	24.879		
16,700.00	12,411.21	15,222.54	11,150.81	54.91	51.25	-57.67	4,392.47	-1,182.33	2,349.02	2,253.72	95.29	24.650		
16,800.00	12,410.76	15,322.53	11,151.14	55.37	51.74	-57.68	4,492.46	-1,183.04	2,348.64	2,252.47	96.17	24.423		
16,900.00	12,410.31	15,422.53	11,151.47	55.84	52.25	-57.70	4,592.46	-1,183.74	2,348.26	2,251.21	97.05	24.196		
17,000.00	12,409.86	15,522.53	11,151.80	56.32	52.75	-57.72	4,692.45	-1,184.45	2,347.89	2,249.94	97.95	23.971		
17,100.00	12,409.41	15,622.53	11,152.13	56.81	53.27	-57.73	4,792.44	-1,185.15	2,347.51	2,248.66	98.86	23.747		
17,200.00	12,408.96	15,722.52	11,152.46	57.30	53.78	-57.75	4,892.44	-1,185.85	2,347.14	2,247.36	99.78	23.524		
17,300.00	12,408.51	15,822.52	11,152.79	57.80	54.31	-57.77	4,992.43	-1,186.56	2,346.76	2,246.05	100.71	23.303		
17,400.00	12,408.06	15,922.52	11,153.12	58.30	54.84	-57.78	5,092.43	-1,187.26	2,346.39	2,244.74	101.65	23.083		
17,500.00	12,407.61	16,022.51	11,153.45	58.81	55.38	-57.80	5,192.42	-1,187.97	2,346.01	2,243.41	102.60	22.866		
17,600.00	12,407.17	16,122.51	11,153.78	59.32	55.92	-57.82	5,292.41	-1,188.67	2,345.64	2,242.07	103.56	22.650		
17,700.00	12,406.72	16,222.51	11,154.11	59.84	56.47	-57.83	5,392.41	-1,189.37	2,345.26	2,240.73	104.53	22.435		
17,800.00	12,406.27	16,322.50	11,154.44	60.37	57.02	-57.85	5,492.40	-1,190.08	2,344.89	2,239.37	105.51	22.223		
17,900.00	12,405.82	16,422.50	11,154.77	60.90	57.57	-57.87	5,592.40	-1,190.78	2,344.51	2,238.01	106.51	22.013		
18,000.00	12,405.37	16,522.50	11,155.10	61.43	58.14	-57.88	5,692.39	-1,191.49	2,344.14	2,236.63	107.51	21.805		
18,100.00	12,404.92	16,622.49	11,155.44	61.97	58.70	-57.90	5,792.38	-1,192.19	2,343.77	2,235.25	108.51	21.599		
18,200.00	12,404.47	16,722.49	11,155.77	62.52	59.27	-57.92	5,892.38	-1,192.90	2,343.39	2,233.86	109.53	21.395		
18,300.00	12,404.02	16,822.49	11,156.10	63.07	59.85	-57.93	5,992.37	-1,193.60	2,343.02	2,232.46	110.56	21.193		
18,400.00	12,403.57	16,922.49	11,156.43	63.62	60.43	-57.95	6,092.36	-1,194.30	2,342.64	2,231.06	111.59	20.993		
18,500.00	12,403.12	17,022.48	11,156.76	64.18	61.01	-57.97	6,192.36	-1,195.01	2,342.27	2,229.64	112.63	20.796		
18,600.00	12,402.67	17,122.48	11,157.09	64.74	61.60	-57.98	6,292.35	-1,195.71	2,341.90	2,228.22	113.68	20.601		
18,700.00	12,402.22	17,222.48	11,157.42	65.31	62.19	-58.00	6,392.35	-1,196.42	2,341.53	2,226.79	114.74	20.408		
18,800.00	12,401.77	17,322.47	11,157.75	65.88	62.78	-58.02	6,492.34	-1,197.12	2,341.15	2,225.35	115.80	20.217		
18,900.00	12,401.32	17,422.47	11,158.08	66.45	63.38	-58.03	6,592.33	-1,197.82	2,340.78	2,223.91	116.87	20.029		
19,000.00	12,400.87	17,522.47	11,158.41	67.03	63.99	-58.05	6,692.33	-1,198.53	2,340.41	2,222.46	117.95	19.842		
19,100.00	12,400.42	17,622.46	11,158.74	67.61	64.59	-58.07	6,792.32	-1,199.23	2,340.04	2,221.00	119.04	19.658		
19,200.00	12,399.97	17,722.46	11,159.07	68.20	65.20	-58.09	6,892.32	-1,199.94	2,339.67	2,219.54	120.13	19.477		
19,300.00	12,399.52	17,822.46	11,159.40	68.79	65.81	-58.10	6,992.31	-1,200.64	2,339.29	2,218.07	121.23	19.297		
19,400.00	12,399.07	17,922.46	11,159.73	69.38	66.43	-58.12	7,092.30	-1,201.34	2,338.92	2,216.59	122.33	19.120		
19,500.00	12,398.62	18,022.45	11,160.06	69.98	67.05	-58.14	7,192.30	-1,202.05	2,338.55	2,215.11	123.44	18.945		
19,600.00	12,398.17	18,122.45	11,160.40	70.58	67.67	-58.15	7,292.29	-1,202.75	2,338.18	2,213.63	124.56	18.772		
19,700.00	12,397.73	18,222.45	11,160.73	71.18	68.29	-58.17	7,392.29	-1,203.46	2,337.81	2,212.13	125.68	18.602		
19,800.00	12,397.28	18,322.44	11,161.06	71.78	68.92	-58.19	7,492.28	-1,204.16	2,337.44	2,210.63	126.81	18.433		
19,900.00	12,396.83	18,422.44	11,161.39	72.39	69.55	-58.20	7,592.27	-1,204.86	2,337.07	2,209.13	127.94	18.267		
20,000.00	12,396.38	18,522.44	11,161.72	73.01	70.18	-58.22	7,692.27	-1,205.57	2,336.70	2,207.62	129.08	18.103		
20,100.00	12,395.93	18,622.43	11,162.05	73.62	70.82	-58.24	7,792.26	-1,206.27	2,336.33	2,206.11	130.22	17.941		
20,200.00	12,395.48	18,722.43	11,162.38	74.24	71.46	-58.25	7,892.26	-1,206.98	2,335.96	2,204.59	131.37	17.781		
20,300.00	12,395.03	18,822.43	11,162.71	74.86	72.10	-58.27	7,992.25	-1,207.68	2,335.59	2,203.07	132.53	17.624		
20,400.00	12,394.58	18,922.42	11,163.04	75.48	72.74	-58.29	8,092.24	-1,208.38	2,335.22	2,201.54	133.69	17.468		
20,500.00	12,394.13	19,022.42	11,163.37	76.11	73.39	-58.30	8,192.24	-1,209.09	2,334.85	2,200.00	134.85	17.315		
20,600.00	12,393.68	19,122.42	11,163.70	76.73	74.03	-58.32	8,292.23	-1,209.79	2,334.48	2,198.47	136.02	17.163		
20,700.00	12,393.23	19,222.42	11,164.03	77.36	74.68	-58.34	8,392.23	-1,210.50	2,334.12	2,196.93	137.19	17.014		
20,800.00	12,392.78	19,322.41	11,164.36	78.00	75.34	-58.36	8,492.22	-1,211.20	2,333.75	2,195.38	138.37	16.866		
20,900.00	12,392.33	19,422.41	11,164.69	78.63	75.99	-58.37	8,592.21	-1,211.90	2,333.38	2,193.83	139.55	16.721		
21,000.00	12,391.88	19,522.41	11,165.02	79.27	76.65	-58.39	8,692.21	-1,212.61	2,333.01	2,192.28	140.74	16.577		
21,100.00	12,391.43	19,622.40	11,165.36	79.91	77.31	-58.41	8,792.20	-1,213.31	2,332.64	2,190.72	141.93	16.436		
21,200.00	12,390.98	19,722.40	11,165.69	80.55	77.97	-58.42	8,892.19	-1,214.02	2,332.28	2,189.16	143.12	16.296		
21,300.00	12,390.53	19,822.40	11,166.02	81.20	78.63	-58.44	8,992.19	-1,214.72	2,331.91	2,187.59	144.32	16.158		
21,400.00	12,390.08	19,922.39	11,166.35	81.84	79.29	-58.46	9,092.18	-1,215.42	2,331.54	2,186.02	145.52	16.022		
21,500.00	12,389.63	20,022.39	11,166.68	82.49	79.96	-58.47	9,192.18	-1,216.13	2,331.17	2,184.45	146.73	15.888		
21,600.00	12,389.18	20,122.39	11,167.01	83.14	80.63	-58.49	9,292.17	-1,216.83	2,330.81	2,182.87	147.94	15.755		
21,700.00	12,388.73	20,222.38	11,167.34	83.79	81.30	-58.51	9,392.16	-1,217.54	2,330.44	2,181.29	149.15	15.625		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													A05_Wild Salsa - Wild Salsa Fed Com 223H - #223H - ADP - Rev1		Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)					
21,800.00	12,388.29	20,322.38	11,167.67	84.45	81.97	-58.52	9,492.16	-1,218.24	2,330.08	2,179.71	150.37	15.496				
21,900.00	12,387.84	20,422.38	11,168.00	85.10	82.64	-58.54	9,592.15	-1,218.94	2,329.71	2,178.12	151.59	15.369				
22,000.00	12,387.39	20,522.38	11,168.33	85.76	83.31	-58.56	9,692.15	-1,219.65	2,329.34	2,176.53	152.81	15.243				
22,100.00	12,386.94	20,622.37	11,168.66	86.42	83.99	-58.58	9,792.14	-1,220.35	2,328.98	2,174.94	154.04	15.120				
22,200.00	12,386.49	20,722.37	11,168.99	87.08	84.67	-58.59	9,892.13	-1,221.06	2,328.61	2,173.34	155.27	14.997				
22,300.00	12,386.04	20,822.37	11,169.32	87.74	85.35	-58.61	9,992.13	-1,221.76	2,328.25	2,171.75	156.50	14.877				
22,400.00	12,385.59	20,922.36	11,169.65	88.41	86.03	-58.63	10,092.12	-1,222.46	2,327.88	2,170.14	157.74	14.758				
22,500.00	12,385.14	21,022.36	11,169.98	89.08	86.71	-58.64	10,192.12	-1,223.17	2,327.52	2,168.54	158.98	14.641				
22,600.00	12,384.69	21,122.36	11,170.32	89.74	87.39	-58.66	10,292.11	-1,223.87	2,327.15	2,166.93	160.22	14.525				
22,700.00	12,384.24	21,222.35	11,170.65	90.41	88.08	-58.68	10,392.10	-1,224.58	2,326.79	2,165.32	161.46	14.411				
22,800.00	12,383.79	21,322.35	11,170.98	91.08	88.76	-58.69	10,492.10	-1,225.28	2,326.42	2,163.71	162.71	14.298				
22,900.00	12,383.34	21,422.35	11,171.31	91.76	89.45	-58.71	10,592.09	-1,225.98	2,326.06	2,162.10	163.96	14.186				
23,000.00	12,382.89	21,522.35	11,171.64	92.43	90.14	-58.73	10,692.09	-1,226.69	2,325.70	2,160.48	165.22	14.077				
23,100.00	12,382.44	21,622.34	11,171.97	93.11	90.83	-58.75	10,792.08	-1,227.39	2,325.33	2,158.86	166.47	13.968				
23,200.00	12,381.99	21,722.34	11,172.30	93.78	91.52	-58.76	10,892.07	-1,228.10	2,324.97	2,157.24	167.73	13.861				
23,300.00	12,381.54	21,822.34	11,172.63	94.46	92.21	-58.78	10,992.07	-1,228.80	2,324.60	2,155.61	168.99	13.756				
23,400.00	12,381.09	21,922.33	11,172.96	95.14	92.90	-58.80	11,092.06	-1,229.50	2,324.24	2,153.98	170.26	13.651				
23,420.60	12,381.00	21,942.93	11,173.03	95.28	93.05	-58.80	11,112.65	-1,229.65	2,324.17	2,153.65	170.52	13.630				
23,500.00	12,380.64	22,022.33	11,173.29	95.82	93.60	-58.81	11,192.05	-1,230.21	2,323.88	2,152.36	171.52	13.548				
23,510.60	12,380.60	22,025.09	11,173.30	95.89	93.62	-58.81	11,194.81	-1,230.23	2,323.85	2,152.24	171.62	13.541	CC, ES, SF			

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 224H - #224H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
2,400.00	2,399.27	2,413.99	2,412.56	8.33	8.41	-6.58	45.71	420.78	402.65	385.93	16.71	24.091		
2,500.00	2,498.57	2,512.72	2,511.14	8.68	8.76	-7.49	49.93	417.27	387.99	370.58	17.41	22.287		
2,582.11	2,579.86	2,593.47	2,591.77	8.96	9.05	-8.34	53.38	414.39	374.11	356.13	17.98	20.808		
2,600.00	2,597.54	2,611.03	2,609.30	9.03	9.11	-8.53	54.13	413.77	370.91	352.81	18.10	20.489		
2,700.00	2,696.38	2,709.18	2,707.29	9.38	9.47	-9.66	58.32	410.28	353.10	334.31	18.79	18.787		
2,800.00	2,795.22	2,807.32	2,805.29	9.73	9.82	-10.91	62.52	406.79	335.44	315.95	19.49	17.213		
2,900.00	2,894.07	2,905.47	2,903.28	10.09	10.17	-12.30	66.71	403.29	317.95	297.77	20.18	15.754		
3,000.00	2,992.91	3,003.62	3,001.28	10.44	10.52	-13.85	70.91	399.80	300.67	279.79	20.88	14.400		
3,100.00	3,091.75	3,101.77	3,099.28	10.80	10.87	-15.58	75.10	396.31	283.62	262.04	21.58	13.143		
3,200.00	3,190.59	3,199.92	3,197.27	11.16	11.22	-17.53	79.30	392.82	266.86	244.58	22.28	11.978		
3,300.00	3,289.43	3,298.06	3,295.27	11.52	11.58	-19.74	83.49	389.32	250.45	227.46	22.98	10.897		
3,400.00	3,388.27	3,396.21	3,393.26	11.88	11.93	-22.25	87.69	385.83	234.45	210.76	23.69	9.896		
3,500.00	3,487.11	3,494.36	3,491.26	12.24	12.28	-25.12	91.88	382.34	218.96	194.56	24.40	8.974		
3,600.00	3,585.95	3,592.51	3,589.26	12.60	12.63	-28.41	96.08	378.85	204.09	178.98	25.11	8.127		
3,700.00	3,684.79	3,690.66	3,687.25	12.96	12.98	-32.19	100.27	375.35	190.00	164.16	25.83	7.355		
3,800.00	3,783.63	3,788.80	3,785.25	13.32	13.34	-36.54	104.47	371.86	176.85	150.30	26.56	6.660		
3,900.00	3,882.48	3,886.95	3,883.24	13.68	13.69	-41.54	108.66	368.37	164.89	137.61	27.29	6.043		
4,000.00	3,981.32	3,985.10	3,981.24	14.05	14.04	-47.25	112.86	364.88	154.39	126.37	28.02	5.510		
4,100.00	4,080.16	4,083.25	4,079.24	14.41	14.39	-53.70	117.05	361.39	145.66	116.91	28.76	5.065		
4,200.00	4,179.00	4,181.39	4,177.23	14.78	14.75	-60.84	121.25	357.89	139.04	109.54	29.50	4.714		
4,300.00	4,277.84	4,279.54	4,275.23	15.14	15.10	-68.53	125.44	354.40	134.84	104.61	30.23	4.460		
4,400.00	4,376.68	4,377.69	4,373.22	15.51	15.45	-76.55	129.64	350.91	133.28	102.32	30.96	4.305		
4,406.87	4,383.47	4,384.43	4,379.95	15.53	15.47	-77.11	129.93	350.67	133.27	102.27	31.01	4.298 CC, ES		
4,500.00	4,475.52	4,475.84	4,471.22	15.87	15.80	-84.59	133.83	347.42	134.46	102.79	31.67	4.246 SF		
4,600.00	4,574.36	4,573.99	4,569.22	16.24	16.15	-92.35	138.03	343.92	138.31	105.94	32.37	4.273		
4,700.00	4,673.20	4,672.13	4,667.21	16.60	16.51	-99.58	142.22	340.43	144.62	111.56	33.06	4.375		
4,800.00	4,772.04	4,770.28	4,765.21	16.97	16.86	-106.12	146.42	336.94	153.08	119.34	33.74	4.537		
4,900.00	4,870.89	4,868.43	4,863.20	17.34	17.21	-111.93	150.61	333.45	163.36	128.94	34.42	4.746		
5,000.00	4,969.73	4,966.58	4,961.20	17.70	17.56	-117.03	154.81	329.95	175.14	140.04	35.09	4.991		
5,100.00	5,068.57	5,064.73	5,059.20	18.07	17.92	-121.47	159.00	326.46	188.13	152.36	35.77	5.259		
5,200.00	5,167.41	5,162.87	5,157.19	18.44	18.27	-125.32	163.20	322.97	202.11	165.66	36.45	5.544		
5,300.00	5,266.25	5,261.02	5,255.19	18.81	18.62	-128.67	167.39	319.48	216.88	179.74	37.14	5.840		
5,400.00	5,365.09	5,359.17	5,353.18	19.17	18.97	-131.59	171.59	315.98	232.29	194.47	37.82	6.142		
5,500.00	5,463.93	5,457.32	5,451.18	19.54	19.33	-134.15	175.78	312.49	248.22	209.72	38.51	6.446		
5,600.00	5,562.77	5,555.47	5,549.18	19.91	19.68	-136.39	179.98	309.00	264.59	225.39	39.20	6.750		
5,700.00	5,661.61	5,653.61	5,647.17	20.28	20.03	-138.38	184.17	305.51	281.30	241.41	39.89	7.052		
5,800.00	5,760.45	5,751.76	5,745.17	20.65	20.38	-140.14	188.37	302.02	298.31	257.73	40.58	7.350		
5,900.00	5,859.30	5,849.91	5,843.16	21.02	20.74	-141.71	192.56	298.52	315.56	274.29	41.28	7.645		
6,000.00	5,958.14	5,948.06	5,941.16	21.38	21.09	-143.12	196.76	295.03	333.03	291.05	41.97	7.934		
6,100.00	6,056.98	6,046.20	6,039.16	21.75	21.44	-144.39	200.95	291.54	350.67	308.00	42.67	8.218		
6,200.00	6,155.82	6,144.35	6,137.15	22.12	21.79	-145.54	205.15	288.05	368.46	325.09	43.37	8.496		
6,300.00	6,254.66	6,242.50	6,235.15	22.49	22.15	-146.58	209.34	284.55	386.38	342.31	44.07	8.768		
6,400.00	6,353.50	6,340.65	6,333.14	22.86	22.50	-147.53	213.54	281.06	404.42	359.65	44.77	9.033		
6,500.00	6,452.34	6,438.80	6,431.14	23.23	22.85	-148.40	217.73	277.57	422.55	377.08	45.47	9.293		
6,600.00	6,551.18	6,536.94	6,529.14	23.60	23.21	-149.20	221.93	274.08	440.77	394.60	46.17	9.547		
6,700.00	6,650.02	6,635.09	6,627.13	23.97	23.56	-149.93	226.12	270.58	459.07	412.20	46.87	9.794		
6,800.00	6,748.86	6,733.24	6,725.13	24.34	23.91	-150.61	230.32	267.09	477.43	429.86	47.57	10.035		
6,900.00	6,847.71	6,831.39	6,823.12	24.71	24.26	-151.24	234.51	263.60	495.86	447.58	48.28	10.271		
7,000.00	6,946.55	6,929.54	6,921.12	25.08	24.62	-151.82	238.71	260.11	514.33	465.35	48.98	10.501		
7,100.00	7,045.39	7,027.68	7,019.12	25.45	24.97	-152.36	242.90	256.62	532.86	483.18	49.68	10.725		
7,200.00	7,144.23	7,125.83	7,117.11	25.82	25.32	-152.87	247.10	253.12	551.43	501.04	50.39	10.944		
7,300.00	7,243.07	7,223.98	7,215.11	26.19	25.67	-153.34	251.29	249.63	570.04	518.95	51.09	11.157		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
7,400.00	7,341.91	7,322.13	7,313.10	26.56	26.03	-153.78	255.49	246.14	588.68	536.89	51.79	11.366		
7,500.00	7,440.75	7,420.28	7,411.10	26.93	26.38	-154.20	259.68	242.65	607.36	554.86	52.50	11.569		
7,600.00	7,539.59	7,518.42	7,509.10	27.30	26.73	-154.59	263.88	239.15	626.06	572.86	53.20	11.767		
7,700.00	7,638.43	7,616.57	7,607.09	27.67	27.08	-154.96	268.07	235.66	644.79	590.88	53.91	11.961		
7,800.00	7,737.27	7,714.72	7,705.09	28.04	27.44	-155.31	272.27	232.17	663.55	608.93	54.61	12.150		
7,900.00	7,836.12	7,815.83	7,806.05	28.41	27.80	-155.65	276.55	228.60	682.29	626.95	55.34	12.328		
8,000.00	7,934.96	7,933.29	7,923.43	28.78	28.22	-156.11	279.75	225.94	699.31	643.12	56.19	12.446		
8,086.18	8,020.14	8,031.01	8,021.14	29.10	28.57	-156.57	280.34	225.45	711.89	655.02	56.87	12.518		
8,100.00	8,033.80	8,044.67	8,034.80	29.15	28.62	-156.64	280.34	225.45	713.80	656.83	56.97	12.530		
8,200.00	8,132.88	8,143.75	8,133.88	29.52	28.97	-157.14	280.34	225.45	726.26	668.58	57.67	12.592		
8,300.00	8,232.28	8,243.15	8,233.28	29.88	29.32	-157.53	280.34	225.45	736.35	677.97	58.38	12.613		
8,400.00	8,331.93	8,342.80	8,332.93	30.24	29.68	-157.82	280.34	225.45	744.06	684.96	59.09	12.592		
8,500.00	8,431.76	8,442.63	8,432.76	30.60	30.03	-158.01	280.34	225.45	749.35	689.55	59.80	12.531		
8,600.00	8,531.71	8,542.58	8,532.71	30.95	30.39	-158.12	280.34	225.45	752.22	691.71	60.51	12.432		
8,668.29	8,600.00	8,610.87	8,601.00	31.19	30.63	-68.14	280.34	225.45	752.79	691.80	60.99	12.343		
8,700.00	8,631.71	8,642.58	8,632.71	31.30	30.74	-68.14	280.34	225.45	752.79	691.58	61.21	12.298		
8,800.00	8,731.71	8,742.58	8,732.71	31.64	31.10	-68.14	280.34	225.45	752.79	690.88	61.91	12.159		
8,900.00	8,831.71	8,842.58	8,832.71	31.98	31.45	-68.14	280.34	225.45	752.79	690.18	62.61	12.023		
9,000.00	8,931.71	8,942.58	8,932.71	32.32	31.81	-68.14	280.34	225.45	752.79	689.48	63.31	11.890		
9,100.00	9,031.71	9,042.58	9,032.71	32.66	32.16	-68.14	280.34	225.45	752.79	688.78	64.01	11.760		
9,200.00	9,131.71	9,142.58	9,132.71	33.01	32.52	-68.14	280.34	225.45	752.79	688.08	64.71	11.633		
9,300.00	9,231.71	9,242.58	9,232.71	33.35	32.87	-68.14	280.34	225.45	752.79	687.37	65.41	11.508		
9,400.00	9,331.71	9,342.58	9,332.71	33.69	33.23	-68.14	280.34	225.45	752.79	686.67	66.12	11.386		
9,500.00	9,431.71	9,442.58	9,432.71	34.04	33.59	-68.14	280.34	225.45	752.79	685.97	66.82	11.266		
9,600.00	9,531.71	9,542.58	9,532.71	34.38	33.94	-68.14	280.34	225.45	752.79	685.27	67.52	11.149		
9,700.00	9,631.71	9,642.58	9,632.71	34.73	34.30	-68.14	280.34	225.45	752.79	684.57	68.22	11.034		
9,800.00	9,731.71	9,742.58	9,732.71	35.07	34.65	-68.14	280.34	225.45	752.79	683.86	68.93	10.922		
9,900.00	9,831.71	9,842.58	9,832.71	35.42	35.01	-68.14	280.34	225.45	752.79	683.16	69.63	10.812		
10,000.00	9,931.71	9,942.58	9,932.71	35.76	35.37	-68.14	280.34	225.45	752.79	682.46	70.33	10.703		
10,100.00	10,031.71	10,042.58	10,032.71	36.11	35.72	-68.14	280.34	225.45	752.79	681.75	71.04	10.597		
10,200.00	10,131.71	10,142.58	10,132.71	36.45	36.08	-68.14	280.34	225.45	752.79	681.05	71.74	10.493		
10,300.00	10,231.71	10,242.58	10,232.71	36.80	36.44	-68.14	280.34	225.45	752.79	680.34	72.44	10.391		
10,400.00	10,331.71	10,342.58	10,332.71	37.14	36.79	-68.14	280.34	225.45	752.79	679.64	73.15	10.291		
10,500.00	10,431.71	10,442.58	10,432.71	37.49	37.15	-68.14	280.34	225.45	752.79	678.94	73.85	10.193		
10,600.00	10,531.71	10,542.58	10,532.71	37.84	37.50	-68.14	280.34	225.45	752.79	678.23	74.56	10.097		
10,700.00	10,631.71	10,642.58	10,632.71	38.18	37.86	-68.14	280.34	225.45	752.79	677.52	75.26	10.002		
10,800.00	10,731.71	10,742.58	10,732.71	38.53	38.11	-68.04	281.85	225.20	754.24	678.48	75.76	9.956		
10,900.00	10,831.71	10,842.58	10,832.71	38.88	38.30	-67.56	289.10	224.00	761.44	685.44	76.00	10.019		
11,000.00	10,931.71	10,942.58	10,932.71	39.23	38.48	-66.76	301.58	221.95	774.80	698.78	76.02	10.192		
11,100.00	11,031.71	11,042.58	11,032.71	39.57	38.64	-65.72	318.05	219.24	794.53	718.73	75.80	10.482		
11,200.00	11,131.71	11,142.58	11,132.71	39.92	38.78	-64.54	337.17	216.09	820.78	745.46	75.32	10.897		
11,300.00	11,231.71	11,242.58	11,232.71	40.27	38.90	-63.32	357.50	212.74	853.58	779.00	74.58	11.445		
11,400.00	11,331.71	11,342.58	11,332.71	40.62	39.01	-62.10	378.53	209.28	892.79	819.15	73.64	12.123		
11,500.00	11,431.71	11,442.58	11,432.71	40.97	39.11	-60.74	402.76	205.29	938.17	865.49	72.68	12.908		
11,600.00	11,531.71	11,542.58	11,532.71	41.32	39.17	-59.81	419.82	202.48	989.18	917.81	71.37	13.860		
11,700.00	11,631.71	11,642.58	11,632.71	41.66	39.23	-58.86	437.79	199.52	1,045.45	975.36	70.09	14.915		
11,800.00	11,731.71	11,742.58	11,732.71	42.01	39.29	-57.89	456.61	196.42	1,106.45	1,037.55	68.90	16.059		
11,900.00	11,831.71	11,842.58	11,832.71	42.36	39.35	-56.91	476.25	193.19	1,171.67	1,103.87	67.81	17.280		
12,000.00	11,931.71	11,942.58	11,932.71	42.71	39.38	-56.45	485.68	191.64	1,240.49	1,173.97	66.52	18.649		
12,012.62	11,944.33	11,955.87	11,944.33	42.76	39.38	-56.37	487.47	191.34	1,249.43	1,183.04	66.38	18.822		
12,025.00	11,956.71	11,967.25	11,956.71	42.80	39.39	-40.12	489.24	191.05	1,258.15	1,191.90	66.25	18.992		
12,050.00	11,981.67	11,992.21	11,981.67	42.89	39.41	-38.01	496.64	189.83	1,275.41	1,209.33	66.08	19.302		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 224H - #224H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
12,075.00	12,006.53	11,150.00	11,064.59	42.97	39.41	-36.39	496.64	189.83	1,292.07	1,226.38	65.69	19.670		
12,100.00	12,031.22	11,150.00	11,064.59	43.06	39.41	-34.91	496.64	189.83	1,308.21	1,242.92	65.29	20.037		
12,125.00	12,055.67	11,160.26	11,070.05	43.14	39.43	-33.31	505.21	188.42	1,323.68	1,258.56	65.12	20.327		
12,150.00	12,079.82	11,172.87	11,076.50	43.22	39.46	-31.82	515.90	186.66	1,338.60	1,273.62	64.99	20.598		
12,175.00	12,103.60	11,172.87	11,076.50	43.30	39.46	-30.75	515.90	186.66	1,352.73	1,288.16	64.57	20.950		
12,200.00	12,126.93	11,175.00	11,077.56	43.38	39.46	-29.74	517.73	186.36	1,366.22	1,302.03	64.20	21.282		
12,225.00	12,149.77	11,183.63	11,081.78	43.45	39.48	-28.71	525.16	185.17	1,378.98	1,315.03	63.95	21.563		
12,250.00	12,172.05	11,190.37	11,084.98	43.52	39.49	-27.82	531.02	184.27	1,391.00	1,327.33	63.66	21.849		
12,275.00	12,193.70	11,200.00	11,089.42	43.59	39.51	-26.98	539.47	183.02	1,402.24	1,338.81	63.43	22.107		
12,300.00	12,214.67	11,200.00	11,089.42	43.65	39.51	-26.36	539.47	183.02	1,412.70	1,349.70	63.00	22.425		
12,325.00	12,234.89	11,211.19	11,094.37	43.71	39.53	-25.66	549.41	181.62	1,422.31	1,359.53	62.78	22.655		
12,350.00	12,254.33	11,225.00	11,100.17	43.77	39.56	-25.01	561.84	179.98	1,431.17	1,368.56	62.61	22.859		
12,375.00	12,272.91	11,225.00	11,100.17	43.82	39.56	-24.59	561.84	179.98	1,439.08	1,376.91	62.17	23.147		
12,400.00	12,290.59	11,225.00	11,100.17	43.87	39.56	-24.21	561.84	179.98	1,446.26	1,384.52	61.74	23.425		
12,425.00	12,307.32	11,240.01	11,106.07	43.91	39.59	-23.74	575.54	178.30	1,452.44	1,390.86	61.58	23.586		
12,450.00	12,323.05	11,250.00	11,109.77	43.95	39.61	-23.38	584.75	177.25	1,457.81	1,396.49	61.33	23.772		
12,475.00	12,337.75	11,250.00	11,109.77	43.98	39.61	-23.17	584.75	177.25	1,462.31	1,401.41	60.90	24.011		
12,500.00	12,351.37	11,262.13	11,114.01	44.01	39.63	-22.89	596.06	176.04	1,465.87	1,405.19	60.69	24.155		
12,512.62	12,357.83	11,265.88	11,115.26	44.03	39.63	-22.79	599.57	175.68	1,467.34	1,406.80	60.54	24.239		
12,525.00	12,363.89	11,275.00	11,118.20	44.04	39.65	-22.98	608.16	174.84	1,468.64	1,408.16	60.48	24.283		
12,550.00	12,375.38	11,275.00	11,118.20	44.06	39.65	-23.49	608.16	174.84	1,470.76	1,410.68	60.08	24.479		
12,575.00	12,385.81	11,284.52	11,121.10	44.08	39.66	-23.89	617.19	174.01	1,472.37	1,412.52	59.85	24.602		
12,600.00	12,395.16	11,300.00	11,125.44	44.10	39.69	-24.25	632.00	172.76	1,473.51	1,413.80	59.71	24.678		
12,625.00	12,403.40	11,300.00	11,125.44	44.11	39.69	-24.66	632.00	172.76	1,473.96	1,414.59	59.37	24.827		
12,650.00	12,410.52	11,300.00	11,125.44	44.12	39.69	-25.03	632.00	172.76	1,473.99	1,414.93	59.05	24.960		
12,675.00	12,416.49	11,314.67	11,129.12	44.13	39.71	-25.36	646.16	171.69	1,473.35	1,414.40	58.95	24.994		
13,000.00	12,427.84	11,413.42	11,142.83	44.14	39.83	-27.13	743.69	167.52	1,445.69	1,387.79	57.90	24.968		
13,100.00	12,427.39	11,479.64	11,143.67	44.14	39.89	-27.15	809.89	167.02	1,443.90	1,385.95	57.95	24.915		
13,200.00	12,426.94	11,579.63	11,144.60	44.18	39.98	-27.18	909.88	166.35	1,442.69	1,384.60	58.09	24.837		
13,300.00	12,426.50	11,679.62	11,145.52	44.29	40.10	-27.21	1,009.86	165.69	1,441.47	1,383.23	58.24	24.750		
13,400.00	12,426.05	11,779.61	11,146.45	44.42	40.22	-27.23	1,109.85	165.02	1,440.25	1,381.84	58.41	24.656		
13,500.00	12,425.60	11,879.60	11,147.37	44.57	40.37	-27.26	1,209.83	164.36	1,439.03	1,380.43	58.61	24.554		
13,600.00	12,425.15	11,979.59	11,148.30	44.73	40.52	-27.28	1,309.81	163.69	1,437.82	1,379.00	58.82	24.445		
13,700.00	12,424.70	12,079.58	11,149.22	44.90	40.69	-27.31	1,409.80	163.02	1,436.60	1,377.55	59.05	24.329		
13,800.00	12,424.25	12,179.57	11,150.14	45.08	40.87	-27.33	1,509.78	162.36	1,435.38	1,376.09	59.30	24.207		
13,900.00	12,423.80	12,279.56	11,151.07	45.28	41.07	-27.36	1,609.77	161.69	1,434.17	1,374.60	59.56	24.078		
14,000.00	12,423.35	12,379.55	11,151.99	45.48	41.28	-27.38	1,709.75	161.03	1,432.95	1,373.10	59.85	23.942		
14,100.00	12,422.90	12,479.54	11,152.92	45.70	41.50	-27.41	1,809.74	160.36	1,431.74	1,371.58	60.15	23.802		
14,200.00	12,422.45	12,579.54	11,153.84	45.93	41.74	-27.44	1,909.72	159.69	1,430.52	1,370.05	60.47	23.655		
14,300.00	12,422.00	12,679.53	11,154.77	46.17	41.99	-27.46	2,009.70	159.03	1,429.30	1,368.49	60.81	23.503		
14,400.00	12,421.55	12,779.52	11,155.69	46.43	42.25	-27.49	2,109.69	158.36	1,428.09	1,366.92	61.17	23.347		
14,500.00	12,421.10	12,879.51	11,156.62	46.69	42.52	-27.51	2,209.67	157.70	1,426.88	1,365.33	61.54	23.185		
14,600.00	12,420.65	12,979.50	11,157.54	46.96	42.81	-27.54	2,309.66	157.03	1,425.66	1,363.73	61.93	23.020		
14,700.00	12,420.20	13,079.49	11,158.47	47.25	43.11	-27.56	2,409.64	156.36	1,424.45	1,362.11	62.34	22.851		
14,800.00	12,419.75	13,179.48	11,159.39	47.54	43.41	-27.59	2,509.62	155.70	1,423.23	1,360.48	62.76	22.678		
14,900.00	12,419.30	13,279.47	11,160.32	47.85	43.73	-27.62	2,609.61	155.03	1,422.02	1,358.82	63.20	22.501		
15,000.00	12,418.85	13,379.46	11,161.24	48.17	44.07	-27.64	2,709.59	154.37	1,420.81	1,357.16	63.65	22.322		
15,100.00	12,418.40	13,479.45	11,162.17	48.49	44.41	-27.67	2,809.58	153.70	1,419.60	1,355.48	64.12	22.140		
15,200.00	12,417.95	13,579.44	11,163.09	48.83	44.76	-27.69	2,909.56	153.03	1,418.38	1,353.78	64.60	21.956		
15,300.00	12,417.50	13,679.43	11,164.02	49.17	45.12	-27.72	3,009.54	152.37	1,417.17	1,352.07	65.10	21.769		
15,400.00	12,417.05	13,779.42	11,164.94	49.53	45.49	-27.75	3,109.53	151.70	1,415.96	1,350.35	65.61	21.581		
15,500.00	12,416.61	13,879.41	11,165.87	49.89	45.88	-27.77	3,209.51	151.04	1,414.75	1,348.61	66.14	21.391		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 224H - #224H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
15,600.00	12,416.16	13,979.40	11,166.79	50.26	46.27	-27.80	3,309.50	150.37	1,413.54	1,346.86	66.68	21.200		
15,700.00	12,415.71	14,079.39	11,167.72	50.65	46.67	-27.83	3,409.48	149.70	1,412.33	1,345.10	67.23	21.007		
15,800.00	12,415.26	14,179.38	11,168.64	51.04	47.08	-27.85	3,509.46	149.04	1,411.12	1,343.32	67.80	20.814		
15,900.00	12,414.81	14,279.37	11,169.57	51.44	47.50	-27.88	3,609.45	148.37	1,409.91	1,341.53	68.38	20.620		
16,000.00	12,414.36	14,379.37	11,170.49	51.84	47.93	-27.91	3,709.43	147.71	1,408.70	1,339.73	68.97	20.425		
16,100.00	12,413.91	14,479.36	11,171.41	52.26	48.36	-27.93	3,809.42	147.04	1,407.49	1,337.91	69.57	20.231		
16,200.00	12,413.46	14,579.35	11,172.34	52.68	48.81	-27.96	3,909.40	146.37	1,406.28	1,336.09	70.19	20.036		
16,300.00	12,413.01	14,679.34	11,173.26	53.11	49.26	-27.99	4,009.38	145.71	1,405.07	1,334.25	70.81	19.842		
16,400.00	12,412.56	14,779.33	11,174.19	53.55	49.72	-28.01	4,109.37	145.04	1,403.86	1,332.41	71.45	19.647		
16,500.00	12,412.11	14,879.32	11,175.11	53.99	50.18	-28.04	4,209.35	144.38	1,402.65	1,330.55	72.10	19.454		
16,600.00	12,411.66	14,979.31	11,176.04	54.45	50.66	-28.07	4,309.34	143.71	1,401.44	1,328.68	72.76	19.261		
16,700.00	12,411.21	15,079.30	11,176.96	54.91	51.14	-28.09	4,409.32	143.05	1,400.23	1,326.80	73.43	19.068		
16,800.00	12,410.76	15,179.29	11,177.89	55.37	51.63	-28.12	4,509.30	142.38	1,399.03	1,324.91	74.11	18.877		
16,900.00	12,410.31	15,279.28	11,178.81	55.84	52.12	-28.15	4,609.29	141.71	1,397.82	1,323.01	74.81	18.686		
17,000.00	12,409.86	15,379.27	11,179.74	56.32	52.62	-28.17	4,709.27	141.05	1,396.61	1,321.11	75.51	18.497		
17,100.00	12,409.41	15,479.26	11,180.66	56.81	53.13	-28.20	4,809.26	140.38	1,395.41	1,319.19	76.22	18.309		
17,200.00	12,408.96	15,579.25	11,181.59	57.30	53.65	-28.23	4,909.24	139.72	1,394.20	1,317.26	76.94	18.122		
17,300.00	12,408.51	15,679.24	11,182.51	57.80	54.17	-28.25	5,009.23	139.05	1,392.99	1,315.33	77.66	17.936		
17,400.00	12,408.06	15,779.23	11,183.44	58.30	54.69	-28.28	5,109.21	138.38	1,391.79	1,313.39	78.40	17.752		
17,500.00	12,407.61	15,879.22	11,184.36	58.81	55.22	-28.31	5,209.19	137.72	1,390.58	1,311.43	79.15	17.569		
17,600.00	12,407.17	15,979.21	11,185.29	59.32	55.76	-28.34	5,309.18	137.05	1,389.38	1,309.48	79.90	17.388		
17,700.00	12,406.72	16,079.20	11,186.21	59.84	56.30	-28.36	5,409.16	136.39	1,388.17	1,307.51	80.67	17.209		
17,800.00	12,406.27	16,179.20	11,187.14	60.37	56.85	-28.39	5,509.15	135.72	1,386.97	1,305.53	81.44	17.031		
17,900.00	12,405.82	16,279.19	11,188.06	60.90	57.40	-28.42	5,609.13	135.05	1,385.76	1,303.55	82.21	16.856		
18,000.00	12,405.37	16,379.18	11,188.99	61.43	57.96	-28.45	5,709.11	134.39	1,384.56	1,301.56	83.00	16.681		
18,100.00	12,404.92	16,479.17	11,189.91	61.97	58.52	-28.47	5,809.10	133.72	1,383.36	1,299.56	83.79	16.509		
18,200.00	12,404.47	16,579.16	11,190.84	62.52	59.09	-28.50	5,909.08	133.06	1,382.15	1,297.56	84.59	16.339		
18,300.00	12,404.02	16,679.15	11,191.76	63.07	59.66	-28.53	6,009.07	132.39	1,380.95	1,295.55	85.40	16.170		
18,400.00	12,403.57	16,779.14	11,192.68	63.62	60.23	-28.56	6,109.05	131.72	1,379.75	1,293.53	86.22	16.003		
18,500.00	12,403.12	16,879.13	11,193.61	64.18	60.81	-28.58	6,209.03	131.06	1,378.55	1,291.51	87.04	15.839		
18,600.00	12,402.67	16,979.12	11,194.53	64.74	61.39	-28.61	6,309.02	130.39	1,377.34	1,289.48	87.86	15.676		
18,700.00	12,402.22	17,079.11	11,195.46	65.31	61.98	-28.64	6,409.00	129.73	1,376.14	1,287.44	88.70	15.515		
18,800.00	12,401.77	17,179.10	11,196.38	65.88	62.57	-28.67	6,508.99	129.06	1,374.94	1,285.40	89.54	15.356		
18,900.00	12,401.32	17,279.09	11,197.31	66.45	63.17	-28.69	6,608.97	128.39	1,373.74	1,283.36	90.39	15.199		
19,000.00	12,400.87	17,379.08	11,198.23	67.03	63.77	-28.72	6,708.95	127.73	1,372.54	1,281.30	91.24	15.044		
19,100.00	12,400.42	17,479.07	11,199.16	67.61	64.37	-28.75	6,808.94	127.06	1,371.34	1,279.25	92.10	14.890		
19,200.00	12,399.97	17,579.06	11,200.08	68.20	64.97	-28.78	6,908.92	126.40	1,370.14	1,277.18	92.96	14.739		
19,300.00	12,399.52	17,679.05	11,201.01	68.79	65.58	-28.81	7,008.91	125.73	1,368.94	1,275.11	93.83	14.590		
19,400.00	12,399.07	17,779.04	11,201.93	69.38	66.19	-28.83	7,108.89	125.06	1,367.74	1,273.04	94.70	14.443		
19,500.00	12,398.62	17,879.03	11,202.86	69.98	66.81	-28.86	7,208.87	124.40	1,366.54	1,270.96	95.58	14.297		
19,600.00	12,398.17	17,979.03	11,203.78	70.58	67.43	-28.89	7,308.86	123.73	1,365.34	1,268.88	96.47	14.154		
19,700.00	12,397.73	18,079.02	11,204.71	71.18	68.05	-28.92	7,408.84	123.07	1,364.15	1,266.79	97.36	14.012		
19,800.00	12,397.28	18,179.01	11,205.63	71.78	68.67	-28.95	7,508.83	122.40	1,362.95	1,264.70	98.25	13.872		
19,900.00	12,396.83	18,279.00	11,206.56	72.39	69.30	-28.98	7,608.81	121.73	1,361.75	1,262.60	99.15	13.734		
20,000.00	12,396.38	18,378.99	11,207.48	73.01	69.93	-29.00	7,708.79	121.07	1,360.55	1,260.50	100.06	13.598		
20,100.00	12,395.93	18,478.98	11,208.41	73.62	70.56	-29.03	7,808.78	120.40	1,359.36	1,258.39	100.96	13.464		
20,200.00	12,395.48	18,578.97	11,209.33	74.24	71.20	-29.06	7,908.76	119.74	1,358.16	1,256.28	101.88	13.331		
20,300.00	12,395.03	18,678.96	11,210.26	74.86	71.84	-29.09	8,008.75	119.07	1,356.96	1,254.17	102.80	13.201		
20,400.00	12,394.58	18,778.95	11,211.18	75.48	72.48	-29.12	8,108.73	118.40	1,355.77	1,252.05	103.72	13.072		
20,500.00	12,394.13	18,878.94	11,212.11	76.11	73.12	-29.15	8,208.72	117.74	1,354.57	1,249.93	104.64	12.945		
20,600.00	12,393.68	18,978.93	11,213.03	76.73	73.77	-29.18	8,308.70	117.07	1,353.38	1,247.80	105.57	12.819		
20,700.00	12,393.23	19,078.92	11,213.95	77.36	74.41	-29.20	8,408.68	116.41	1,352.18	1,245.67	106.51	12.696		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 224H - #224H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
20,800.00	12,392.78	19,178.91	11,214.88	78.00	75.06	-29.23	8,508.67	115.74	1,350.99	1,243.54	107.45	12.574		
20,900.00	12,392.33	19,278.90	11,215.80	78.63	75.71	-29.26	8,608.65	115.07	1,349.79	1,241.41	108.39	12.453		
21,000.00	12,391.88	19,378.89	11,216.73	79.27	76.37	-29.29	8,708.64	114.41	1,348.60	1,239.27	109.33	12.335		
21,100.00	12,391.43	19,478.88	11,217.65	79.91	77.02	-29.32	8,808.62	113.74	1,347.41	1,237.12	110.28	12.218		
21,200.00	12,390.98	19,578.87	11,218.58	80.55	77.68	-29.35	8,908.60	113.08	1,346.21	1,234.98	111.24	12.102		
21,300.00	12,390.53	19,678.86	11,219.50	81.20	78.34	-29.38	9,008.59	112.41	1,345.02	1,232.83	112.19	11.988		
21,400.00	12,390.08	19,778.86	11,220.43	81.84	79.00	-29.41	9,108.57	111.74	1,343.83	1,230.67	113.15	11.876		
21,500.00	12,389.63	19,878.85	11,221.35	82.49	79.67	-29.44	9,208.56	111.08	1,342.64	1,228.52	114.12	11.765		
21,600.00	12,389.18	19,978.84	11,222.28	83.14	80.33	-29.47	9,308.54	110.41	1,341.44	1,226.36	115.09	11.656		
21,700.00	12,388.73	20,078.83	11,223.20	83.79	81.00	-29.49	9,408.52	109.75	1,340.25	1,224.20	116.06	11.548		
21,800.00	12,388.29	20,178.82	11,224.13	84.45	81.67	-29.52	9,508.51	109.08	1,339.06	1,222.03	117.03	11.442		
21,900.00	12,387.84	20,278.81	11,225.05	85.10	82.34	-29.55	9,608.49	108.41	1,337.87	1,219.86	118.01	11.337		
22,000.00	12,387.39	20,378.80	11,225.98	85.76	83.01	-29.58	9,708.48	107.75	1,336.68	1,217.69	118.99	11.234		
22,100.00	12,386.94	20,478.79	11,226.90	86.42	83.69	-29.61	9,808.46	107.08	1,335.49	1,215.52	119.97	11.132		
22,200.00	12,386.49	20,578.78	11,227.83	87.08	84.36	-29.64	9,908.44	106.42	1,334.30	1,213.35	120.96	11.031		
22,300.00	12,386.04	20,678.77	11,228.75	87.74	85.04	-29.67	10,008.43	105.75	1,333.11	1,211.17	121.94	10.932		
22,400.00	12,385.59	20,778.76	11,229.68	88.41	85.72	-29.70	10,108.41	105.08	1,331.92	1,208.99	122.94	10.834		
22,500.00	12,385.14	20,878.75	11,230.60	89.08	86.40	-29.73	10,208.40	104.42	1,330.73	1,206.80	123.93	10.738		
22,600.00	12,384.69	20,978.74	11,231.53	89.74	87.08	-29.76	10,308.38	103.75	1,329.55	1,204.62	124.93	10.642		
22,700.00	12,384.24	21,078.73	11,232.45	90.41	87.76	-29.79	10,408.36	103.09	1,328.36	1,202.43	125.93	10.548		
22,800.00	12,383.79	21,178.72	11,233.38	91.08	88.44	-29.82	10,508.35	102.42	1,327.17	1,200.24	126.93	10.456		
22,900.00	12,383.34	21,278.71	11,234.30	91.76	89.13	-29.85	10,608.33	101.75	1,325.98	1,198.05	127.94	10.364		
23,000.00	12,382.89	21,378.70	11,235.22	92.43	89.82	-29.88	10,708.32	101.09	1,324.80	1,195.85	128.95	10.274		
23,100.00	12,382.44	21,478.69	11,236.15	93.11	90.50	-29.91	10,808.30	100.42	1,323.61	1,193.65	129.96	10.185		
23,200.00	12,381.99	21,578.69	11,237.07	93.78	91.19	-29.94	10,908.28	99.76	1,322.42	1,191.45	130.97	10.097		
23,300.00	12,381.54	21,678.68	11,238.00	94.46	91.88	-29.97	11,008.27	99.09	1,321.24	1,189.25	131.99	10.010		
23,400.00	12,381.09	21,778.67	11,238.92	95.14	92.58	-30.00	11,108.25	98.43	1,320.05	1,187.05	133.01	9.925		
23,420.60	12,381.00	21,799.26	11,239.11	95.28	92.72	-30.01	11,128.84	98.29	1,319.81	1,186.59	133.22	9.907		
23,500.00	12,380.64	21,876.93	11,239.83	95.82	93.26	-30.03	11,206.51	97.77	1,318.87	1,184.84	134.03	9.840		
23,510.60	12,380.60	21,876.93	11,239.83	95.89	93.26	-30.03	11,206.51	97.77	1,318.80	1,184.63	134.17	9.829		

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 323H - #323H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
500.00	500.00	498.00	498.00	1.57	1.56	-90.53	-0.69	-75.11	75.11	71.98	3.13	24.002		
600.00	600.00	598.00	598.00	1.93	1.92	-90.53	-0.69	-75.11	75.11	71.27	3.85	19.528		
700.00	700.00	698.00	698.00	2.29	2.28	-90.53	-0.69	-75.11	75.11	70.55	4.56	16.460		
800.00	800.00	798.00	798.00	2.64	2.64	-90.53	-0.69	-75.11	75.11	69.83	5.28	14.225		
900.00	900.00	898.00	898.00	3.00	3.00	-90.53	-0.69	-75.11	75.11	69.12	6.00	12.525		
1,000.00	1,000.00	998.00	998.00	3.36	3.35	-90.53	-0.69	-75.11	75.11	68.40	6.71	11.187		
1,100.00	1,100.00	1,098.00	1,098.00	3.72	3.71	-90.53	-0.69	-75.11	75.11	67.68	7.43	10.108		
1,200.00	1,200.00	1,198.00	1,198.00	4.08	4.07	-90.53	-0.69	-75.11	75.11	66.97	8.15	9.219		
1,300.00	1,300.00	1,298.00	1,298.00	4.44	4.43	-90.53	-0.69	-75.11	75.11	66.25	8.87	8.473		
1,305.90	1,305.90	1,303.90	1,303.90	4.46	4.45	-90.53	-0.69	-75.11	75.11	66.21	8.91	8.433 CC		
1,400.00	1,400.00	1,397.07	1,397.07	4.79	4.78	-90.52	-0.69	-75.40	75.41	65.84	9.57	7.877 ES		
1,500.00	1,500.00	1,495.08	1,495.04	5.15	5.12	-90.51	-0.69	-77.86	77.92	67.66	10.26	7.593		
1,600.00	1,600.00	1,592.89	1,592.73	5.51	5.45	-90.48	-0.69	-82.83	83.00	72.05	10.95	7.583 SF		
1,700.00	1,700.00	1,690.39	1,689.93	5.87	5.79	-90.44	-0.69	-90.27	90.63	79.01	11.62	7.797		
1,800.00	1,800.00	1,787.44	1,786.48	6.23	6.13	-90.40	-0.69	-100.13	100.79	88.50	12.29	8.200		
1,900.00	1,900.00	1,883.93	1,882.19	6.59	6.47	-90.35	-0.69	-112.37	113.47	100.52	12.95	8.763		
2,000.00	2,000.00	1,980.03	1,977.18	6.95	6.81	-90.31	-0.69	-126.94	128.64	115.04	13.60	9.456		
2,100.00	2,099.99	2,078.49	2,074.34	7.30	7.16	179.72	-0.69	-142.88	146.12	131.82	14.29	10.224		
2,200.00	2,199.91	2,176.45	2,171.01	7.64	7.51	179.76	-0.69	-158.74	166.16	151.19	14.97	11.098		
2,300.00	2,299.69	2,273.86	2,267.14	7.98	7.86	179.78	-0.70	-174.50	188.77	173.12	15.65	12.061		
2,400.00	2,399.27	2,370.65	2,362.64	8.33	8.21	179.81	-0.70	-190.17	213.92	197.59	16.33	13.101		
2,500.00	2,498.57	2,466.74	2,457.47	8.68	8.56	179.83	-0.70	-205.72	241.59	224.59	17.00	14.209		
2,582.11	2,579.86	2,545.08	2,534.77	8.96	8.85	179.84	-0.70	-218.41	266.19	248.63	17.55	15.165		
2,600.00	2,597.54	2,562.08	2,551.56	9.03	8.91	179.85	-0.70	-221.16	271.73	254.05	17.67	15.375		
2,700.00	2,696.38	2,657.16	2,645.38	9.38	9.25	179.86	-0.70	-236.55	302.71	284.37	18.34	16.506		
2,800.00	2,795.22	2,752.25	2,739.21	9.73	9.60	179.88	-0.70	-251.94	333.69	314.68	19.01	17.557		
2,900.00	2,894.07	2,847.33	2,833.04	10.09	9.95	179.89	-0.70	-267.33	364.67	344.99	19.68	18.534		
3,000.00	2,992.91	2,942.41	2,928.86	10.44	10.30	179.89	-0.70	-282.72	395.65	375.30	20.35	19.447		
3,100.00	3,091.75	3,037.49	3,020.69	10.80	10.65	179.90	-0.70	-298.11	426.63	405.61	21.02	20.299		
3,200.00	3,190.59	3,132.57	3,114.52	11.16	11.00	179.91	-0.70	-313.50	457.61	435.92	21.69	21.098		
3,300.00	3,289.43	3,227.65	3,208.34	11.52	11.35	179.91	-0.70	-328.89	488.59	466.22	22.36	21.847		
3,400.00	3,388.27	3,322.73	3,302.17	11.88	11.70	179.92	-0.70	-344.28	519.57	496.53	23.04	22.552		
3,500.00	3,487.11	3,417.81	3,395.99	12.24	12.05	179.92	-0.70	-359.67	550.55	526.83	23.71	23.215		
3,600.00	3,585.95	3,512.89	3,489.82	12.60	12.40	179.93	-0.71	-375.06	581.53	557.14	24.39	23.841		
3,700.00	3,684.79	3,607.97	3,583.65	12.96	12.75	179.93	-0.71	-390.46	612.51	587.44	25.07	24.433		
3,800.00	3,783.63	3,703.05	3,677.47	13.32	13.10	179.94	-0.71	-405.85	643.49	617.74	25.75	24.992		
12,050.00	11,981.67	12,350.00	12,152.44	42.89	43.66	-68.03	265.38	-1,172.86	2,120.18	2,035.33	84.85	24.988		
12,075.00	12,006.53	12,361.07	12,157.16	42.97	43.67	-68.09	275.26	-1,171.20	2,117.24	2,032.25	85.00	24.910		
12,100.00	12,031.22	12,366.77	12,159.51	43.06	43.67	-68.32	280.38	-1,170.38	2,114.09	2,028.96	85.13	24.832		
12,125.00	12,055.67	12,375.00	12,162.80	43.14	43.68	-68.51	287.84	-1,169.22	2,110.72	2,025.45	85.27	24.754		
12,150.00	12,079.82	12,375.00	12,162.80	43.22	43.68	-68.92	287.84	-1,169.22	2,107.13	2,021.74	85.39	24.678		
12,175.00	12,103.60	12,385.12	12,166.67	43.30	43.69	-69.13	297.09	-1,167.86	2,103.30	2,017.79	85.51	24.598		
12,200.00	12,126.93	12,391.61	12,169.06	43.38	43.69	-69.46	303.07	-1,167.03	2,099.26	2,013.64	85.62	24.520		
12,225.00	12,149.77	12,400.00	12,172.03	43.45	43.69	-69.78	310.84	-1,165.99	2,095.00	2,009.28	85.72	24.440		
12,250.00	12,172.05	12,400.00	12,172.03	43.52	43.69	-70.29	310.84	-1,165.99	2,090.55	2,004.75	85.80	24.364		
12,275.00	12,193.70	12,412.06	12,176.08	43.59	43.70	-70.59	322.12	-1,164.58	2,085.86	1,999.96	85.90	24.283		
12,300.00	12,214.67	12,425.00	12,180.13	43.65	43.70	-70.92	334.32	-1,163.17	2,081.01	1,995.02	85.99	24.202		
12,325.00	12,234.89	12,425.00	12,180.13	43.71	43.70	-71.51	334.32	-1,163.17	2,075.92	1,989.87	86.05	24.125		
12,350.00	12,254.33	12,433.77	12,182.69	43.77	43.71	-71.98	342.66	-1,162.29	2,070.67	1,984.55	86.12	24.045		
12,375.00	12,272.91	12,441.24	12,184.76	43.82	43.71	-72.50	349.81	-1,161.57	2,065.23	1,979.06	86.18	23.965		
12,400.00	12,290.59	12,450.00	12,187.06	43.87	43.71	-73.02	358.22	-1,160.79	2,059.63	1,973.40	86.23	23.884		
12,425.00	12,307.32	12,450.00	12,187.06	43.91	43.71	-73.70	358.22	-1,160.79	2,053.90	1,967.62	86.27	23.807		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 323H - #323H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
12,450.00	12,323.05	12,464.29	12,190.49	43.95	43.72	-74.21	372.04	-1,159.61	2,047.95	1,961.63	86.33	23.724		
12,475.00	12,337.75	12,475.00	12,192.80	43.98	43.72	-74.79	382.47	-1,158.83	2,041.90	1,955.53	86.37	23.642		
12,500.00	12,351.37	12,475.00	12,192.80	44.01	43.72	-75.53	382.47	-1,158.83	2,035.73	1,949.34	86.39	23.564		
12,512.62	12,357.83	12,484.16	12,194.60	44.03	43.72	-75.81	391.43	-1,158.22	2,032.54	1,946.13	86.42	23.520		
12,525.00	12,363.89	12,488.15	12,195.34	44.04	43.72	-76.52	395.35	-1,157.98	2,029.48	1,943.05	86.43	23.481		
12,550.00	12,375.38	12,500.00	12,197.34	44.06	43.72	-77.81	407.01	-1,157.31	2,023.69	1,937.22	86.47	23.405		
12,575.00	12,385.81	12,500.00	12,197.34	44.08	43.72	-79.04	407.01	-1,157.31	2,018.41	1,931.93	86.48	23.339		
12,600.00	12,395.16	12,512.94	12,199.22	44.10	43.72	-80.03	419.79	-1,156.70	2,013.64	1,927.13	86.51	23.276		
12,625.00	12,403.40	12,525.00	12,200.68	44.11	43.72	-80.89	431.76	-1,156.23	2,009.44	1,922.90	86.54	23.220		
12,650.00	12,410.52	12,525.00	12,200.68	44.12	43.72	-81.69	431.76	-1,156.23	2,005.80	1,919.25	86.55	23.174		
12,675.00	12,416.49	12,538.51	12,201.97	44.13	43.72	-82.29	445.20	-1,155.84	2,002.70	1,916.12	86.58	23.132		
12,700.00	12,421.30	12,550.00	12,202.79	44.14	43.73	-82.77	456.66	-1,155.60	2,000.20	1,913.59	86.60	23.097		
12,725.00	12,424.93	12,550.00	12,202.79	44.14	43.73	-83.17	456.66	-1,155.60	1,998.29	1,911.67	86.61	23.071		
12,750.00	12,427.37	12,564.57	12,203.45	44.14	43.73	-83.42	471.21	-1,155.44	1,996.92	1,910.28	86.64	23.050		
12,775.00	12,428.61	12,575.00	12,203.67	44.14	43.73	-83.56	481.64	-1,155.42	1,996.17	1,909.52	86.66	23.036		
12,790.87	12,428.78	12,578.87	12,203.69	44.14	43.73	-83.58	485.51	-1,155.43	1,996.00	1,909.34	86.67	23.031		
12,800.00	12,428.74	12,582.67	12,203.69	44.14	43.73	-83.58	489.30	-1,155.45	1,995.99	1,909.31	86.67	23.029		
12,800.90	12,428.74	12,582.67	12,203.69	44.14	43.73	-83.58	489.30	-1,155.45	1,995.99	1,909.31	86.67	23.029		
12,900.00	12,428.29	12,680.94	12,203.26	44.14	43.73	-83.58	587.57	-1,156.13	1,996.03	1,909.23	86.80	22.996		
13,000.00	12,427.84	12,780.94	12,202.82	44.14	43.74	-83.58	687.57	-1,156.83	1,996.07	1,909.11	86.95	22.956		
13,100.00	12,427.39	12,880.94	12,202.38	44.14	43.76	-83.59	787.57	-1,157.53	1,996.11	1,908.98	87.13	22.909		
13,200.00	12,426.94	12,980.94	12,201.94	44.18	43.80	-83.59	887.56	-1,158.23	1,996.15	1,908.81	87.34	22.855		
13,300.00	12,426.50	13,080.94	12,201.50	44.29	43.85	-83.59	987.56	-1,158.93	1,996.19	1,908.62	87.57	22.795		
13,400.00	12,426.05	13,180.94	12,201.06	44.42	43.94	-83.59	1,087.56	-1,159.63	1,996.23	1,908.40	87.83	22.728		
13,500.00	12,425.60	13,280.94	12,200.62	44.57	44.05	-83.59	1,187.55	-1,160.33	1,996.27	1,908.16	88.12	22.655		
13,600.00	12,425.15	13,380.94	12,200.18	44.73	44.19	-83.59	1,287.55	-1,161.02	1,996.32	1,907.89	88.43	22.576		
13,700.00	12,424.70	13,480.94	12,199.74	44.90	44.35	-83.59	1,387.55	-1,161.72	1,996.36	1,907.60	88.76	22.491		
13,800.00	12,424.25	13,580.94	12,199.30	45.08	44.53	-83.59	1,487.54	-1,162.42	1,996.40	1,907.28	89.12	22.401		
13,900.00	12,423.80	13,680.94	12,198.86	45.28	44.72	-83.59	1,587.54	-1,163.12	1,996.44	1,906.93	89.51	22.305		
14,000.00	12,423.35	13,780.94	12,198.42	45.48	44.92	-83.59	1,687.54	-1,163.82	1,996.48	1,906.57	89.91	22.204		
14,100.00	12,422.90	13,880.94	12,197.98	45.70	45.14	-83.59	1,787.53	-1,164.52	1,996.52	1,906.17	90.35	22.098		
14,200.00	12,422.45	13,980.94	12,197.54	45.93	45.37	-83.59	1,887.53	-1,165.21	1,996.56	1,905.76	90.80	21.988		
14,300.00	12,422.00	14,080.94	12,197.10	46.17	45.61	-83.59	1,987.52	-1,165.91	1,996.60	1,905.32	91.28	21.873		
14,400.00	12,421.55	14,180.94	12,196.66	46.43	45.87	-83.59	2,087.52	-1,166.61	1,996.65	1,904.86	91.78	21.754		
14,500.00	12,421.10	14,280.94	12,196.22	46.69	46.13	-83.59	2,187.52	-1,167.31	1,996.69	1,904.38	92.31	21.630		
14,600.00	12,420.65	14,380.94	12,195.78	46.96	46.41	-83.59	2,287.51	-1,168.01	1,996.73	1,903.87	92.86	21.503		
14,700.00	12,420.20	14,480.94	12,195.34	47.25	46.70	-83.59	2,387.51	-1,168.71	1,996.77	1,903.34	93.43	21.373		
14,800.00	12,419.75	14,580.94	12,194.90	47.54	46.99	-83.59	2,487.51	-1,169.41	1,996.81	1,902.80	94.02	21.239		
14,900.00	12,419.30	14,680.94	12,194.46	47.85	47.30	-83.59	2,587.50	-1,170.10	1,996.85	1,902.23	94.63	21.103		
15,000.00	12,418.85	14,780.94	12,194.02	48.17	47.62	-83.59	2,687.50	-1,170.80	1,996.89	1,901.64	95.26	20.963		
15,100.00	12,418.40	14,880.94	12,193.58	48.49	47.95	-83.59	2,787.50	-1,171.50	1,996.93	1,901.03	95.91	20.821		
15,200.00	12,417.95	14,980.94	12,193.14	48.83	48.29	-83.59	2,887.49	-1,172.20	1,996.98	1,900.40	96.58	20.677		
15,300.00	12,417.50	15,080.94	12,192.70	49.17	48.64	-83.59	2,987.49	-1,172.90	1,997.02	1,899.75	97.27	20.530		
15,400.00	12,417.05	15,180.94	12,192.26	49.53	49.00	-83.59	3,087.49	-1,173.60	1,997.06	1,899.08	97.98	20.382		
15,500.00	12,416.61	15,280.94	12,191.82	49.89	49.36	-83.59	3,187.48	-1,174.29	1,997.10	1,898.39	98.71	20.232		
15,600.00	12,416.16	15,380.94	12,191.38	50.26	49.74	-83.60	3,287.48	-1,174.99	1,997.14	1,897.69	99.45	20.081		
15,700.00	12,415.71	15,480.94	12,190.94	50.65	50.13	-83.60	3,387.48	-1,175.69	1,997.18	1,896.96	100.22	19.928		
15,800.00	12,415.26	15,580.94	12,190.50	51.04	50.52	-83.60	3,487.47	-1,176.39	1,997.22	1,896.22	101.00	19.775		
15,900.00	12,414.81	15,680.94	12,190.06	51.44	50.92	-83.60	3,587.47	-1,177.09	1,997.26	1,895.47	101.80	19.620		
16,000.00	12,414.36	15,780.94	12,189.62	51.84	51.33	-83.60	3,687.47	-1,177.79	1,997.31	1,894.69	102.61	19.465		
16,100.00	12,413.91	15,880.94	12,189.18	52.26	51.75	-83.60	3,787.46	-1,178.48	1,997.35	1,893.91	103.44	19.309		
16,200.00	12,413.46	15,980.94	12,188.74	52.68	52.18	-83.60	3,887.46	-1,179.18	1,997.39	1,893.10	104.29	19.153		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 323H - #323H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
16,300.00	12,413.01	16,080.94	12,188.30	53.11	52.61	-83.60	3,987.46	-1,179.88	1,997.43	1,892.28	105.15	18.996		
16,400.00	12,412.56	16,180.94	12,187.86	53.55	53.06	-83.60	4,087.45	-1,180.58	1,997.47	1,891.44	106.03	18.839		
16,500.00	12,412.11	16,280.94	12,187.42	53.99	53.50	-83.60	4,187.45	-1,181.28	1,997.51	1,890.59	106.92	18.683		
16,600.00	12,411.66	16,380.94	12,186.98	54.45	53.96	-83.60	4,287.45	-1,181.98	1,997.55	1,889.73	107.82	18.526		
16,700.00	12,411.21	16,480.94	12,186.54	54.91	54.42	-83.60	4,387.44	-1,182.68	1,997.60	1,888.85	108.74	18.370		
16,800.00	12,410.76	16,580.94	12,186.10	55.37	54.89	-83.60	4,487.44	-1,183.37	1,997.64	1,887.96	109.68	18.214		
16,900.00	12,410.31	16,680.94	12,185.67	55.84	55.37	-83.60	4,587.44	-1,184.07	1,997.68	1,887.06	110.62	18.059		
17,000.00	12,409.86	16,780.94	12,185.23	56.32	55.85	-83.60	4,687.43	-1,184.77	1,997.72	1,886.14	111.58	17.904		
17,100.00	12,409.41	16,880.94	12,184.79	56.81	56.34	-83.60	4,787.43	-1,185.47	1,997.76	1,885.21	112.55	17.750		
17,200.00	12,408.96	16,980.94	12,184.35	57.30	56.84	-83.60	4,887.43	-1,186.17	1,997.80	1,884.27	113.53	17.596		
17,300.00	12,408.51	17,080.94	12,183.91	57.80	57.34	-83.60	4,987.42	-1,186.87	1,997.84	1,883.31	114.53	17.444		
17,400.00	12,408.06	17,180.94	12,183.47	58.30	57.85	-83.60	5,087.42	-1,187.56	1,997.88	1,882.35	115.54	17.292		
17,500.00	12,407.61	17,280.94	12,183.03	58.81	58.36	-83.60	5,187.42	-1,188.26	1,997.93	1,881.37	116.56	17.141		
17,600.00	12,407.17	17,380.94	12,182.59	59.32	58.88	-83.60	5,287.41	-1,188.96	1,997.97	1,880.38	117.59	16.992		
17,700.00	12,406.72	17,480.94	12,182.15	59.84	59.40	-83.60	5,387.41	-1,189.66	1,998.01	1,879.38	118.63	16.843		
17,800.00	12,406.27	17,580.94	12,181.71	60.37	59.93	-83.60	5,487.41	-1,190.36	1,998.05	1,878.37	119.68	16.696		
17,900.00	12,405.82	17,680.94	12,181.27	60.90	60.46	-83.60	5,587.40	-1,191.06	1,998.09	1,877.35	120.74	16.549		
18,000.00	12,405.37	17,780.94	12,180.83	61.43	61.00	-83.61	5,687.40	-1,191.76	1,998.13	1,876.33	121.81	16.404		
18,100.00	12,404.92	17,880.94	12,180.39	61.97	61.55	-83.61	5,787.40	-1,192.45	1,998.17	1,875.29	122.89	16.260		
18,200.00	12,404.47	17,980.94	12,179.95	62.52	62.09	-83.61	5,887.39	-1,193.15	1,998.21	1,874.24	123.98	16.118		
18,300.00	12,404.02	18,080.94	12,179.51	63.07	62.65	-83.61	5,987.39	-1,193.85	1,998.26	1,873.18	125.07	15.977		
18,400.00	12,403.57	18,180.94	12,179.07	63.62	63.20	-83.61	6,087.38	-1,194.55	1,998.30	1,872.11	126.18	15.837		
18,500.00	12,403.12	18,280.94	12,178.63	64.18	63.77	-83.61	6,187.38	-1,195.25	1,998.34	1,871.04	127.30	15.698		
18,600.00	12,402.67	18,380.94	12,178.19	64.74	64.33	-83.61	6,287.38	-1,195.95	1,998.38	1,869.96	128.42	15.561		
18,700.00	12,402.22	18,480.94	12,177.75	65.31	64.90	-83.61	6,387.37	-1,196.64	1,998.42	1,868.87	129.56	15.425		
18,800.00	12,401.77	18,580.94	12,177.31	65.88	65.48	-83.61	6,487.37	-1,197.34	1,998.46	1,867.77	130.70	15.291		
18,900.00	12,401.32	18,680.94	12,176.87	66.45	66.05	-83.61	6,587.37	-1,198.04	1,998.50	1,866.66	131.85	15.158		
19,000.00	12,400.87	18,780.94	12,176.43	67.03	66.64	-83.61	6,687.36	-1,198.74	1,998.54	1,865.54	133.00	15.027		
19,100.00	12,400.42	18,880.94	12,175.99	67.61	67.22	-83.61	6,787.36	-1,199.44	1,998.59	1,864.42	134.16	14.896		
19,200.00	12,399.97	18,980.94	12,175.55	68.20	67.81	-83.61	6,887.36	-1,200.14	1,998.63	1,863.29	135.34	14.768		
19,300.00	12,399.52	19,080.94	12,175.11	68.79	68.40	-83.61	6,987.35	-1,200.84	1,998.67	1,862.16	136.51	14.641		
19,400.00	12,399.07	19,180.94	12,174.67	69.38	69.00	-83.61	7,087.35	-1,201.53	1,998.71	1,861.01	137.70	14.515		
19,500.00	12,398.62	19,280.94	12,174.23	69.98	69.60	-83.61	7,187.35	-1,202.23	1,998.75	1,859.86	138.89	14.391		
19,600.00	12,398.17	19,380.94	12,173.79	70.58	70.20	-83.61	7,287.34	-1,202.93	1,998.79	1,858.71	140.09	14.268		
19,700.00	12,397.73	19,480.94	12,173.35	71.18	70.81	-83.61	7,387.34	-1,203.63	1,998.83	1,857.54	141.29	14.147		
19,800.00	12,397.28	19,580.94	12,172.91	71.78	71.41	-83.61	7,487.34	-1,204.33	1,998.88	1,856.37	142.50	14.027		
19,900.00	12,396.83	19,680.94	12,172.47	72.39	72.03	-83.61	7,587.33	-1,205.03	1,998.92	1,855.20	143.72	13.909		
20,000.00	12,396.38	19,780.94	12,172.03	73.01	72.64	-83.61	7,687.33	-1,205.72	1,998.96	1,854.02	144.94	13.792		
20,100.00	12,395.93	19,880.94	12,171.59	73.62	73.26	-83.61	7,787.33	-1,206.42	1,999.00	1,852.83	146.17	13.676		
20,200.00	12,395.48	19,980.94	12,171.15	74.24	73.88	-83.61	7,887.32	-1,207.12	1,999.04	1,851.64	147.40	13.562		
20,300.00	12,395.03	20,080.94	12,170.71	74.86	74.50	-83.61	7,987.32	-1,207.82	1,999.08	1,850.44	148.64	13.449		
20,400.00	12,394.58	20,180.94	12,170.27	75.48	75.13	-83.62	8,087.32	-1,208.52	1,999.12	1,849.24	149.88	13.338		
20,500.00	12,394.13	20,280.94	12,169.83	76.11	75.75	-83.62	8,187.31	-1,209.22	1,999.16	1,848.03	151.13	13.228		
20,600.00	12,393.68	20,380.94	12,169.39	76.73	76.39	-83.62	8,287.31	-1,209.92	1,999.21	1,846.82	152.39	13.119		
20,700.00	12,393.23	20,480.94	12,168.95	77.36	77.02	-83.62	8,387.31	-1,210.61	1,999.25	1,845.60	153.65	13.012		
20,800.00	12,392.78	20,580.94	12,168.51	78.00	77.65	-83.62	8,487.30	-1,211.31	1,999.29	1,844.38	154.91	12.906		
20,900.00	12,392.33	20,680.94	12,168.07	78.63	78.29	-83.62	8,587.30	-1,212.01	1,999.33	1,843.15	156.18	12.801		
21,000.00	12,391.88	20,780.94	12,167.63	79.27	78.93	-83.62	8,687.30	-1,212.71	1,999.37	1,841.92	157.45	12.698		
21,100.00	12,391.43	20,880.94	12,167.19	79.91	79.57	-83.62	8,787.29	-1,213.41	1,999.41	1,840.68	158.73	12.596		
21,200.00	12,390.98	20,980.94	12,166.75	80.55	80.22	-83.62	8,887.29	-1,214.11	1,999.45	1,839.44	160.01	12.495		
21,300.00	12,390.53	21,080.94	12,166.31	81.20	80.87	-83.62	8,987.29	-1,214.80	1,999.49	1,838.19	161.30	12.396		
21,400.00	12,390.08	21,180.94	12,165.87	81.84	81.51	-83.62	9,087.28	-1,215.50	1,999.54	1,836.94	162.59	12.298		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													A05_Wild Salsa - Wild Salsa Fed Com 323H - #323H - ADP - Rev1		Offset Site Error:		0.00 usft	
Survey Program: 0-MWD+IFR1+SAG+MS													Offset Well Error:		0.00 usft			
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation							
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor						
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)							
21,500.00	12,389.63	21,280.94	12,165.43	82.49	82.17	-83.62	9,187.28	-1,216.20	1,999.58	1,835.69	163.89	12.201						
21,600.00	12,389.18	21,380.94	12,164.99	83.14	82.82	-83.62	9,287.28	-1,216.90	1,999.62	1,834.43	165.18	12.105						
21,700.00	12,388.73	21,480.94	12,164.55	83.79	83.47	-83.62	9,387.27	-1,217.60	1,999.66	1,833.17	166.49	12.011						
21,800.00	12,388.29	21,580.94	12,164.11	84.45	84.13	-83.62	9,487.27	-1,218.30	1,999.70	1,831.91	167.79	11.918						
21,900.00	12,387.84	21,680.94	12,163.67	85.10	84.79	-83.62	9,587.27	-1,219.00	1,999.74	1,830.64	169.10	11.826						
22,000.00	12,387.39	21,780.94	12,163.23	85.76	85.45	-83.62	9,687.26	-1,219.69	1,999.78	1,829.37	170.42	11.735						
22,100.00	12,386.94	21,880.94	12,162.79	86.42	86.11	-83.62	9,787.26	-1,220.39	1,999.82	1,828.09	171.73	11.645						
22,200.00	12,386.49	21,980.94	12,162.35	87.08	86.77	-83.62	9,887.26	-1,221.09	1,999.87	1,826.81	173.05	11.556						
22,300.00	12,386.04	22,080.94	12,161.91	87.74	87.44	-83.62	9,987.25	-1,221.79	1,999.91	1,825.53	174.38	11.469						
22,400.00	12,385.59	22,180.94	12,161.47	88.41	88.11	-83.62	10,087.25	-1,222.49	1,999.95	1,824.24	175.71	11.382						
22,500.00	12,385.14	22,280.94	12,161.03	89.08	88.77	-83.62	10,187.24	-1,223.19	1,999.99	1,822.95	177.04	11.297						
22,600.00	12,384.69	22,380.94	12,160.59	89.74	89.44	-83.62	10,287.24	-1,223.88	2,000.03	1,821.66	178.37	11.213						
22,700.00	12,384.24	22,480.94	12,160.15	90.41	90.12	-83.62	10,387.24	-1,224.58	2,000.07	1,820.37	179.71	11.130						
22,800.00	12,383.79	22,580.94	12,159.71	91.08	90.79	-83.63	10,487.23	-1,225.28	2,000.11	1,819.07	181.05	11.048						
22,900.00	12,383.34	22,680.94	12,159.27	91.76	91.46	-83.63	10,587.23	-1,225.98	2,000.15	1,817.77	182.39	10.967						
23,000.00	12,382.89	22,780.94	12,158.83	92.43	92.14	-83.63	10,687.23	-1,226.68	2,000.20	1,816.46	183.73	10.886						
23,100.00	12,382.44	22,880.94	12,158.39	93.11	92.82	-83.63	10,787.22	-1,227.38	2,000.24	1,815.16	185.08	10.807						
23,200.00	12,381.99	22,980.94	12,157.95	93.78	93.50	-83.63	10,887.22	-1,228.07	2,000.28	1,813.85	186.43	10.729						
23,300.00	12,381.54	23,080.94	12,157.51	94.46	94.18	-83.63	10,987.22	-1,228.77	2,000.32	1,812.53	187.79	10.652						
23,400.00	12,381.09	23,180.94	12,157.07	95.14	94.86	-83.63	11,087.21	-1,229.47	2,000.36	1,811.22	189.14	10.576						
23,420.60	12,381.00	23,201.53	12,156.98	95.28	95.00	-83.63	11,107.81	-1,229.62	2,000.37	1,810.95	189.42	10.560						
23,500.00	12,380.64	23,280.94	12,156.63	95.82	95.54	-83.63	11,187.21	-1,230.17	2,000.40	1,809.90	190.50	10.501						
23,510.60	12,380.60	23,287.87	12,156.60	95.89	95.59	-83.63	11,194.14	-1,230.22	2,000.41	1,809.79	190.62	10.494						

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
300.00	300.00	300.00	300.00	0.85	0.85	-90.50	-0.22	-24.97	24.97	23.27	1.70	14.665		
400.00	400.00	400.00	400.00	1.21	1.21	-90.50	-0.22	-24.97	24.97	22.55	2.42	10.320		
500.00	500.00	500.00	500.00	1.57	1.57	-90.50	-0.22	-24.97	24.97	21.83	3.14	7.961		
600.00	600.00	600.00	600.00	1.93	1.93	-90.50	-0.22	-24.97	24.97	21.12	3.85	6.480		
700.00	700.00	700.00	700.00	2.29	2.29	-90.50	-0.22	-24.97	24.97	20.40	4.57	5.463		
800.00	800.00	800.00	800.00	2.64	2.64	-90.50	-0.22	-24.97	24.97	19.68	5.29	4.723		
900.00	900.00	900.00	900.00	3.00	3.00	-90.50	-0.22	-24.97	24.97	18.97	6.00	4.159		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-90.50	-0.22	-24.97	24.97	18.25	6.72	3.715		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-90.50	-0.22	-24.97	24.97	17.53	7.44	3.357		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-90.50	-0.22	-24.97	24.97	16.82	8.16	3.062		
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-90.50	-0.22	-24.97	24.97	16.10	8.87	2.815		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-90.50	-0.22	-24.97	24.97	15.38	9.59	2.604		
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-90.50	-0.22	-24.97	24.97	14.66	10.31	2.423		
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-90.50	-0.22	-24.97	24.97	13.95	11.02	2.265		
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-90.50	-0.22	-24.97	24.97	13.23	11.74	2.127		
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-90.50	-0.22	-24.97	24.97	12.51	12.46	2.005		
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-90.50	-0.22	-24.97	24.97	11.80	13.17	1.895		
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-90.50	-0.22	-24.97	24.97	11.08	13.89	1.798 CC, ES, SF		
2,100.00	2,099.99	2,099.99	2,099.99	7.30	7.30	179.52	-0.22	-24.97	26.28	11.68	14.60	1.800		
2,200.00	2,199.91	2,199.91	2,199.91	7.64	7.66	179.58	-0.22	-24.97	30.21	14.91	15.30	1.974		
2,300.00	2,299.69	2,299.69	2,299.69	7.98	8.02	179.66	-0.22	-24.97	36.75	20.75	16.00	2.297		
2,400.00	2,399.27	2,399.27	2,399.27	8.33	8.38	179.72	-0.22	-24.97	45.90	29.20	16.70	2.748		
2,500.00	2,498.57	2,498.57	2,498.57	8.68	8.73	179.78	-0.22	-24.97	57.65	40.25	17.40	3.313		
2,582.11	2,579.86	2,579.86	2,579.86	8.96	9.02	179.82	-0.22	-24.97	69.24	51.27	17.97	3.853		
2,600.00	2,597.54	2,597.54	2,597.54	9.03	9.09	179.82	-0.22	-24.97	71.96	53.86	18.10	3.976		
2,700.00	2,696.38	2,696.38	2,696.38	9.38	9.44	179.85	-0.22	-24.97	87.14	68.34	18.79	4.637		
2,800.00	2,795.22	2,795.22	2,795.22	9.73	9.80	179.88	-0.22	-24.97	102.32	82.83	19.49	5.250		
2,900.00	2,894.07	2,894.07	2,894.07	10.09	10.15	179.89	-0.22	-24.97	117.50	97.31	20.19	5.821		
3,000.00	2,992.91	2,992.91	2,992.91	10.44	10.50	179.90	-0.22	-24.97	132.68	111.79	20.89	6.353		
3,100.00	3,091.75	3,091.75	3,091.75	10.80	10.86	179.91	-0.22	-24.97	147.86	126.27	21.58	6.850		
3,200.00	3,190.59	3,190.59	3,190.59	11.16	11.21	179.92	-0.22	-24.97	163.04	140.76	22.29	7.316		
3,300.00	3,289.43	3,289.43	3,289.43	11.52	11.57	179.93	-0.22	-24.97	178.22	155.23	22.99	7.753		
3,400.00	3,388.27	3,388.27	3,388.27	11.88	11.92	179.93	-0.22	-24.97	193.40	169.71	23.69	8.164		
3,500.00	3,487.11	3,487.11	3,487.11	12.24	12.28	179.94	-0.22	-24.97	208.58	184.19	24.39	8.552		
3,600.00	3,585.95	3,585.95	3,585.95	12.60	12.63	179.94	-0.22	-24.97	223.76	198.67	25.09	8.917		
3,700.00	3,684.79	3,684.79	3,684.79	12.96	12.98	179.95	-0.22	-24.97	238.94	213.15	25.80	9.262		
3,800.00	3,783.63	3,783.63	3,783.63	13.32	13.34	179.95	-0.22	-24.97	254.12	227.62	26.50	9.589		
3,900.00	3,882.48	3,882.48	3,882.48	13.68	13.69	179.95	-0.22	-24.97	269.31	242.10	27.21	9.899		
4,000.00	3,981.32	3,981.32	3,981.32	14.05	14.05	179.96	-0.22	-24.97	284.49	256.58	27.91	10.193		
4,100.00	4,080.16	4,080.16	4,080.16	14.41	14.40	179.96	-0.22	-24.97	299.67	271.05	28.62	10.472		
4,200.00	4,179.00	4,179.00	4,179.00	14.78	14.76	179.96	-0.22	-24.97	314.85	285.53	29.32	10.738		
4,300.00	4,277.84	4,277.84	4,277.84	15.14	15.11	179.96	-0.22	-24.97	330.03	300.00	30.03	10.991		
4,400.00	4,376.68	4,376.68	4,376.68	15.51	15.47	179.96	-0.22	-24.97	345.21	314.48	30.73	11.232		
4,500.00	4,475.52	4,475.52	4,475.52	15.87	15.82	179.96	-0.22	-24.97	360.39	328.95	31.44	11.463		
4,600.00	4,574.36	4,574.36	4,574.36	16.24	16.17	179.97	-0.22	-24.97	375.57	343.42	32.15	11.683		
4,700.00	4,673.20	4,673.20	4,673.20	16.60	16.53	179.97	-0.22	-24.97	390.75	357.90	32.85	11.893		
4,800.00	4,772.04	4,772.04	4,772.04	16.97	16.88	179.97	-0.22	-24.97	405.93	372.37	33.56	12.095		
4,900.00	4,870.89	4,870.89	4,870.89	17.34	17.24	179.97	-0.22	-24.97	421.11	386.84	34.27	12.288		
5,000.00	4,969.73	4,969.73	4,969.73	17.70	17.59	179.97	-0.22	-24.97	436.29	401.32	34.98	12.474		
5,100.00	5,068.57	5,068.57	5,068.57	18.07	17.95	179.97	-0.22	-24.97	451.47	415.79	35.69	12.651		
5,200.00	5,167.41	5,167.41	5,167.41	18.44	18.30	179.97	-0.22	-24.97	466.66	430.26	36.39	12.822		
5,300.00	5,266.25	5,266.25	5,266.25	18.81	18.65	179.97	-0.22	-24.97	481.84	444.73	37.10	12.987		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
5,400.00	5,365.09	5,365.09	5,365.09	19.17	19.01	179.97	-0.22	-24.97	497.02	459.21	37.81	13.145		
5,500.00	5,463.93	5,463.93	5,463.93	19.54	19.36	179.98	-0.22	-24.97	512.20	473.68	38.52	13.297		
5,600.00	5,562.77	5,562.77	5,562.77	19.91	19.72	179.98	-0.22	-24.97	527.38	488.15	39.23	13.444		
5,700.00	5,661.61	5,661.61	5,661.61	20.28	20.07	179.98	-0.22	-24.97	542.56	502.62	39.94	13.585		
5,800.00	5,760.45	5,760.45	5,760.45	20.65	20.43	179.98	-0.22	-24.97	557.74	517.09	40.65	13.722		
5,900.00	5,859.30	5,859.30	5,859.30	21.02	20.78	179.98	-0.22	-24.97	572.92	531.56	41.36	13.853		
6,000.00	5,958.14	5,958.14	5,958.14	21.38	21.13	179.98	-0.22	-24.97	588.10	546.04	42.07	13.980		
6,100.00	6,056.98	6,056.98	6,056.98	21.75	21.49	179.98	-0.22	-24.97	603.28	560.51	42.78	14.103		
6,200.00	6,155.82	6,155.82	6,155.82	22.12	21.84	179.98	-0.22	-24.97	618.46	574.98	43.49	14.222		
6,300.00	6,254.66	6,254.66	6,254.66	22.49	22.20	179.98	-0.22	-24.97	633.64	589.45	44.20	14.337		
6,400.00	6,353.50	6,353.50	6,353.50	22.86	22.55	179.98	-0.22	-24.97	648.82	603.92	44.91	14.449		
6,500.00	6,452.34	6,452.34	6,452.34	23.23	22.91	179.98	-0.22	-24.97	664.01	618.39	45.62	14.557		
6,600.00	6,551.18	6,551.18	6,551.18	23.60	23.26	179.98	-0.22	-24.97	679.19	632.86	46.33	14.661		
6,700.00	6,650.02	6,650.02	6,650.02	23.97	23.61	179.98	-0.22	-24.97	694.37	647.33	47.04	14.762		
6,800.00	6,748.86	6,748.86	6,748.86	24.34	23.97	179.98	-0.22	-24.97	709.55	661.80	47.75	14.861		
6,900.00	6,847.71	6,847.71	6,847.71	24.71	24.32	179.98	-0.22	-24.97	724.73	676.27	48.46	14.956		
7,000.00	6,946.55	6,946.55	6,946.55	25.08	24.68	179.98	-0.22	-24.97	739.91	690.74	49.17	15.049		
7,100.00	7,045.39	7,045.39	7,045.39	25.45	25.03	179.98	-0.22	-24.97	755.09	705.21	49.88	15.138		
7,200.00	7,144.23	7,144.23	7,144.23	25.82	25.39	179.98	-0.22	-24.97	770.27	719.68	50.59	15.226		
7,300.00	7,243.07	7,243.07	7,243.07	26.19	25.74	179.98	-0.22	-24.97	785.45	734.15	51.30	15.311		
7,400.00	7,341.91	7,341.91	7,341.91	26.56	26.09	179.98	-0.22	-24.97	800.63	748.62	52.01	15.393		
7,500.00	7,440.75	7,440.75	7,440.75	26.93	26.45	179.98	-0.22	-24.97	815.81	763.09	52.72	15.474		
7,600.00	7,539.59	7,539.59	7,539.59	27.30	26.80	179.98	-0.22	-24.97	830.99	777.56	53.43	15.552		
7,700.00	7,638.43	7,638.43	7,638.43	27.67	27.16	179.98	-0.22	-24.97	846.17	792.03	54.15	15.628		
7,800.00	7,737.27	7,737.27	7,737.27	28.04	27.51	179.99	-0.22	-24.97	861.36	806.50	54.86	15.702		
7,900.00	7,836.12	7,836.12	7,836.12	28.41	27.87	179.99	-0.22	-24.97	876.54	820.97	55.57	15.774		
8,000.00	7,934.96	7,934.96	7,934.96	28.78	28.22	179.99	-0.22	-24.97	891.72	835.44	56.28	15.844		
8,086.18	8,020.14	8,020.14	8,020.14	29.10	28.53	179.99	-0.22	-24.97	904.80	847.91	56.89	15.903		
8,100.00	8,033.80	8,033.80	8,033.80	29.15	28.57	179.99	-0.22	-24.97	906.87	849.88	56.99	15.912		
8,200.00	8,132.88	8,132.88	8,132.88	29.52	28.93	179.99	-0.22	-24.97	920.40	862.70	57.70	15.950		
8,300.00	8,232.28	8,232.28	8,232.28	29.88	29.29	179.99	-0.22	-24.97	931.33	872.91	58.42	15.942		
8,400.00	8,331.93	8,331.93	8,331.93	30.24	29.64	179.99	-0.22	-24.97	939.65	880.52	59.13	15.891		
8,500.00	8,431.76	8,431.76	8,431.76	30.60	30.00	179.99	-0.22	-24.97	945.36	885.52	59.85	15.796		
8,600.00	8,531.71	8,531.71	8,531.71	30.95	30.36	179.99	-0.22	-24.97	948.46	887.90	60.56	15.661		
8,668.29	8,600.00	8,600.00	8,600.00	31.19	30.60	-90.02	-0.22	-24.97	949.07	888.03	61.04	15.548		
8,678.86	8,610.57	8,610.57	8,610.57	31.22	30.64	-90.02	-0.22	-24.97	949.07	887.95	61.12	15.529		
8,700.00	8,631.71	8,631.71	8,631.71	31.30	30.72	-90.02	-0.22	-24.97	949.07	887.80	61.27	15.491		
8,800.00	8,731.71	8,731.71	8,731.71	31.64	31.08	-90.02	-0.22	-24.97	949.07	887.10	61.97	15.316		
8,900.00	8,831.71	8,831.71	8,831.71	31.98	31.44	-90.02	-0.22	-24.97	949.07	886.40	62.67	15.144		
9,000.00	8,931.71	8,931.71	8,931.71	32.32	31.79	-90.02	-0.22	-24.97	949.07	885.70	63.37	14.976		
9,100.00	9,031.71	9,031.71	9,031.71	32.66	32.15	-90.02	-0.22	-24.97	949.07	884.99	64.08	14.812		
9,200.00	9,131.71	9,131.71	9,131.71	33.01	32.51	-90.02	-0.22	-24.97	949.07	884.29	64.78	14.651		
9,300.00	9,231.71	9,231.71	9,231.71	33.35	32.87	-90.02	-0.22	-24.97	949.07	883.59	65.48	14.493		
9,400.00	9,331.71	9,331.71	9,331.71	33.69	33.23	-90.02	-0.22	-24.97	949.07	882.88	66.19	14.339		
9,500.00	9,431.71	9,431.71	9,431.71	34.04	33.59	-90.02	-0.22	-24.97	949.07	882.18	66.89	14.188		
9,600.00	9,531.71	9,531.71	9,531.71	34.38	33.94	-90.02	-0.22	-24.97	949.07	881.47	67.60	14.040		
9,700.00	9,631.71	9,631.71	9,631.71	34.73	34.30	-90.02	-0.22	-24.97	949.07	880.77	68.30	13.895		
9,800.00	9,731.71	9,731.71	9,731.71	35.07	34.66	-90.02	-0.22	-24.97	949.07	880.06	69.01	13.753		
9,900.00	9,831.71	9,831.71	9,831.71	35.42	35.02	-90.02	-0.22	-24.97	949.07	879.36	69.71	13.614		
10,000.00	9,931.71	9,931.71	9,931.71	35.76	35.38	-90.02	-0.22	-24.97	949.07	878.65	70.42	13.478		
10,100.00	10,031.71	10,031.71	10,031.71	36.11	35.74	-90.02	-0.22	-24.97	949.07	877.95	71.12	13.344		
10,200.00	10,131.71	10,131.71	10,131.71	36.45	36.10	-90.02	-0.22	-24.97	949.07	877.24	71.83	13.213		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
10,300.00	10,231.71	10,231.71	10,231.71	36.80	36.45	-90.02	-0.22	-24.97	949.07	876.53	72.54	13.084		
10,400.00	10,331.71	10,331.71	10,331.71	37.14	36.81	-90.02	-0.22	-24.97	949.07	875.83	73.24	12.958		
10,500.00	10,431.71	10,431.71	10,431.71	37.49	37.17	-90.02	-0.22	-24.97	949.07	875.12	73.95	12.834		
10,600.00	10,531.71	10,531.71	10,531.71	37.84	37.53	-90.02	-0.22	-24.97	949.07	874.41	74.66	12.713		
10,700.00	10,631.71	10,631.71	10,631.71	38.18	37.89	-90.02	-0.22	-24.97	949.07	873.71	75.36	12.593		
10,800.00	10,731.71	10,731.71	10,731.71	38.53	38.25	-90.02	-0.22	-24.97	949.07	873.00	76.07	12.476		
10,900.00	10,831.71	10,831.71	10,831.71	38.88	38.60	-90.02	-0.22	-24.97	949.07	872.29	76.78	12.361		
11,000.00	10,931.71	10,931.71	10,931.71	39.23	38.96	-90.02	-0.22	-24.97	949.07	871.59	77.48	12.248		
11,100.00	11,031.71	11,031.71	11,031.71	39.57	39.32	-90.02	-0.22	-24.97	949.07	870.88	78.19	12.138		
11,200.00	11,131.71	11,131.71	11,131.71	39.92	39.68	-90.02	-0.22	-24.97	949.07	870.17	78.90	12.029		
11,300.00	11,231.71	11,231.71	11,231.71	40.27	40.04	-90.02	-0.22	-24.97	949.07	869.46	79.61	11.922		
11,400.00	11,331.71	11,331.71	11,331.71	40.62	40.40	-90.02	-0.22	-24.97	949.07	868.75	80.32	11.817		
11,500.00	11,431.71	11,431.71	11,431.71	40.97	40.76	-90.02	-0.22	-24.97	949.07	868.05	81.03	11.713		
11,600.00	11,531.71	11,531.71	11,531.71	41.32	41.11	-90.02	-0.22	-24.97	949.07	867.34	81.73	11.612		
11,700.00	11,631.71	11,631.71	11,631.71	41.66	41.47	-90.02	-0.22	-24.97	949.07	866.63	82.44	11.512		
11,800.00	11,731.71	11,731.71	11,731.71	42.01	41.83	-90.02	-0.22	-24.97	949.07	865.92	83.15	11.414		
11,900.00	11,831.71	11,924.29	11,919.44	42.36	42.50	-87.86	35.16	-15.42	944.26	860.14	84.13	11.224		
12,000.00	11,931.71	12,072.63	12,045.43	42.71	42.93	-83.20	109.69	4.68	932.89	848.09	84.80	11.001		
12,012.62	11,944.33	12,087.43	12,056.55	42.76	42.97	-82.60	119.11	7.23	931.36	846.47	84.89	10.972		
12,025.00	11,956.71	12,101.31	12,066.70	42.80	43.00	-67.00	128.25	9.69	929.82	844.84	84.98	10.942		
12,050.00	11,981.67	12,128.05	12,085.46	42.89	43.07	-66.25	146.64	14.66	926.42	841.26	85.15	10.880		
12,075.00	12,006.53	12,153.21	12,102.11	42.97	43.13	-65.60	164.85	19.57	922.64	837.32	85.33	10.813		
12,100.00	12,031.22	12,177.01	12,116.92	43.06	43.18	-65.03	182.83	24.42	918.52	833.02	85.50	10.743		
12,125.00	12,055.67	12,199.60	12,130.11	43.14	43.22	-64.54	200.53	29.20	914.05	828.40	85.66	10.671		
12,150.00	12,079.82	12,221.14	12,141.87	43.22	43.27	-64.12	217.96	33.90	909.27	823.46	85.81	10.596		
12,175.00	12,103.60	12,241.74	12,152.34	43.30	43.30	-63.77	235.09	38.52	904.17	818.22	85.95	10.520		
12,200.00	12,126.93	12,261.53	12,161.66	43.38	43.34	-63.49	251.93	43.07	898.77	812.70	86.07	10.443		
12,225.00	12,149.77	12,280.59	12,169.96	43.45	43.37	-63.26	268.50	47.54	893.07	806.90	86.17	10.364		
12,250.00	12,172.05	12,299.00	12,177.31	43.52	43.40	-63.09	284.80	51.93	887.09	800.84	86.25	10.285		
12,275.00	12,193.70	12,316.85	12,183.81	43.59	43.42	-62.98	300.84	56.26	880.83	794.52	86.31	10.205		
12,300.00	12,214.67	12,334.18	12,189.53	43.65	43.44	-62.93	316.64	60.53	874.30	787.95	86.35	10.125		
12,325.00	12,234.89	12,351.07	12,194.53	43.71	43.46	-62.92	332.22	64.73	867.51	781.15	86.37	10.044		
12,350.00	12,254.33	12,367.56	12,198.85	43.77	43.48	-62.96	347.57	68.87	860.46	774.11	86.36	9.964		
12,375.00	12,272.91	12,383.68	12,202.54	43.82	43.50	-63.05	362.73	72.96	853.17	766.84	86.33	9.883		
12,400.00	12,290.59	12,400.00	12,205.74	43.87	43.51	-63.17	378.18	77.13	845.63	759.35	86.28	9.801		
12,425.00	12,307.32	12,415.03	12,208.20	43.91	43.53	-63.37	392.49	80.99	837.85	751.65	86.20	9.720		
12,450.00	12,323.05	12,430.31	12,210.22	43.95	43.54	-63.60	407.11	84.94	829.85	743.75	86.11	9.638		
12,475.00	12,337.75	12,445.37	12,211.74	43.98	43.55	-63.87	421.58	88.84	821.63	735.64	85.99	9.555		
12,500.00	12,351.37	12,460.24	12,212.77	44.01	43.55	-64.18	435.90	92.70	813.20	727.34	85.86	9.471		
12,512.62	12,357.83	12,467.68	12,213.11	44.03	43.56	-64.36	443.08	94.64	808.86	723.08	85.78	9.429		
12,525.00	12,363.89	12,475.00	12,213.34	44.04	43.56	-64.97	450.14	96.55	804.63	718.92	85.71	9.388		
12,550.00	12,375.38	12,488.25	12,213.46	44.06	43.57	-66.16	462.93	100.00	796.37	710.83	85.54	9.310		
12,575.00	12,385.81	12,500.00	12,213.40	44.08	43.57	-67.28	474.29	103.02	788.53	703.16	85.37	9.236		
12,600.00	12,395.16	12,518.95	12,213.31	44.10	43.58	-68.04	492.64	107.76	781.07	695.86	85.21	9.167		
12,625.00	12,403.40	12,534.46	12,213.24	44.11	43.59	-68.85	507.69	111.49	774.01	688.96	85.05	9.101		
12,650.00	12,410.52	12,550.47	12,213.17	44.12	43.59	-69.59	523.26	115.23	767.34	682.44	84.90	9.038		
12,675.00	12,416.49	12,566.94	12,213.09	44.13	43.60	-70.25	539.30	118.93	761.04	676.28	84.76	8.979		
12,700.00	12,421.30	12,583.81	12,213.01	44.14	43.61	-70.85	555.78	122.57	755.11	670.47	84.64	8.921		
12,725.00	12,424.93	12,600.00	12,212.93	44.14	43.62	-71.43	571.61	125.94	749.55	665.00	84.54	8.866		
12,750.00	12,427.37	12,618.55	12,212.84	44.14	43.63	-71.93	589.79	129.63	744.34	659.87	84.47	8.812		
12,775.00	12,428.61	12,636.30	12,212.76	44.14	43.64	-72.41	607.22	132.99	739.49	655.07	84.43	8.759		
12,790.87	12,428.78	12,647.67	12,212.70	44.14	43.64	-72.71	618.40	135.06	736.60	652.19	84.41	8.726		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
12,800.00	12,428.74	12,654.22	12,212.67	44.14	43.65	-72.68	624.85	136.22	735.00	650.59	84.41	8.708		
12,900.00	12,428.29	12,726.58	12,212.33	44.14	43.69	-72.39	696.30	147.58	719.39	635.01	84.38	8.526		
13,000.00	12,427.84	12,800.00	12,211.98	44.14	43.75	-72.16	769.19	156.34	707.40	623.01	84.40	8.382		
13,100.00	12,427.39	12,873.51	12,211.63	44.14	43.81	-72.00	842.46	162.29	699.07	614.61	84.46	8.277		
13,200.00	12,426.94	12,947.67	12,211.28	44.18	43.87	-71.91	916.55	165.43	694.43	609.85	84.57	8.211		
13,276.05	12,426.60	13,004.29	12,211.01	44.26	43.92	-71.88	973.16	165.90	693.37	608.68	84.69	8.187		
13,300.00	12,426.50	13,028.12	12,210.90	44.29	43.95	-71.88	996.99	165.74	693.37	608.63	84.74	8.182		
13,400.00	12,426.05	13,128.12	12,210.42	44.42	44.06	-71.88	1,096.98	165.07	693.39	608.43	84.96	8.162		
13,500.00	12,425.60	13,228.12	12,209.95	44.57	44.17	-71.88	1,196.98	164.41	693.40	608.20	85.20	8.139		
13,600.00	12,425.15	13,328.12	12,209.48	44.73	44.31	-71.88	1,296.98	163.74	693.42	607.95	85.47	8.113		
13,700.00	12,424.70	13,428.12	12,209.00	44.90	44.45	-71.88	1,396.97	163.08	693.44	607.68	85.76	8.086		
13,800.00	12,424.25	13,528.12	12,208.53	45.08	44.61	-71.88	1,496.97	162.41	693.45	607.38	86.08	8.056		
13,900.00	12,423.80	13,628.12	12,208.06	45.28	44.78	-71.87	1,596.97	161.74	693.47	607.05	86.42	8.024		
14,000.00	12,423.35	13,728.12	12,207.58	45.48	44.96	-71.87	1,696.96	161.08	693.49	606.70	86.78	7.991		
14,100.00	12,422.90	13,828.12	12,207.11	45.70	45.16	-71.87	1,796.96	160.41	693.50	606.33	87.17	7.955		
14,200.00	12,422.45	13,928.12	12,206.64	45.93	45.36	-71.87	1,896.96	159.75	693.52	605.93	87.59	7.918		
14,300.00	12,422.00	14,028.12	12,206.16	46.17	45.58	-71.87	1,996.95	159.08	693.54	605.51	88.02	7.879		
14,400.00	12,421.55	14,128.12	12,205.69	46.43	45.81	-71.87	2,096.95	158.42	693.55	605.07	88.48	7.838		
14,500.00	12,421.10	14,228.12	12,205.22	46.69	46.06	-71.86	2,196.95	157.75	693.57	604.61	88.96	7.796		
14,600.00	12,420.65	14,328.12	12,204.74	46.96	46.31	-71.86	2,296.94	157.08	693.59	604.12	89.46	7.753		
14,700.00	12,420.20	14,428.12	12,204.27	47.25	46.58	-71.86	2,396.94	156.42	693.60	603.62	89.99	7.708		
14,800.00	12,419.75	14,528.12	12,203.80	47.54	46.85	-71.86	2,496.94	155.75	693.62	603.09	90.53	7.661		
14,900.00	12,419.30	14,628.12	12,203.32	47.85	47.14	-71.86	2,596.93	155.09	693.64	602.54	91.10	7.614		
15,000.00	12,418.85	14,728.12	12,202.85	48.17	47.44	-71.86	2,696.93	154.42	693.65	601.97	91.69	7.565		
15,100.00	12,418.40	14,828.12	12,202.38	48.49	47.75	-71.85	2,796.93	153.76	693.67	601.38	92.29	7.516		
15,200.00	12,417.95	14,928.12	12,201.90	48.83	48.07	-71.85	2,896.92	153.09	693.69	600.77	92.92	7.465		
15,300.00	12,417.50	15,028.12	12,201.43	49.17	48.40	-71.85	2,996.92	152.42	693.70	600.14	93.57	7.414		
15,400.00	12,417.05	15,128.12	12,200.96	49.53	48.74	-71.85	3,096.92	151.76	693.72	599.49	94.23	7.362		
15,500.00	12,416.61	15,228.12	12,200.48	49.89	49.08	-71.85	3,196.91	151.09	693.74	598.82	94.91	7.309		
15,600.00	12,416.16	15,328.12	12,200.01	50.26	49.44	-71.85	3,296.91	150.43	693.76	598.14	95.62	7.256		
15,700.00	12,415.71	15,428.12	12,199.54	50.65	49.81	-71.84	3,396.91	149.76	693.77	597.44	96.33	7.202		
15,800.00	12,415.26	15,528.12	12,199.06	51.04	50.19	-71.84	3,496.90	149.10	693.79	596.72	97.07	7.147		
15,900.00	12,414.81	15,628.12	12,198.59	51.44	50.57	-71.84	3,596.90	148.43	693.81	595.98	97.82	7.092		
16,000.00	12,414.36	15,728.12	12,198.12	51.84	50.96	-71.84	3,696.90	147.76	693.82	595.23	98.59	7.037		
16,100.00	12,413.91	15,828.12	12,197.64	52.26	51.37	-71.84	3,796.89	147.10	693.84	594.46	99.38	6.982		
16,200.00	12,413.46	15,928.12	12,197.17	52.68	51.78	-71.84	3,896.89	146.43	693.86	593.68	100.18	6.926		
16,300.00	12,413.01	16,028.12	12,196.70	53.11	52.20	-71.84	3,996.89	145.77	693.87	592.88	101.00	6.870		
16,400.00	12,412.56	16,128.12	12,196.22	53.55	52.62	-71.83	4,096.88	145.10	693.89	592.06	101.83	6.814		
16,500.00	12,412.11	16,228.12	12,195.75	53.99	53.06	-71.83	4,196.88	144.44	693.91	591.23	102.68	6.758		
16,600.00	12,411.66	16,328.12	12,195.28	54.45	53.50	-71.83	4,296.88	143.77	693.92	590.39	103.54	6.702		
16,700.00	12,411.21	16,428.12	12,194.80	54.91	53.95	-71.83	4,396.87	143.10	693.94	589.53	104.41	6.646		
16,800.00	12,410.76	16,528.12	12,194.33	55.37	54.40	-71.83	4,496.87	142.44	693.96	588.66	105.30	6.590		
16,900.00	12,410.31	16,628.12	12,193.86	55.84	54.86	-71.83	4,596.87	141.77	693.97	587.77	106.20	6.534		
17,000.00	12,409.86	16,728.12	12,193.38	56.32	55.33	-71.82	4,696.86	141.11	693.99	586.87	107.12	6.479		
17,100.00	12,409.41	16,828.12	12,192.91	56.81	55.81	-71.82	4,796.86	140.44	694.01	585.96	108.04	6.423		
17,200.00	12,408.96	16,928.12	12,192.44	57.30	56.29	-71.82	4,896.86	139.78	694.02	585.04	108.98	6.368		
17,300.00	12,408.51	17,028.12	12,191.96	57.80	56.78	-71.82	4,996.85	139.11	694.04	584.11	109.93	6.313		
17,400.00	12,408.06	17,128.12	12,191.49	58.30	57.28	-71.82	5,096.85	138.44	694.06	583.16	110.90	6.259		
17,500.00	12,407.61	17,228.12	12,191.02	58.81	57.78	-71.82	5,196.85	137.78	694.07	582.20	111.87	6.204		
17,600.00	12,407.17	17,328.12	12,190.54	59.32	58.28	-71.81	5,296.84	137.11	694.09	581.23	112.86	6.150		
17,700.00	12,406.72	17,428.12	12,190.07	59.84	58.80	-71.81	5,396.84	136.45	694.11	580.26	113.85	6.097		
17,800.00	12,406.27	17,528.12	12,189.60	60.37	59.31	-71.81	5,496.84	135.78	694.12	579.27	114.86	6.043		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 324H - #324H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
17,900.00	12,405.82	17,628.12	12,189.12	60.90	59.84	-71.81	5,596.83	135.12	694.14	578.27	115.88	5.990		
18,000.00	12,405.37	17,728.12	12,188.65	61.43	60.36	-71.81	5,696.83	134.45	694.16	577.26	116.90	5.938		
18,100.00	12,404.92	17,828.12	12,188.18	61.97	60.90	-71.81	5,796.83	133.78	694.18	576.24	117.94	5.886		
18,200.00	12,404.47	17,928.12	12,187.70	62.52	61.44	-71.80	5,896.82	133.12	694.19	575.21	118.98	5.834		
18,300.00	12,404.02	18,028.12	12,187.23	63.07	61.98	-71.80	5,996.82	132.45	694.21	574.17	120.04	5.783		
18,400.00	12,403.57	18,128.12	12,186.76	63.62	62.53	-71.80	6,096.82	131.79	694.23	573.12	121.10	5.733		
18,500.00	12,403.12	18,228.12	12,186.28	64.18	63.08	-71.80	6,196.81	131.12	694.24	572.07	122.18	5.682		
18,600.00	12,402.67	18,328.12	12,185.81	64.74	63.64	-71.80	6,296.81	130.46	694.26	571.00	123.26	5.633		
18,700.00	12,402.22	18,428.12	12,185.34	65.31	64.20	-71.80	6,396.81	129.79	694.28	569.93	124.35	5.583		
18,800.00	12,401.77	18,528.12	12,184.86	65.88	64.76	-71.80	6,496.80	129.12	694.29	568.85	125.44	5.535		
18,900.00	12,401.32	18,628.12	12,184.39	66.45	65.33	-71.79	6,596.80	128.46	694.31	567.76	126.55	5.487		
19,000.00	12,400.87	18,728.12	12,183.92	67.03	65.90	-71.79	6,696.80	127.79	694.33	566.67	127.66	5.439		
19,100.00	12,400.42	18,828.12	12,183.45	67.61	66.48	-71.79	6,796.79	127.13	694.34	565.56	128.78	5.392		
19,200.00	12,399.97	18,928.12	12,182.97	68.20	67.06	-71.79	6,896.79	126.46	694.36	564.45	129.91	5.345		
19,300.00	12,399.52	19,028.12	12,182.50	68.79	67.65	-71.79	6,996.79	125.80	694.38	563.33	131.04	5.299		
19,400.00	12,399.07	19,128.12	12,182.03	69.38	68.24	-71.79	7,096.78	125.13	694.39	562.21	132.18	5.253		
19,500.00	12,398.62	19,228.12	12,181.55	69.98	68.83	-71.78	7,196.78	124.46	694.41	561.08	133.33	5.208		
19,600.00	12,398.17	19,328.12	12,181.08	70.58	69.42	-71.78	7,296.78	123.80	694.43	559.94	134.49	5.164		
19,700.00	12,397.73	19,428.12	12,180.61	71.18	70.02	-71.78	7,396.77	123.13	694.44	558.80	135.65	5.120		
19,800.00	12,397.28	19,528.12	12,180.13	71.78	70.62	-71.78	7,496.77	122.47	694.46	557.65	136.81	5.076		
19,900.00	12,396.83	19,628.12	12,179.66	72.39	71.23	-71.78	7,596.77	121.80	694.48	556.49	137.99	5.033		
20,000.00	12,396.38	19,728.12	12,179.19	73.01	71.84	-71.78	7,696.76	121.14	694.49	555.33	139.17	4.990		
20,100.00	12,395.93	19,828.12	12,178.71	73.62	72.45	-71.77	7,796.76	120.47	694.51	554.16	140.35	4.948		
20,200.00	12,395.48	19,928.12	12,178.24	74.24	73.06	-71.77	7,896.76	119.80	694.53	552.99	141.54	4.907		
20,300.00	12,395.03	20,028.12	12,177.77	74.86	73.68	-71.77	7,996.75	119.14	694.54	551.81	142.74	4.866		
20,400.00	12,394.58	20,128.12	12,177.29	75.48	74.30	-71.77	8,096.75	118.47	694.56	550.63	143.94	4.825		
20,500.00	12,394.13	20,228.12	12,176.82	76.11	74.92	-71.77	8,196.75	117.81	694.58	549.44	145.14	4.785		
20,600.00	12,393.68	20,328.12	12,176.35	76.73	75.54	-71.77	8,296.74	117.14	694.60	548.24	146.35	4.746		
20,700.00	12,393.23	20,428.12	12,175.87	77.36	76.17	-71.76	8,396.74	116.48	694.61	547.04	147.57	4.707		
20,800.00	12,392.78	20,528.12	12,175.40	78.00	76.80	-71.76	8,496.74	115.81	694.63	545.84	148.79	4.669		
20,900.00	12,392.33	20,628.12	12,174.93	78.63	77.43	-71.76	8,596.73	115.14	694.65	544.63	150.02	4.630		
21,000.00	12,391.88	20,728.12	12,174.45	79.27	78.07	-71.76	8,696.73	114.48	694.66	543.42	151.25	4.593		
21,100.00	12,391.43	20,828.12	12,173.98	79.91	78.71	-71.76	8,796.73	113.81	694.68	542.20	152.48	4.556		
21,200.00	12,390.98	20,928.12	12,173.51	80.55	79.35	-71.76	8,896.72	113.15	694.70	540.98	153.72	4.519		
21,300.00	12,390.53	21,028.12	12,173.03	81.20	79.99	-71.75	8,996.72	112.48	694.71	539.75	154.96	4.483		
21,400.00	12,390.08	21,128.12	12,172.56	81.84	80.63	-71.75	9,096.72	111.82	694.73	538.52	156.21	4.447		
21,500.00	12,389.63	21,228.12	12,172.09	82.49	81.28	-71.75	9,196.71	111.15	694.75	537.29	157.46	4.412		
21,600.00	12,389.18	21,328.12	12,171.61	83.14	81.93	-71.75	9,296.71	110.48	694.76	536.05	158.72	4.377		
21,700.00	12,388.73	21,428.12	12,171.14	83.79	82.58	-71.75	9,396.71	109.82	694.78	534.81	159.97	4.343		
21,800.00	12,388.29	21,528.12	12,170.67	84.45	83.23	-71.75	9,496.70	109.15	694.80	533.56	161.24	4.309		
21,900.00	12,387.84	21,628.12	12,170.19	85.10	83.88	-71.75	9,596.70	108.49	694.81	532.31	162.50	4.276		
22,000.00	12,387.39	21,728.12	12,169.72	85.76	84.54	-71.74	9,696.70	107.82	694.83	531.06	163.77	4.243		
22,100.00	12,386.94	21,828.12	12,169.25	86.42	85.20	-71.74	9,796.69	107.16	694.85	529.80	165.05	4.210		
22,200.00	12,386.49	21,928.12	12,168.77	87.08	85.85	-71.74	9,896.69	106.49	694.86	528.54	166.32	4.178		
22,300.00	12,386.04	22,028.12	12,168.30	87.74	86.52	-71.74	9,996.69	105.82	694.88	527.28	167.60	4.146		
22,400.00	12,385.59	22,128.12	12,167.83	88.41	87.18	-71.74	10,096.68	105.16	694.90	526.01	168.89	4.115		
22,500.00	12,385.14	22,228.12	12,167.35	89.08	87.84	-71.74	10,196.68	104.49	694.91	524.74	170.18	4.084		
22,600.00	12,384.69	22,328.12	12,166.88	89.74	88.51	-71.73	10,296.68	103.83	694.93	523.47	171.47	4.053		
22,700.00	12,384.24	22,428.12	12,166.41	90.41	89.18	-71.73	10,396.67	103.16	694.95	522.19	172.76	4.023		
22,800.00	12,383.79	22,528.12	12,165.93	91.08	89.85	-71.73	10,496.67	102.50	694.97	520.91	174.05	3.993		
22,900.00	12,383.34	22,628.12	12,165.46	91.76	90.52	-71.73	10,596.67	101.83	694.98	519.63	175.35	3.963		
23,000.00	12,382.89	22,728.12	12,164.99	92.43	91.19	-71.73	10,696.66	101.17	695.00	518.34	176.65	3.934		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 324H - #324H - ADP - Rev1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS												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	
23,100.00	12,382.44	22,828.12	12,164.51	93.11	91.87	-71.73	10,796.66	100.50	695.02	517.06	177.96	3.905	
23,200.00	12,381.99	22,928.12	12,164.04	93.78	92.54	-71.72	10,896.66	99.83	695.03	515.77	179.27	3.877	
23,300.00	12,381.54	23,028.12	12,163.57	94.46	93.22	-71.72	10,996.65	99.17	695.05	514.47	180.58	3.849	
23,400.00	12,381.09	23,128.12	12,163.09	95.14	93.90	-71.72	11,096.65	98.50	695.07	513.18	181.89	3.821	
23,420.60	12,381.00	23,148.71	12,163.00	95.28	94.04	-71.72	11,117.24	98.37	695.07	512.91	182.16	3.816	
23,500.00	12,380.64	23,228.12	12,162.62	95.82	94.57	-71.72	11,196.65	97.84	695.08	511.88	183.20	3.794	
23,500.00	12,380.64	23,228.12	12,162.62	95.82	94.57	-71.72	11,196.65	97.84	695.08	511.88	183.20	3.794	
23,510.60	12,380.60	23,237.98	12,162.57	95.89	94.64	-71.72	11,206.51	97.77	695.09	511.75	183.34	3.791	

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 404H - #404H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
400.00	400.00	399.00	399.00	1.21	1.21	-90.60	-0.52	-50.02	50.02	47.61	2.42	20.704		
500.00	500.00	499.00	499.00	1.57	1.56	-90.60	-0.52	-50.02	50.02	46.89	3.13	15.966		
600.00	600.00	599.00	599.00	1.93	1.92	-90.60	-0.52	-50.02	50.02	46.17	3.85	12.993		
700.00	700.00	699.00	699.00	2.29	2.28	-90.60	-0.52	-50.02	50.02	45.46	4.57	10.953		
800.00	800.00	799.00	799.00	2.64	2.64	-90.60	-0.52	-50.02	50.02	44.74	5.28	9.467		
900.00	900.00	899.00	899.00	3.00	3.00	-90.60	-0.52	-50.02	50.02	44.02	6.00	8.336		
1,000.00	1,000.00	999.00	999.00	3.36	3.36	-90.60	-0.52	-50.02	50.02	43.30	6.72	7.446		
1,100.00	1,100.00	1,099.00	1,099.00	3.72	3.72	-90.60	-0.52	-50.02	50.02	42.59	7.43	6.728		
1,200.00	1,200.00	1,199.00	1,199.00	4.08	4.07	-90.60	-0.52	-50.02	50.02	41.87	8.15	6.137		
1,300.00	1,300.00	1,299.00	1,299.00	4.44	4.43	-90.60	-0.52	-50.02	50.02	41.15	8.87	5.640		
1,304.67	1,304.67	1,303.67	1,303.67	4.45	4.45	-90.60	-0.52	-50.02	50.02	41.12	8.90	5.619 CC		
1,400.00	1,400.00	1,398.41	1,398.41	4.79	4.79	-90.46	-0.41	-50.31	50.31	40.73	9.58	5.252 ES		
1,500.00	1,500.00	1,497.14	1,497.11	5.15	5.13	-89.43	0.52	-52.65	52.69	42.41	10.28	5.127 SF		
1,600.00	1,600.00	1,595.68	1,595.51	5.51	5.48	-87.61	2.39	-57.36	57.52	46.55	10.97	5.243		
1,700.00	1,700.00	1,694.89	1,694.46	5.87	5.82	-85.51	5.03	-64.01	64.36	52.70	11.67	5.516		
1,800.00	1,800.00	1,794.61	1,793.91	6.23	6.18	-83.76	7.74	-70.85	71.45	59.08	12.37	5.774		
1,900.00	1,900.00	1,894.34	1,893.37	6.59	6.53	-82.33	10.46	-77.69	78.60	65.51	13.08	6.008		
2,000.00	2,000.00	1,994.07	1,992.82	6.95	6.88	-81.14	13.17	-84.54	85.78	71.99	13.79	6.220		
2,100.00	2,099.99	2,093.69	2,092.18	7.30	7.24	-170.25	15.88	-91.37	94.28	79.79	14.49	6.506		
2,200.00	2,199.91	2,193.07	2,191.29	7.64	7.59	-169.76	18.59	-98.19	105.36	90.17	15.18	6.939		
2,300.00	2,299.69	2,292.13	2,290.08	7.98	7.94	-169.58	21.28	-104.99	119.00	103.12	15.88	7.495		
2,400.00	2,399.27	2,390.81	2,388.49	8.33	8.30	-169.62	23.97	-111.76	135.19	118.62	16.57	8.160		
2,500.00	2,498.57	2,489.04	2,486.44	8.68	8.65	-169.82	26.64	-118.50	153.91	136.65	17.26	8.919		
2,582.11	2,579.86	2,569.31	2,566.50	8.96	8.93	-170.06	28.83	-124.01	171.18	153.35	17.82	9.606		
2,600.00	2,597.54	2,586.76	2,583.90	9.03	9.00	-170.12	29.30	-125.20	175.12	157.18	17.94	9.759		
2,700.00	2,696.38	2,684.29	2,681.16	9.38	9.35	-170.43	31.96	-131.90	197.19	178.56	18.63	10.586		
2,800.00	2,795.22	2,781.82	2,778.42	9.73	9.69	-170.69	34.61	-138.59	219.26	199.95	19.31	11.354		
2,900.00	2,894.07	2,879.35	2,875.69	10.09	10.04	-170.89	37.26	-145.28	241.34	221.34	20.00	12.068		
3,000.00	2,992.91	2,976.87	2,972.95	10.44	10.39	-171.06	39.92	-151.97	263.41	242.73	20.68	12.735		
3,100.00	3,091.75	3,074.40	3,070.21	10.80	10.74	-171.20	42.57	-158.66	285.49	264.12	21.37	13.358		
3,200.00	3,190.59	3,171.93	3,167.48	11.16	11.09	-171.33	45.23	-165.36	307.57	285.51	22.06	13.941		
3,300.00	3,289.43	3,269.46	3,264.74	11.52	11.44	-171.43	47.88	-172.05	329.66	306.90	22.75	14.489		
3,400.00	3,388.27	3,366.99	3,362.00	11.88	11.79	-171.53	50.54	-178.74	351.74	328.30	23.44	15.004		
3,500.00	3,487.11	3,464.52	3,459.27	12.24	12.15	-171.61	53.19	-185.43	373.82	349.69	24.13	15.489		
3,600.00	3,585.95	3,562.05	3,556.53	12.60	12.50	-171.68	55.84	-192.12	395.91	371.08	24.83	15.947		
3,700.00	3,684.79	3,659.58	3,653.80	12.96	12.85	-171.75	58.50	-198.82	417.99	392.47	25.52	16.379		
3,800.00	3,783.63	3,757.11	3,751.06	13.32	13.20	-171.81	61.15	-205.51	440.08	413.86	26.21	16.788		
3,900.00	3,882.48	3,854.64	3,848.32	13.68	13.55	-171.86	63.81	-212.20	462.16	435.26	26.91	17.176		
4,000.00	3,981.32	3,952.17	3,945.59	14.05	13.90	-171.91	66.46	-218.89	484.25	456.65	27.60	17.544		
4,100.00	4,080.16	4,049.70	4,042.85	14.41	14.25	-171.95	69.12	-225.59	506.34	478.04	28.30	17.893		
4,200.00	4,179.00	4,147.23	4,140.11	14.78	14.60	-171.99	71.77	-232.28	528.42	499.43	28.99	18.226		
4,300.00	4,277.84	4,244.76	4,237.38	15.14	14.95	-172.03	74.43	-238.97	550.51	520.82	29.69	18.543		
4,400.00	4,376.68	4,342.29	4,334.64	15.51	15.30	-172.07	77.08	-245.66	572.60	542.21	30.39	18.845		
4,500.00	4,475.52	4,439.82	4,431.90	15.87	15.66	-172.10	79.73	-252.35	594.69	563.60	31.08	19.133		
4,600.00	4,574.36	4,537.35	4,529.17	16.24	16.01	-172.13	82.39	-259.05	616.77	584.99	31.78	19.408		
4,700.00	4,673.20	4,634.88	4,626.43	16.60	16.36	-172.15	85.04	-265.74	638.86	606.38	32.48	19.671		
4,800.00	4,772.04	4,732.41	4,723.70	16.97	16.71	-172.18	87.70	-272.43	660.95	627.77	33.17	19.923		
4,900.00	4,870.89	4,829.94	4,820.96	17.34	17.06	-172.20	90.35	-279.12	683.04	649.16	33.87	20.165		
5,000.00	4,969.73	4,927.47	4,918.22	17.70	17.41	-172.23	93.01	-285.81	705.12	670.55	34.57	20.397		
5,100.00	5,068.57	5,025.00	5,015.49	18.07	17.77	-172.25	95.66	-292.51	727.21	691.94	35.27	20.619		
5,200.00	5,167.41	5,122.53	5,112.75	18.44	18.12	-172.27	98.31	-299.20	749.30	713.33	35.97	20.832		
5,300.00	5,266.25	5,220.06	5,210.01	18.81	18.47	-172.29	100.97	-305.89	771.39	734.72	36.67	21.038		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 404H - #404H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
5,400.00	5,365.09	5,317.59	5,307.28	19.17	18.82	-172.30	103.62	-312.58	793.48	756.11	37.37	21.235		
5,500.00	5,463.93	5,415.12	5,404.54	19.54	19.17	-172.32	106.28	-319.28	815.57	777.50	38.07	21.425		
5,600.00	5,562.77	5,512.65	5,501.80	19.91	19.52	-172.34	108.93	-325.97	837.65	798.89	38.77	21.608		
5,700.00	5,661.61	5,610.18	5,599.07	20.28	19.88	-172.35	111.59	-332.66	859.74	820.28	39.47	21.784		
5,800.00	5,760.45	5,707.71	5,696.33	20.65	20.23	-172.37	114.24	-339.35	881.83	841.67	40.17	21.955		
5,900.00	5,859.30	5,805.24	5,793.60	21.02	20.58	-172.38	116.90	-346.04	903.92	863.05	40.87	22.119		
6,000.00	5,958.14	5,902.77	5,890.86	21.38	20.93	-172.39	119.55	-352.74	926.01	884.44	41.57	22.277		
6,100.00	6,056.98	6,000.30	5,988.12	21.75	21.28	-172.40	122.20	-359.43	948.10	905.83	42.27	22.431		
6,200.00	6,155.82	6,097.83	6,085.39	22.12	21.64	-172.42	124.86	-366.12	970.19	927.22	42.97	22.579		
6,300.00	6,254.66	6,195.36	6,182.65	22.49	21.99	-172.43	127.51	-372.81	992.28	948.61	43.67	22.722		
6,400.00	6,353.50	6,292.89	6,279.91	22.86	22.34	-172.44	130.17	-379.50	1,014.37	969.99	44.37	22.861		
6,500.00	6,452.34	6,390.42	6,377.18	23.23	22.69	-172.45	132.82	-386.20	1,036.45	991.38	45.07	22.995		
6,600.00	6,551.18	6,487.94	6,474.44	23.60	23.04	-172.46	135.48	-392.89	1,058.54	1,012.77	45.77	23.125		
6,700.00	6,650.02	6,585.47	6,571.70	23.97	23.40	-172.47	138.13	-399.58	1,080.63	1,034.16	46.48	23.251		
6,800.00	6,748.86	6,683.00	6,668.97	24.34	23.75	-172.48	140.78	-406.27	1,102.72	1,055.54	47.18	23.373		
6,900.00	6,847.71	6,780.53	6,766.23	24.71	24.10	-172.49	143.44	-412.97	1,124.81	1,076.93	47.88	23.492		
7,000.00	6,946.55	6,878.06	6,863.50	25.08	24.45	-172.49	146.09	-419.66	1,146.90	1,098.32	48.58	23.607		
7,100.00	7,045.39	6,975.59	6,960.76	25.45	24.80	-172.50	148.75	-426.35	1,168.99	1,119.70	49.29	23.719		
7,200.00	7,144.23	7,073.12	7,058.02	25.82	25.16	-172.51	151.40	-433.04	1,191.08	1,141.09	49.99	23.827		
7,300.00	7,243.07	7,170.65	7,155.29	26.19	25.51	-172.52	154.06	-439.73	1,213.17	1,162.48	50.69	23.933		
7,400.00	7,341.91	7,268.18	7,252.55	26.56	25.86	-172.53	156.71	-446.43	1,235.26	1,183.86	51.39	24.035		
7,500.00	7,440.75	7,365.71	7,349.81	26.93	26.21	-172.53	159.37	-453.12	1,257.35	1,205.25	52.10	24.135		
7,600.00	7,539.59	7,463.24	7,447.08	27.30	26.57	-172.54	162.02	-459.81	1,279.43	1,226.64	52.80	24.232		
7,700.00	7,638.43	7,560.77	7,544.34	27.67	26.92	-172.55	164.67	-466.50	1,301.52	1,248.02	53.50	24.326		
7,800.00	7,737.27	7,658.30	7,641.60	28.04	27.27	-172.55	167.33	-473.19	1,323.61	1,269.41	54.21	24.418		
7,900.00	7,836.12	7,766.65	7,749.67	28.41	27.66	-172.56	170.23	-480.51	1,345.62	1,290.64	54.98	24.475		
8,000.00	7,934.96	7,864.13	7,847.18	28.78	28.02	-172.56	172.76	-486.90	1,365.07	1,309.09	55.98	24.384		
8,086.18	8,020.14	8,036.30	8,019.14	29.10	28.62	-172.70	173.26	-488.14	1,378.89	1,322.14	56.76	24.294		
8,100.00	8,033.80	8,049.96	8,032.80	29.15	28.67	-172.71	173.26	-488.14	1,380.95	1,324.10	56.85	24.289		
8,200.00	8,132.88	8,149.04	8,131.88	29.52	29.02	-172.81	173.26	-488.14	1,394.37	1,336.81	57.56	24.225		
8,300.00	8,232.28	8,248.44	8,231.28	29.88	29.37	-172.88	173.26	-488.14	1,405.22	1,346.95	58.26	24.119		
8,400.00	8,331.93	8,348.09	8,330.93	30.24	29.71	-172.94	173.26	-488.14	1,413.48	1,354.51	58.97	23.970		
8,500.00	8,431.76	8,447.92	8,430.76	30.60	30.06	-172.98	173.26	-488.14	1,419.15	1,359.47	59.67	23.782		
8,600.00	8,531.71	8,547.87	8,530.71	30.95	30.41	-173.00	173.26	-488.14	1,422.22	1,361.84	60.38	23.555		
8,668.29	8,600.00	8,616.16	8,599.00	31.19	30.65	-83.01	173.26	-488.14	1,422.82	1,361.97	60.86	23.380		
8,700.00	8,631.71	8,647.87	8,630.71	31.30	30.76	-83.01	173.26	-488.14	1,422.82	1,361.75	61.08	23.296		
8,800.00	8,731.71	8,747.87	8,730.71	31.64	31.11	-83.01	173.26	-488.14	1,422.82	1,361.05	61.77	23.034		
8,900.00	8,831.71	8,847.87	8,830.71	31.98	31.46	-83.01	173.26	-488.14	1,422.82	1,360.36	62.47	22.778		
9,000.00	8,931.71	8,947.87	8,930.71	32.32	31.81	-83.01	173.26	-488.14	1,422.82	1,359.66	63.16	22.527		
9,100.00	9,031.71	9,047.87	9,030.71	32.66	32.17	-83.01	173.26	-488.14	1,422.82	1,358.97	63.86	22.281		
9,200.00	9,131.71	9,147.87	9,130.71	33.01	32.52	-83.01	173.26	-488.14	1,422.82	1,358.27	64.55	22.041		
9,300.00	9,231.71	9,247.87	9,230.71	33.35	32.87	-83.01	173.26	-488.14	1,422.82	1,357.57	65.25	21.805		
9,400.00	9,331.71	9,347.87	9,330.71	33.69	33.22	-83.01	173.26	-488.14	1,422.82	1,356.88	65.95	21.575		
9,500.00	9,431.71	9,447.87	9,430.71	34.04	33.57	-83.01	173.26	-488.14	1,422.82	1,356.18	66.65	21.349		
9,600.00	9,531.71	9,547.87	9,530.71	34.38	33.92	-83.01	173.26	-488.14	1,422.82	1,355.48	67.34	21.127		
9,700.00	9,631.71	9,647.87	9,630.71	34.73	34.28	-83.01	173.26	-488.14	1,422.82	1,354.78	68.04	20.911		
9,800.00	9,731.71	9,747.87	9,730.71	35.07	34.63	-83.01	173.26	-488.14	1,422.82	1,354.08	68.74	20.698		
9,900.00	9,831.71	9,847.87	9,830.71	35.42	34.98	-83.01	173.26	-488.14	1,422.82	1,353.38	69.44	20.489		
10,000.00	9,931.71	9,947.87	9,930.71	35.76	35.33	-83.01	173.26	-488.14	1,422.82	1,352.68	70.14	20.285		
10,100.00	10,031.71	10,047.87	10,030.71	36.11	35.68	-83.01	173.26	-488.14	1,422.82	1,351.98	70.84	20.085		
10,200.00	10,131.71	10,147.87	10,130.71	36.45	36.04	-83.01	173.26	-488.14	1,422.82	1,351.28	71.54	19.888		
10,300.00	10,231.71	10,247.87	10,230.71	36.80	36.39	-83.01	173.26	-488.14	1,422.82	1,350.58	72.24	19.695		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 404H - #404H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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	10,331.71	10,347.87	10,330.71	37.14	36.74	-83.01	173.26	-488.14	1,422.82	1,349.88	72.94	19.506		
10,500.00	10,431.71	10,447.87	10,430.71	37.49	37.09	-83.01	173.26	-488.14	1,422.82	1,349.18	73.65	19.320		
10,600.00	10,531.71	10,547.87	10,530.71	37.84	37.45	-83.01	173.26	-488.14	1,422.82	1,348.48	74.35	19.138		
10,700.00	10,631.71	10,647.87	10,630.71	38.18	37.80	-83.01	173.26	-488.14	1,422.82	1,347.78	75.05	18.959		
10,800.00	10,731.71	10,747.87	10,730.71	38.53	38.15	-83.01	173.26	-488.14	1,422.82	1,347.07	75.75	18.783		
10,900.00	10,831.71	10,847.87	10,830.71	38.88	38.51	-83.01	173.26	-488.14	1,422.82	1,346.37	76.45	18.610		
11,000.00	10,931.71	10,947.87	10,930.71	39.23	38.86	-83.01	173.26	-488.14	1,422.82	1,345.67	77.16	18.441		
11,100.00	11,031.71	11,047.87	11,030.71	39.57	39.21	-83.01	173.26	-488.14	1,422.82	1,344.97	77.86	18.274		
11,200.00	11,131.71	11,147.87	11,130.71	39.92	39.57	-83.01	173.26	-488.14	1,422.82	1,344.26	78.56	18.111		
11,300.00	11,231.71	11,247.87	11,230.71	40.27	39.92	-83.01	173.26	-488.14	1,422.82	1,343.56	79.27	17.950		
11,400.00	11,331.71	11,347.87	11,330.71	40.62	40.28	-83.01	173.26	-488.14	1,422.82	1,342.85	79.97	17.792		
11,500.00	11,431.71	11,447.87	11,430.71	40.97	40.63	-83.01	173.26	-488.14	1,422.82	1,342.15	80.67	17.637		
11,600.00	11,531.71	11,547.87	11,530.71	41.32	40.98	-83.01	173.26	-488.14	1,422.82	1,341.45	81.38	17.484		
11,700.00	11,631.71	11,647.87	11,630.71	41.66	41.34	-83.01	173.26	-488.14	1,422.82	1,340.74	82.08	17.334		
11,800.00	11,731.71	11,747.87	11,730.71	42.01	41.69	-83.01	173.26	-488.14	1,422.82	1,340.04	82.79	17.187		
11,900.00	11,831.71	11,847.87	11,830.71	42.36	42.04	-83.01	173.26	-488.14	1,422.82	1,339.33	83.49	17.042		
12,000.00	11,931.71	11,947.87	11,930.71	42.71	42.40	-83.01	173.26	-488.14	1,422.82	1,338.63	84.20	16.899		
12,000.29	11,932.00	11,948.16	11,931.00	42.71	42.40	-83.01	173.26	-488.14	1,422.82	1,338.63	84.20	16.898		
12,012.62	11,944.33	11,958.92	11,941.75	42.76	42.44	-83.01	173.27	-488.14	1,422.83	1,338.55	84.28	16.882		
12,025.00	11,956.71	11,967.64	11,950.47	42.80	42.47	-67.81	173.42	-488.14	1,422.80	1,338.45	84.35	16.868		
12,050.00	11,981.67	11,985.24	11,968.06	42.89	42.53	-67.85	174.20	-488.16	1,422.46	1,337.97	84.49	16.836		
12,075.00	12,006.53	12,000.00	11,982.77	42.97	42.58	-67.93	175.36	-488.18	1,421.77	1,337.15	84.62	16.802		
12,100.00	12,031.22	12,020.47	12,003.10	43.06	42.66	-68.08	177.71	-488.23	1,420.70	1,335.93	84.77	16.760		
12,125.00	12,055.67	12,038.09	12,020.51	43.14	42.72	-68.26	180.44	-488.28	1,419.28	1,334.38	84.90	16.716		
12,150.00	12,079.82	12,055.72	12,037.81	43.22	42.78	-68.50	183.80	-488.34	1,417.51	1,332.47	85.04	16.670		
12,175.00	12,103.60	12,075.00	12,056.58	43.30	42.85	-68.79	188.21	-488.43	1,415.39	1,330.22	85.17	16.618		
12,200.00	12,126.93	12,091.02	12,072.03	43.38	42.90	-69.12	192.45	-488.51	1,412.92	1,327.63	85.29	16.566		
12,225.00	12,149.77	12,108.70	12,088.90	43.45	42.96	-69.50	197.73	-488.61	1,410.12	1,324.70	85.41	16.509		
12,250.00	12,172.05	12,125.00	12,104.28	43.52	43.01	-69.92	203.14	-488.71	1,406.99	1,321.46	85.53	16.451		
12,275.00	12,193.70	12,144.13	12,122.07	43.59	43.07	-70.40	210.16	-488.85	1,403.54	1,317.88	85.65	16.386		
12,300.00	12,214.67	12,161.89	12,138.33	43.65	43.13	-70.93	217.31	-488.99	1,399.78	1,314.01	85.77	16.321		
12,325.00	12,234.89	12,179.69	12,154.34	43.71	43.18	-71.50	225.07	-489.13	1,395.72	1,309.84	85.88	16.252		
12,350.00	12,254.33	12,200.00	12,172.25	43.77	43.24	-72.14	234.66	-489.32	1,391.38	1,305.38	86.00	16.178		
12,375.00	12,272.91	12,215.42	12,185.56	43.82	43.29	-72.78	242.43	-489.47	1,386.77	1,300.67	86.10	16.107		
12,400.00	12,290.59	12,233.36	12,200.72	43.87	43.34	-73.49	252.02	-489.65	1,381.90	1,295.69	86.20	16.031		
12,425.00	12,307.32	12,250.00	12,214.45	43.91	43.38	-74.23	261.42	-489.83	1,376.78	1,290.48	86.30	15.954		
12,450.00	12,323.05	12,269.43	12,230.06	43.95	43.43	-75.04	272.98	-490.05	1,371.44	1,285.03	86.41	15.872		
12,475.00	12,337.75	12,287.57	12,244.20	43.98	43.47	-75.88	284.35	-490.27	1,365.89	1,279.38	86.51	15.789		
12,500.00	12,351.37	12,305.80	12,257.96	44.01	43.52	-76.76	296.30	-490.50	1,360.15	1,273.54	86.61	15.705		
12,512.62	12,357.83	12,315.04	12,264.76	44.03	43.54	-77.21	302.56	-490.62	1,357.18	1,270.53	86.65	15.662		
12,525.00	12,363.89	12,325.00	12,271.95	44.04	43.56	-78.05	309.45	-490.75	1,354.30	1,267.60	86.71	15.619		
12,550.00	12,375.38	12,342.68	12,284.35	44.06	43.59	-79.61	322.04	-491.00	1,348.84	1,262.04	86.80	15.540		
12,575.00	12,385.81	12,361.45	12,297.00	44.08	43.63	-81.04	335.90	-491.26	1,343.85	1,256.96	86.89	15.466		
12,600.00	12,395.16	12,380.46	12,309.25	44.10	43.66	-82.33	350.44	-491.54	1,339.36	1,252.37	86.98	15.398		
12,625.00	12,403.40	12,400.00	12,321.22	44.11	43.70	-83.49	365.88	-491.84	1,335.38	1,248.30	87.08	15.336		
12,650.00	12,410.52	12,419.24	12,332.38	44.12	43.73	-84.53	381.55	-492.14	1,331.92	1,244.76	87.16	15.281		
12,675.00	12,416.49	12,439.04	12,343.20	44.13	43.76	-85.44	398.12	-492.46	1,329.01	1,241.76	87.25	15.232		
12,700.00	12,421.30	12,459.35	12,353.58	44.14	43.79	-86.24	415.58	-492.79	1,326.65	1,239.31	87.34	15.190		
12,725.00	12,424.93	12,480.99	12,363.80	44.14	43.82	-86.94	434.65	-493.14	1,324.84	1,237.42	87.42	15.155		
12,750.00	12,427.37	12,502.99	12,373.30	44.14	43.85	-87.53	454.49	-493.48	1,323.57	1,236.07	87.50	15.127		
12,775.00	12,428.61	12,525.00	12,381.88	44.14	43.88	-87.99	474.75	-493.81	1,322.86	1,235.29	87.57	15.106		
12,790.87	12,428.78	12,539.77	12,387.11	44.14	43.90	-88.24	488.56	-494.01	1,322.70	1,235.08	87.62	15.097		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 404H - #404H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
12,800.00	12,428.74	12,548.15	12,389.88	44.14	43.91	-88.36	496.47	-494.13	1,322.68	1,235.04	87.64	15.092		
12,828.11	12,428.62	12,574.59	12,397.73	44.14	43.94	-88.71	521.71	-494.47	1,322.65	1,234.94	87.71	15.080		
12,900.00	12,428.29	12,645.80	12,411.79	44.14	44.02	-89.33	591.44	-495.26	1,322.74	1,234.87	87.86	15.054		
13,000.00	12,427.84	12,747.53	12,415.32	44.14	44.10	-89.50	693.02	-496.06	1,322.83	1,234.81	88.02	15.028		
13,100.00	12,427.39	12,847.53	12,414.92	44.14	44.18	-89.50	793.02	-496.77	1,322.88	1,234.69	88.19	15.001		
13,200.00	12,426.94	12,947.53	12,414.52	44.18	44.27	-89.51	893.01	-497.48	1,322.93	1,234.55	88.38	14.968		
13,300.00	12,426.50	13,047.53	12,414.13	44.29	44.37	-89.51	993.01	-498.18	1,322.98	1,234.38	88.60	14.932		
13,400.00	12,426.05	13,147.53	12,413.73	44.42	44.49	-89.51	1,093.01	-498.89	1,323.03	1,234.18	88.84	14.892		
13,500.00	12,425.60	13,247.53	12,413.33	44.57	44.62	-89.51	1,193.00	-499.59	1,323.08	1,233.96	89.11	14.847		
13,600.00	12,425.15	13,347.53	12,412.94	44.73	44.76	-89.51	1,293.00	-500.30	1,323.13	1,233.72	89.41	14.798		
13,700.00	12,424.70	13,447.53	12,412.54	44.90	44.92	-89.52	1,393.00	-501.01	1,323.18	1,233.44	89.73	14.746		
13,800.00	12,424.25	13,547.53	12,412.14	45.08	45.09	-89.52	1,492.99	-501.71	1,323.23	1,233.15	90.08	14.690		
13,900.00	12,423.80	13,647.53	12,411.75	45.28	45.26	-89.52	1,592.99	-502.42	1,323.28	1,232.83	90.45	14.630		
14,000.00	12,423.35	13,747.53	12,411.35	45.48	45.46	-89.52	1,692.99	-503.12	1,323.33	1,232.48	90.84	14.567		
14,100.00	12,422.90	13,847.53	12,410.95	45.70	45.66	-89.53	1,792.98	-503.83	1,323.38	1,232.11	91.26	14.501		
14,200.00	12,422.45	13,947.53	12,410.56	45.93	45.88	-89.53	1,892.98	-504.54	1,323.43	1,231.72	91.71	14.431		
14,300.00	12,422.00	14,047.53	12,410.16	46.17	46.10	-89.53	1,992.98	-505.24	1,323.48	1,231.30	92.17	14.359		
14,400.00	12,421.55	14,147.53	12,409.76	46.43	46.34	-89.53	2,092.97	-505.95	1,323.53	1,230.86	92.66	14.284		
14,500.00	12,421.10	14,247.53	12,409.37	46.69	46.59	-89.54	2,192.97	-506.65	1,323.57	1,230.40	93.17	14.206		
14,600.00	12,420.65	14,347.53	12,408.97	46.96	46.85	-89.54	2,292.97	-507.36	1,323.62	1,229.92	93.71	14.125		
14,700.00	12,420.20	14,447.53	12,408.57	47.25	47.13	-89.54	2,392.96	-508.07	1,323.67	1,229.41	94.26	14.043		
14,800.00	12,419.75	14,547.53	12,408.18	47.54	47.41	-89.54	2,492.96	-508.77	1,323.72	1,228.89	94.84	13.958		
14,900.00	12,419.30	14,647.53	12,407.78	47.85	47.70	-89.54	2,592.96	-509.48	1,323.77	1,228.34	95.44	13.871		
15,000.00	12,418.85	14,747.53	12,407.39	48.17	48.01	-89.55	2,692.95	-510.19	1,323.82	1,227.77	96.06	13.782		
15,100.00	12,418.40	14,847.53	12,406.99	48.49	48.32	-89.55	2,792.95	-510.89	1,323.87	1,227.18	96.70	13.691		
15,200.00	12,417.95	14,947.53	12,406.59	48.83	48.65	-89.55	2,892.95	-511.60	1,323.92	1,226.57	97.36	13.599		
15,300.00	12,417.50	15,047.53	12,406.20	49.17	48.98	-89.55	2,992.94	-512.30	1,323.97	1,225.94	98.04	13.505		
15,400.00	12,417.05	15,147.53	12,405.80	49.53	49.32	-89.56	3,092.94	-513.01	1,324.02	1,225.29	98.73	13.410		
15,500.00	12,416.61	15,247.53	12,405.40	49.89	49.68	-89.56	3,192.94	-513.72	1,324.07	1,224.62	99.45	13.314		
15,600.00	12,416.16	15,347.53	12,405.01	50.26	50.04	-89.56	3,292.93	-514.42	1,324.12	1,223.94	100.19	13.217		
15,700.00	12,415.71	15,447.53	12,404.61	50.65	50.41	-89.56	3,392.93	-515.13	1,324.17	1,223.23	100.94	13.119		
15,800.00	12,415.26	15,547.53	12,404.21	51.04	50.79	-89.57	3,492.93	-515.83	1,324.22	1,222.51	101.71	13.020		
15,900.00	12,414.81	15,647.53	12,403.82	51.44	51.18	-89.57	3,592.92	-516.54	1,324.27	1,221.78	102.50	12.920		
16,000.00	12,414.36	15,747.53	12,403.42	51.84	51.58	-89.57	3,692.92	-517.25	1,324.32	1,221.02	103.30	12.820		
16,100.00	12,413.91	15,847.53	12,403.02	52.26	51.99	-89.57	3,792.92	-517.95	1,324.37	1,220.25	104.12	12.719		
16,200.00	12,413.46	15,947.53	12,402.63	52.68	52.40	-89.57	3,892.91	-518.66	1,324.42	1,219.46	104.96	12.619		
16,300.00	12,413.01	16,047.53	12,402.23	53.11	52.82	-89.58	3,992.91	-519.36	1,324.47	1,218.66	105.81	12.517		
16,400.00	12,412.56	16,147.53	12,401.83	53.55	53.25	-89.58	4,092.91	-520.07	1,324.52	1,217.84	106.68	12.416		
16,500.00	12,412.11	16,247.53	12,401.44	53.99	53.69	-89.58	4,192.90	-520.78	1,324.57	1,217.01	107.56	12.315		
16,600.00	12,411.66	16,347.53	12,401.04	54.45	54.13	-89.58	4,292.90	-521.48	1,324.62	1,216.16	108.46	12.213		
16,700.00	12,411.21	16,447.53	12,400.64	54.91	54.58	-89.59	4,392.90	-522.19	1,324.67	1,215.30	109.37	12.112		
16,800.00	12,410.76	16,547.53	12,400.25	55.37	55.04	-89.59	4,492.89	-522.89	1,324.72	1,214.43	110.29	12.011		
16,900.00	12,410.31	16,647.53	12,399.85	55.84	55.51	-89.59	4,592.89	-523.60	1,324.77	1,213.54	111.23	11.910		
17,000.00	12,409.86	16,747.53	12,399.45	56.32	55.98	-89.59	4,692.89	-524.31	1,324.82	1,212.64	112.18	11.809		
17,100.00	12,409.41	16,847.53	12,399.06	56.81	56.46	-89.60	4,792.88	-525.01	1,324.87	1,211.72	113.15	11.709		
17,200.00	12,408.96	16,947.53	12,398.66	57.30	56.94	-89.60	4,892.88	-525.72	1,324.92	1,210.80	114.12	11.610		
17,300.00	12,408.51	17,047.53	12,398.26	57.80	57.43	-89.60	4,992.88	-526.42	1,324.97	1,209.86	115.11	11.510		
17,400.00	12,408.06	17,147.53	12,397.87	58.30	57.93	-89.60	5,092.87	-527.13	1,325.02	1,208.91	116.11	11.412		
17,500.00	12,407.61	17,247.53	12,397.47	58.81	58.43	-89.60	5,192.87	-527.84	1,325.07	1,207.95	117.12	11.313		
17,600.00	12,407.17	17,347.53	12,397.07	59.32	58.94	-89.61	5,292.87	-528.54	1,325.12	1,206.97	118.15	11.216		
17,700.00	12,406.72	17,447.53	12,396.68	59.84	59.45	-89.61	5,392.86	-529.25	1,325.17	1,205.99	119.18	11.119		
17,800.00	12,406.27	17,547.53	12,396.28	60.37	59.97	-89.61	5,492.86	-529.96	1,325.22	1,204.99	120.23	11.023		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 404H - #404H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
17,900.00	12,405.82	17,647.53	12,395.88	60.90	60.50	-89.61	5,592.86	-530.66	1,325.27	1,203.99	121.28	10.927		
18,000.00	12,405.37	17,747.53	12,395.49	61.43	61.03	-89.62	5,692.85	-531.37	1,325.32	1,202.97	122.35	10.832		
18,100.00	12,404.92	17,847.53	12,395.09	61.97	61.56	-89.62	5,792.85	-532.07	1,325.37	1,201.95	123.42	10.739		
18,200.00	12,404.47	17,947.53	12,394.69	62.52	62.10	-89.62	5,892.85	-532.78	1,325.42	1,200.91	124.51	10.645		
18,300.00	12,404.02	18,047.53	12,394.30	63.07	62.65	-89.62	5,992.84	-533.49	1,325.47	1,199.87	125.60	10.553		
18,400.00	12,403.57	18,147.53	12,393.90	63.62	63.19	-89.63	6,092.84	-534.19	1,325.52	1,198.82	126.70	10.462		
18,500.00	12,403.12	18,247.53	12,393.50	64.18	63.75	-89.63	6,192.84	-534.90	1,325.57	1,197.75	127.82	10.371		
18,600.00	12,402.67	18,347.53	12,393.11	64.74	64.30	-89.63	6,292.83	-535.60	1,325.62	1,196.68	128.94	10.281		
18,700.00	12,402.22	18,447.53	12,392.71	65.31	64.87	-89.63	6,392.83	-536.31	1,325.67	1,195.60	130.06	10.192		
18,800.00	12,401.77	18,547.53	12,392.31	65.88	65.43	-89.63	6,492.83	-537.02	1,325.72	1,194.52	131.20	10.104		
18,900.00	12,401.32	18,647.53	12,391.92	66.45	66.00	-89.64	6,592.82	-537.72	1,325.77	1,193.42	132.35	10.017		
19,000.00	12,400.87	18,747.53	12,391.52	67.03	66.58	-89.64	6,692.82	-538.43	1,325.82	1,192.32	133.50	9.931		
19,100.00	12,400.42	18,847.53	12,391.12	67.61	67.15	-89.64	6,792.82	-539.13	1,325.87	1,191.21	134.66	9.846		
19,200.00	12,399.97	18,947.53	12,390.73	68.20	67.74	-89.64	6,892.81	-539.84	1,325.92	1,190.09	135.83	9.762		
19,300.00	12,399.52	19,047.53	12,390.33	68.79	68.32	-89.65	6,992.81	-540.55	1,325.97	1,188.97	137.00	9.678		
19,400.00	12,399.07	19,147.53	12,389.93	69.38	68.91	-89.65	7,092.81	-541.25	1,326.02	1,187.83	138.19	9.596		
19,500.00	12,398.62	19,247.53	12,389.54	69.98	69.50	-89.65	7,192.80	-541.96	1,326.07	1,186.69	139.37	9.514		
19,600.00	12,398.17	19,347.53	12,389.14	70.58	70.10	-89.65	7,292.80	-542.66	1,326.12	1,185.55	140.57	9.434		
19,700.00	12,397.73	19,447.53	12,388.74	71.18	70.70	-89.66	7,392.80	-543.37	1,326.17	1,184.40	141.77	9.354		
19,800.00	12,397.28	19,547.53	12,388.35	71.78	71.30	-89.66	7,492.79	-544.08	1,326.22	1,183.24	142.98	9.276		
19,900.00	12,396.83	19,647.53	12,387.95	72.39	71.90	-89.66	7,592.79	-544.78	1,326.27	1,182.07	144.19	9.198		
20,000.00	12,396.38	19,747.53	12,387.55	73.01	72.51	-89.66	7,692.79	-545.49	1,326.32	1,180.90	145.42	9.121		
20,100.00	12,395.93	19,847.53	12,387.16	73.62	73.12	-89.66	7,792.78	-546.20	1,326.37	1,179.73	146.64	9.045		
20,200.00	12,395.48	19,947.53	12,386.76	74.24	73.74	-89.67	7,892.78	-546.90	1,326.42	1,178.54	147.87	8.970		
20,300.00	12,395.03	20,047.53	12,386.36	74.86	74.35	-89.67	7,992.78	-547.61	1,326.47	1,177.36	149.11	8.896		
20,400.00	12,394.58	20,147.53	12,385.97	75.48	74.97	-89.67	8,092.77	-548.31	1,326.52	1,176.16	150.35	8.823		
20,500.00	12,394.13	20,247.53	12,385.57	76.11	75.60	-89.67	8,192.77	-549.02	1,326.57	1,174.97	151.60	8.750		
20,600.00	12,393.68	20,347.53	12,385.18	76.73	76.22	-89.68	8,292.77	-549.73	1,326.62	1,173.76	152.86	8.679		
20,700.00	12,393.23	20,447.53	12,384.78	77.36	76.85	-89.68	8,392.76	-550.43	1,326.67	1,172.55	154.11	8.608		
20,800.00	12,392.78	20,547.53	12,384.38	78.00	77.48	-89.68	8,492.76	-551.14	1,326.72	1,171.34	155.38	8.539		
20,900.00	12,392.33	20,647.53	12,383.99	78.63	78.11	-89.68	8,592.76	-551.84	1,326.77	1,170.12	156.65	8.470		
21,000.00	12,391.88	20,747.53	12,383.59	79.27	78.75	-89.68	8,692.75	-552.55	1,326.82	1,168.90	157.92	8.402		
21,100.00	12,391.43	20,847.53	12,383.19	79.91	79.38	-89.69	8,792.75	-553.26	1,326.87	1,167.67	159.20	8.335		
21,200.00	12,390.98	20,947.53	12,382.80	80.55	80.02	-89.69	8,892.75	-553.96	1,326.92	1,166.44	160.48	8.268		
21,300.00	12,390.53	21,047.53	12,382.40	81.20	80.66	-89.69	8,992.74	-554.67	1,326.97	1,165.20	161.77	8.203		
21,400.00	12,390.08	21,147.53	12,382.00	81.84	81.31	-89.69	9,092.74	-555.37	1,327.02	1,163.96	163.06	8.138		
21,500.00	12,389.63	21,247.53	12,381.61	82.49	81.95	-89.70	9,192.74	-556.08	1,327.07	1,162.72	164.35	8.075		
21,600.00	12,389.18	21,347.53	12,381.21	83.14	82.60	-89.70	9,292.73	-556.79	1,327.12	1,161.47	165.65	8.012		
21,700.00	12,388.73	21,447.53	12,380.81	83.79	83.25	-89.70	9,392.73	-557.49	1,327.17	1,160.21	166.95	7.949		
21,800.00	12,388.29	21,547.53	12,380.42	84.45	83.90	-89.70	9,492.73	-558.20	1,327.22	1,158.96	168.26	7.888		
21,900.00	12,387.84	21,647.53	12,380.02	85.10	84.56	-89.71	9,592.72	-558.90	1,327.27	1,157.70	169.57	7.827		
22,000.00	12,387.39	21,747.53	12,379.62	85.76	85.21	-89.71	9,692.72	-559.61	1,327.32	1,156.43	170.88	7.767		
22,100.00	12,386.94	21,847.53	12,379.23	86.42	85.87	-89.71	9,792.72	-560.32	1,327.37	1,155.17	172.20	7.708		
22,200.00	12,386.49	21,947.53	12,378.83	87.08	86.53	-89.71	9,892.71	-561.02	1,327.42	1,153.89	173.52	7.650		
22,300.00	12,386.04	22,047.53	12,378.43	87.74	87.19	-89.71	9,992.71	-561.73	1,327.47	1,152.62	174.85	7.592		
22,400.00	12,385.59	22,147.53	12,378.04	88.41	87.86	-89.72	10,092.71	-562.43	1,327.52	1,151.34	176.18	7.535		
22,500.00	12,385.14	22,247.53	12,377.64	89.08	88.52	-89.72	10,192.71	-563.14	1,327.57	1,150.06	177.51	7.479		
22,600.00	12,384.69	22,347.53	12,377.24	89.74	89.19	-89.72	10,292.70	-563.85	1,327.62	1,148.77	178.84	7.423		
22,700.00	12,384.24	22,447.53	12,376.85	90.41	89.85	-89.72	10,392.70	-564.55	1,327.67	1,147.49	180.18	7.369		
22,800.00	12,383.79	22,547.53	12,376.45	91.08	90.52	-89.73	10,492.70	-565.26	1,327.72	1,146.20	181.52	7.314		
22,900.00	12,383.34	22,647.53	12,376.05	91.76	91.19	-89.73	10,592.69	-565.97	1,327.77	1,144.90	182.87	7.261		
23,000.00	12,382.89	22,747.53	12,375.66	92.43	91.87	-89.73	10,692.69	-566.67	1,327.82	1,143.60	184.21	7.208		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 404H - #404H - ADP - Rev1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS												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	
23,100.00	12,382.44	22,847.53	12,375.26	93.11	92.54	-89.73	10,792.69	-567.38	1,327.87	1,142.31	185.56	7.156	
23,200.00	12,381.99	22,947.53	12,374.86	93.78	93.21	-89.74	10,892.68	-568.08	1,327.92	1,141.00	186.91	7.104	
23,300.00	12,381.54	23,047.53	12,374.47	94.46	93.89	-89.74	10,992.68	-568.79	1,327.97	1,139.70	188.27	7.054	
23,400.00	12,381.09	23,147.53	12,374.07	95.14	94.57	-89.74	11,092.68	-569.50	1,328.02	1,138.39	189.63	7.003	
23,420.60	12,381.00	23,168.12	12,373.99	95.28	94.71	-89.74	11,113.27	-569.64	1,328.03	1,138.12	189.91	6.993	
23,500.00	12,380.64	23,247.53	12,373.67	95.82	95.25	-89.74	11,192.67	-570.20	1,328.07	1,137.08	190.99	6.954	
23,510.60	12,380.60	23,255.15	12,373.64	95.89	95.30	-89.74	11,200.29	-570.26	1,328.08	1,136.97	191.11	6.949	

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 93H - #93H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
700.00	700.00	698.00	698.00	2.29	2.28	-90.56	-0.98	-100.04	100.04	95.48	4.56	21.924		
800.00	800.00	798.00	798.00	2.64	2.64	-90.56	-0.98	-100.04	100.04	94.76	5.28	18.947		
900.00	900.00	898.00	898.00	3.00	3.00	-90.56	-0.98	-100.04	100.04	94.05	6.00	16.682		
1,000.00	1,000.00	998.00	998.00	3.36	3.35	-90.56	-0.98	-100.04	100.04	93.33	6.71	14.901		
1,100.00	1,100.00	1,098.00	1,098.00	3.72	3.71	-90.56	-0.98	-100.04	100.04	92.61	7.43	13.463		
1,200.00	1,200.00	1,198.00	1,198.00	4.08	4.07	-90.56	-0.98	-100.04	100.04	91.90	8.15	12.278		
1,300.00	1,300.00	1,298.00	1,298.00	4.44	4.43	-90.56	-0.98	-100.04	100.04	91.18	8.87	11.285		
1,305.90	1,305.90	1,303.90	1,303.90	4.46	4.45	-90.56	-0.98	-100.04	100.04	91.14	8.91	11.232 CC		
1,400.00	1,400.00	1,396.81	1,396.81	4.79	4.78	-90.52	-0.91	-100.32	100.33	90.76	9.57	10.480 ES		
1,500.00	1,500.00	1,494.26	1,494.23	5.15	5.12	-90.19	-0.35	-102.69	102.76	92.49	10.26	10.011		
1,600.00	1,600.00	1,591.53	1,591.37	5.51	5.46	-89.58	0.79	-107.47	107.67	96.72	10.95	9.833 SF		
1,700.00	1,700.00	1,688.48	1,688.04	5.87	5.80	-88.76	2.49	-114.62	115.08	103.45	11.63	9.896		
1,800.00	1,800.00	1,785.00	1,784.06	6.23	6.14	-87.81	4.75	-124.11	124.98	112.68	12.30	10.162		
1,900.00	1,900.00	1,880.97	1,879.26	6.59	6.48	-86.82	7.55	-135.88	137.38	124.42	12.96	10.601		
2,000.00	2,000.00	1,976.32	1,973.52	6.95	6.81	-85.85	10.88	-149.88	152.26	138.65	13.61	11.188		
2,100.00	2,099.99	2,074.77	2,070.65	7.30	7.17	-174.97	14.60	-165.48	169.64	155.34	14.30	11.865		
2,200.00	2,199.91	2,172.73	2,167.31	7.64	7.52	-174.33	18.29	-181.00	189.62	174.64	14.98	12.658		
2,300.00	2,299.69	2,270.14	2,263.42	7.98	7.87	-173.88	21.96	-196.43	212.15	196.49	15.66	13.547		
2,400.00	2,399.27	2,366.94	2,358.93	8.33	8.22	-173.57	25.61	-211.77	237.22	220.88	16.34	14.520		
2,500.00	2,498.57	2,463.06	2,453.76	8.68	8.57	-173.38	29.24	-227.00	264.80	247.79	17.01	15.565		
2,582.11	2,579.86	2,541.43	2,531.08	8.96	8.85	-173.28	32.19	-239.41	289.31	271.75	17.56	16.472		
2,600.00	2,597.54	2,558.44	2,547.87	9.03	8.92	-173.27	32.84	-242.11	294.83	277.15	17.68	16.671		
2,700.00	2,696.38	2,653.56	2,641.71	9.38	9.26	-173.25	36.42	-257.18	325.70	307.35	18.35	17.748		
2,800.00	2,795.22	2,748.67	2,735.56	9.73	9.61	-173.22	40.01	-272.25	356.57	337.55	19.02	18.748		
2,900.00	2,894.07	2,843.79	2,829.41	10.09	9.96	-173.20	43.60	-287.31	387.44	367.75	19.69	19.679		
3,000.00	2,992.91	2,938.91	2,923.25	10.44	10.31	-173.19	47.18	-302.38	418.31	397.95	20.36	20.546		
3,100.00	3,091.75	3,034.02	3,017.10	10.80	10.66	-173.17	50.77	-317.45	449.17	428.14	21.03	21.358		
3,200.00	3,190.59	3,129.14	3,110.95	11.16	11.01	-173.16	54.36	-332.52	480.04	458.34	21.70	22.117		
3,300.00	3,289.43	3,224.26	3,204.79	11.52	11.36	-173.15	57.95	-347.59	510.91	488.53	22.38	22.830		
3,400.00	3,388.27	3,319.37	3,298.64	11.88	11.71	-173.14	61.53	-362.66	541.78	518.73	23.05	23.500		
3,500.00	3,487.11	3,414.49	3,392.49	12.24	12.06	-173.13	65.12	-377.73	572.65	548.92	23.73	24.132		
3,600.00	3,585.95	3,509.60	3,486.33	12.60	12.41	-173.12	68.71	-392.80	603.52	579.11	24.41	24.727		
22,200.00	12,386.49	19,311.60	9,807.73	87.08	82.71	-37.64	9,890.85	-1,221.07	3,254.17	3,123.26	130.90	24.859		
22,300.00	12,386.04	19,411.60	9,807.84	87.74	83.40	-37.65	9,990.85	-1,221.78	3,253.76	3,121.80	131.96	24.658		
22,400.00	12,385.59	19,511.60	9,807.94	88.41	84.10	-37.66	10,090.85	-1,222.48	3,253.35	3,120.34	133.01	24.459		
22,500.00	12,385.14	19,611.60	9,808.05	89.08	84.80	-37.66	10,190.84	-1,223.18	3,252.94	3,118.87	134.07	24.263		
22,600.00	12,384.69	19,711.60	9,808.15	89.74	85.49	-37.67	10,290.84	-1,223.88	3,252.53	3,117.40	135.13	24.070		
22,700.00	12,384.24	19,811.60	9,808.26	90.41	86.19	-37.68	10,390.83	-1,224.58	3,252.12	3,115.93	136.19	23.879		
22,800.00	12,383.79	19,911.60	9,808.36	91.08	86.89	-37.68	10,490.83	-1,225.29	3,251.71	3,114.45	137.25	23.691		
22,900.00	12,383.34	20,011.59	9,808.46	91.76	87.60	-37.69	10,590.83	-1,225.99	3,251.30	3,112.98	138.32	23.506		
23,000.00	12,382.89	20,111.59	9,808.57	92.43	88.30	-37.70	10,690.82	-1,226.69	3,250.89	3,111.50	139.39	23.322		
23,100.00	12,382.44	20,211.59	9,808.67	93.11	89.00	-37.70	10,790.82	-1,227.39	3,250.48	3,110.02	140.46	23.142		
23,200.00	12,381.99	20,311.59	9,808.78	93.78	89.71	-37.71	10,890.81	-1,228.09	3,250.07	3,108.54	141.53	22.964		
23,300.00	12,381.54	20,411.59	9,808.88	94.46	90.41	-37.72	10,990.81	-1,228.79	3,249.66	3,107.05	142.60	22.788		
23,400.00	12,381.09	20,511.59	9,808.99	95.14	91.12	-37.72	11,090.81	-1,229.50	3,249.25	3,105.57	143.68	22.614		
23,420.60	12,381.00	20,532.18	9,809.01	95.28	91.26	-37.72	11,111.40	-1,229.64	3,249.16	3,105.26	143.90	22.579		
23,500.00	12,380.64	20,611.58	9,809.09	95.82	91.83	-37.73	11,190.80	-1,230.20	3,248.84	3,104.08	144.76	22.443		
23,510.60	12,380.60	20,614.92	9,809.09	95.89	91.85	-37.73	11,194.14	-1,230.22	3,248.80	3,103.95	144.85	22.428		

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 94H - #094H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	96.87	-22.92	190.21	191.59	183.43	8.16	23.492		
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	96.87	-22.92	190.21	191.59	182.71	8.87	21.594		
1,400.00	1,400.00	1,402.48	1,402.48	4.79	4.80	96.84	-22.76	189.89	191.26	181.67	9.59	19.934		
1,500.00	1,500.00	1,507.37	1,507.33	5.15	5.17	96.55	-21.50	187.30	188.67	178.36	10.31	18.293		
1,600.00	1,600.00	1,612.02	1,611.82	5.51	5.54	95.95	-18.98	182.14	183.50	172.48	11.03	16.641		
1,700.00	1,700.00	1,716.28	1,715.72	5.87	5.90	94.99	-15.22	174.44	175.81	164.08	11.73	14.984		
1,800.00	1,800.00	1,818.33	1,817.18	6.23	6.27	93.62	-10.42	164.63	165.85	153.42	12.43	13.338		
1,900.00	1,900.00	1,917.70	1,915.93	6.59	6.62	92.05	-5.54	154.63	155.55	142.41	13.14	11.837		
2,000.00	2,000.00	2,017.07	2,014.67	6.95	6.97	90.26	-0.66	144.64	145.38	131.53	13.85	10.497		
2,100.00	2,099.99	2,116.30	2,113.28	7.30	7.33	-1.82	4.22	134.65	134.07	119.52	14.55	9.215		
2,200.00	2,199.91	2,215.20	2,211.55	7.64	7.68	-4.37	9.08	124.71	120.38	105.14	15.24	7.898		
2,300.00	2,299.69	2,313.70	2,309.43	7.98	8.03	-7.77	13.92	114.80	104.41	88.48	15.94	6.552		
2,400.00	2,399.27	2,411.73	2,406.85	8.33	8.39	-12.75	18.74	104.93	86.41	69.77	16.63	5.195		
2,500.00	2,498.57	2,509.22	2,503.73	8.68	8.74	-21.01	23.53	95.13	66.93	49.60	17.34	3.861		
2,582.11	2,579.86	2,588.84	2,582.84	8.96	9.02	-33.22	27.44	87.12	50.97	33.04	17.93	2.843		
2,600.00	2,597.54	2,606.13	2,600.03	9.03	9.09	-36.98	28.29	85.38	47.75	29.69	18.06	2.644		
2,700.00	2,696.38	2,702.82	2,696.11	9.38	9.43	-67.97	33.04	75.65	35.69	16.88	18.81	1.897		
2,727.39	2,723.45	2,729.31	2,722.43	9.48	9.53	-78.89	34.34	72.99	35.00	15.99	19.00	1.842 CC, ES, SF		
2,800.00	2,795.22	2,799.52	2,792.20	9.73	9.78	-105.99	37.79	65.92	39.60	20.13	19.46	2.034		
2,900.00	2,894.07	2,896.21	2,888.28	10.09	10.13	-129.47	42.55	56.20	56.24	36.16	20.08	2.801		
3,000.00	2,992.91	2,992.90	2,984.37	10.44	10.48	-141.39	47.30	46.47	77.84	57.11	20.73	3.755		
3,100.00	3,091.75	3,089.59	3,080.45	10.80	10.83	-148.04	52.05	36.74	101.28	79.88	21.40	4.732		
3,200.00	3,190.59	3,186.29	3,176.54	11.16	11.18	-152.18	56.80	27.02	125.52	103.45	22.08	5.685		
3,300.00	3,289.43	3,282.98	3,272.62	11.52	11.53	-154.97	61.55	17.29	150.19	127.43	22.76	6.599		
3,400.00	3,388.27	3,379.67	3,368.71	11.88	11.88	-156.98	66.30	7.56	175.09	151.65	23.44	7.469		
3,500.00	3,487.11	3,476.36	3,464.79	12.24	12.23	-158.48	71.06	-2.17	200.15	176.02	24.13	8.296		
3,600.00	3,585.95	3,573.06	3,560.87	12.60	12.58	-159.65	75.81	-11.89	225.31	200.49	24.81	9.080		
3,700.00	3,684.79	3,669.75	3,656.96	12.96	12.93	-160.59	80.56	-21.62	250.54	225.04	25.50	9.825		
3,800.00	3,783.63	3,766.44	3,753.04	13.32	13.29	-161.35	85.31	-31.35	275.82	249.63	26.19	10.532		
3,900.00	3,882.48	3,863.13	3,849.13	13.68	13.64	-161.99	90.06	-41.07	301.13	274.26	26.88	11.204		
4,000.00	3,981.32	3,959.83	3,945.21	14.05	13.99	-162.53	94.81	-50.80	326.48	298.91	27.57	11.844		
4,100.00	4,080.16	4,056.52	4,041.30	14.41	14.34	-162.99	99.57	-60.53	351.85	323.59	28.26	12.453		
4,200.00	4,179.00	4,153.21	4,137.38	14.78	14.69	-163.39	104.32	-70.26	377.24	348.29	28.95	13.033		
4,300.00	4,277.84	4,249.90	4,233.47	15.14	15.04	-163.73	109.07	-79.98	402.64	373.01	29.64	13.586		
4,400.00	4,376.68	4,346.60	4,329.55	15.51	15.39	-164.04	113.82	-89.71	428.06	397.73	30.33	14.114		
4,500.00	4,475.52	4,443.29	4,425.64	15.87	15.75	-164.31	118.57	-99.44	453.48	422.46	31.02	14.619		
4,600.00	4,574.36	4,539.98	4,521.72	16.24	16.10	-164.56	123.32	-109.17	478.92	447.21	31.71	15.102		
4,700.00	4,673.20	4,636.67	4,617.80	16.60	16.45	-164.78	128.08	-118.89	504.36	471.96	32.40	15.565		
4,800.00	4,772.04	4,733.36	4,713.89	16.97	16.80	-164.97	132.83	-128.62	529.81	496.71	33.10	16.008		
4,900.00	4,870.89	4,830.06	4,809.97	17.34	17.15	-165.15	137.58	-138.35	555.26	521.47	33.79	16.433		
5,000.00	4,969.73	4,926.75	4,906.06	17.70	17.50	-165.32	142.33	-148.07	580.72	546.24	34.48	16.841		
5,100.00	5,068.57	5,023.44	5,002.14	18.07	17.86	-165.47	147.08	-157.80	606.18	571.00	35.18	17.232		
5,200.00	5,167.41	5,120.13	5,098.23	18.44	18.21	-165.61	151.83	-167.53	631.65	595.77	35.87	17.609		
5,300.00	5,266.25	5,216.83	5,194.31	18.81	18.56	-165.73	156.59	-177.26	657.11	620.55	36.57	17.971		
5,400.00	5,365.09	5,313.52	5,290.40	19.17	18.91	-165.85	161.34	-186.98	682.59	645.33	37.26	18.320		
5,500.00	5,463.93	5,410.21	5,386.48	19.54	19.26	-165.96	166.09	-196.71	708.06	670.11	37.95	18.655		
5,600.00	5,562.77	5,506.90	5,482.56	19.91	19.62	-166.06	170.84	-206.44	733.54	694.89	38.65	18.979		
5,700.00	5,661.61	5,603.60	5,578.65	20.28	19.97	-166.16	175.59	-216.16	759.01	719.67	39.35	19.291		
5,800.00	5,760.45	5,700.29	5,674.73	20.65	20.32	-166.25	180.34	-225.89	784.49	744.45	40.04	19.592		
5,900.00	5,859.30	5,796.98	5,770.82	21.02	20.67	-166.33	185.10	-235.62	809.98	769.24	40.74	19.883		
6,000.00	5,958.14	5,893.67	5,866.90	21.38	21.03	-166.41	189.85	-245.35	835.46	794.03	41.43	20.164		
6,100.00	6,056.98	5,990.37	5,962.99	21.75	21.38	-166.48	194.60	-255.07	860.94	818.82	42.13	20.436		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
6,200.00	6,155.82	6,087.06	6,059.07	22.12	21.73	-166.55	199.35	-264.80	886.43	843.61	42.83	20.699		
6,300.00	6,254.66	6,183.75	6,155.16	22.49	22.08	-166.62	204.10	-274.53	911.92	868.40	43.52	20.953		
6,400.00	6,353.50	6,280.44	6,251.24	22.86	22.44	-166.68	208.85	-284.25	937.41	893.19	44.22	21.199		
6,500.00	6,452.34	6,377.14	6,347.32	23.23	22.79	-166.74	213.61	-293.98	962.89	917.98	44.92	21.438		
6,600.00	6,551.18	6,473.83	6,443.41	23.60	23.14	-166.79	218.36	-303.71	988.38	942.77	45.61	21.669		
6,700.00	6,650.02	6,570.52	6,539.49	23.97	23.49	-166.85	223.11	-313.44	1,013.88	967.57	46.31	21.893		
6,800.00	6,748.86	6,667.21	6,635.58	24.34	23.85	-166.90	227.86	-323.16	1,039.37	992.36	47.01	22.111		
6,900.00	6,847.71	6,763.91	6,731.66	24.71	24.20	-166.94	232.61	-332.89	1,064.86	1,017.15	47.71	22.322		
7,000.00	6,946.55	6,860.60	6,827.75	25.08	24.55	-166.99	237.36	-342.62	1,090.35	1,041.95	48.40	22.526		
7,100.00	7,045.39	6,957.29	6,923.83	25.45	24.90	-167.03	242.12	-352.34	1,115.85	1,066.74	49.10	22.725		
7,200.00	7,144.23	7,053.98	7,019.92	25.82	25.26	-167.07	246.87	-362.07	1,141.34	1,091.54	49.80	22.919		
7,300.00	7,243.07	7,150.68	7,116.00	26.19	25.61	-167.11	251.62	-371.80	1,166.83	1,116.34	50.50	23.107		
7,400.00	7,341.91	7,247.37	7,212.09	26.56	25.96	-167.15	256.37	-381.53	1,192.33	1,141.13	51.20	23.289		
7,500.00	7,440.75	7,344.06	7,308.17	26.93	26.31	-167.19	261.12	-391.25	1,217.83	1,165.93	51.90	23.467		
7,600.00	7,539.59	7,440.75	7,404.25	27.30	26.67	-167.22	265.87	-400.98	1,243.32	1,190.73	52.59	23.640		
7,700.00	7,638.43	7,537.44	7,500.34	27.67	27.02	-167.26	270.63	-410.71	1,268.82	1,215.52	53.29	23.808		
7,800.00	7,737.27	7,646.04	7,608.27	28.04	27.42	-167.29	275.89	-421.48	1,294.20	1,240.12	54.08	23.932		
7,900.00	7,836.12	7,791.83	7,753.54	28.41	27.94	-167.38	281.23	-432.42	1,317.01	1,261.92	55.10	23.903		
8,000.00	7,934.96	7,939.93	7,901.48	28.78	28.47	-167.53	284.17	-438.43	1,336.17	1,280.10	56.07	23.832		
8,086.18	8,020.14	8,058.60	8,020.14	29.10	28.89	-167.68	284.73	-439.57	1,349.77	1,292.95	56.82	23.756		
8,100.00	8,033.80	8,072.26	8,033.80	29.15	28.94	-167.71	284.73	-439.57	1,351.80	1,294.88	56.91	23.751		
8,200.00	8,132.88	8,171.34	8,132.88	29.52	29.28	-167.87	284.73	-439.57	1,365.02	1,307.41	57.62	23.691		
8,300.00	8,232.28	8,270.74	8,232.28	29.88	29.63	-168.00	284.73	-439.57	1,375.71	1,317.39	58.32	23.589		
8,400.00	8,331.93	8,370.39	8,331.93	30.24	29.97	-168.10	284.73	-439.57	1,383.86	1,324.83	59.03	23.445		
8,500.00	8,431.76	8,470.22	8,431.76	30.60	30.32	-168.16	284.73	-439.57	1,389.45	1,329.72	59.73	23.262		
8,600.00	8,531.71	8,570.17	8,531.71	30.95	30.67	-168.20	284.73	-439.57	1,392.48	1,332.04	60.43	23.041		
8,668.29	8,600.00	8,638.46	8,600.00	31.19	30.91	-78.21	284.73	-439.57	1,393.08	1,332.17	60.91	22.871		
8,700.00	8,631.71	8,670.17	8,631.71	31.30	31.02	-78.21	284.73	-439.57	1,393.08	1,331.95	61.13	22.788		
8,800.00	8,731.71	8,770.17	8,731.71	31.64	31.37	-78.21	284.73	-439.57	1,393.08	1,331.25	61.83	22.532		
8,900.00	8,831.71	8,870.17	8,831.71	31.98	31.72	-78.21	284.73	-439.57	1,393.08	1,330.56	62.52	22.282		
8,900.48	8,832.19	8,870.65	8,832.19	31.98	31.72	-78.21	284.73	-439.57	1,393.08	1,330.55	62.52	22.281		
9,000.00	8,931.71	8,950.00	8,911.54	32.32	32.00	-78.20	284.98	-439.62	1,393.31	1,330.18	63.13	22.070		
9,100.00	9,031.71	9,000.00	8,961.33	32.66	32.18	-78.04	289.16	-440.29	1,396.47	1,332.89	63.58	21.964		
9,200.00	9,131.71	9,050.00	9,010.42	33.01	32.35	-77.68	298.46	-441.80	1,403.37	1,339.40	63.97	21.939		
9,300.00	9,231.71	9,092.56	9,051.23	33.35	32.50	-77.22	310.33	-443.72	1,414.14	1,349.91	64.23	22.017		
9,400.00	9,331.71	9,134.84	9,090.55	33.69	32.64	-76.63	325.63	-446.20	1,428.95	1,364.54	64.41	22.185		
9,500.00	9,431.71	9,175.00	9,126.49	34.04	32.77	-75.97	343.28	-449.06	1,447.94	1,383.46	64.49	22.454		
9,600.00	9,531.71	9,209.99	9,156.49	34.38	32.88	-75.30	361.05	-451.94	1,471.26	1,406.84	64.42	22.837		
9,700.00	9,631.71	9,250.00	9,189.07	34.73	32.99	-74.45	383.96	-455.65	1,499.01	1,434.68	64.33	23.301		
9,800.00	9,731.71	9,275.00	9,208.39	35.07	33.06	-73.88	399.61	-458.18	1,531.09	1,467.09	63.99	23.925		
9,900.00	9,831.71	9,300.00	9,226.86	35.42	33.12	-73.27	416.24	-460.87	1,567.55	1,503.97	63.58	24.654		

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 95H - #095H - ADP - Rev1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS												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	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	89.41	1.95	189.97	189.98	181.82	8.16	23.295	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	89.41	1.95	189.97	189.98	181.11	8.87	21.413	
1,400.00	1,400.00	1,400.00	1,400.60	4.79	4.80	89.31	2.27	189.89	189.90	180.31	9.59	19.800	
1,500.00	1,500.00	1,501.73	1,501.69	5.15	5.16	88.53	4.87	189.22	189.29	178.98	10.31	18.359	
1,600.00	1,600.00	1,601.82	1,601.69	5.51	5.52	87.23	9.11	188.12	188.35	177.33	11.03	17.083	
1,700.00	1,700.00	1,701.72	1,701.49	5.87	5.87	85.91	13.38	187.02	187.51	175.77	11.74	15.971	
1,800.00	1,800.00	1,801.63	1,801.30	6.23	6.23	84.58	17.65	185.92	186.76	174.31	12.46	14.994	
1,900.00	1,900.00	1,901.53	1,901.10	6.59	6.59	83.24	21.92	184.82	186.12	172.95	13.17	14.131	
2,000.00	2,000.00	2,001.43	2,000.91	6.95	6.95	81.89	26.19	183.72	185.58	171.69	13.89	13.364	
2,100.00	2,099.99	2,101.31	2,100.69	7.30	7.30	-9.54	30.46	182.62	183.85	169.26	14.59	12.598	
2,200.00	2,199.91	2,201.09	2,200.37	7.64	7.66	-11.16	34.73	181.52	179.67	164.38	15.29	11.749	
2,300.00	2,299.69	2,300.70	2,299.88	7.98	8.02	-13.05	38.99	180.42	173.09	157.10	15.99	10.824	
2,400.00	2,399.27	2,400.08	2,399.17	8.33	8.37	-15.34	43.23	179.33	164.19	147.50	16.69	9.837	
2,500.00	2,498.57	2,499.16	2,498.15	8.68	8.73	-18.20	47.47	178.23	153.10	135.71	17.39	8.804	
2,582.11	2,579.86	2,580.24	2,579.15	8.96	9.02	-21.15	50.93	177.34	142.49	124.52	17.96	7.932	
2,600.00	2,597.54	2,597.87	2,596.77	9.03	9.08	-21.87	51.69	177.14	140.05	121.96	18.09	7.742	
2,700.00	2,696.38	2,696.45	2,695.25	9.38	9.44	-26.37	55.90	176.06	126.88	108.09	18.79	6.753	
2,800.00	2,795.22	2,795.03	2,793.73	9.73	9.79	-31.86	60.12	174.97	114.66	95.17	19.49	5.882	
2,900.00	2,894.07	2,893.61	2,892.21	10.09	10.14	-38.56	64.33	173.89	103.73	83.53	20.20	5.135	
3,000.00	2,992.91	2,992.18	2,990.69	10.44	10.50	-46.66	68.54	172.80	94.55	73.63	20.91	4.521	
3,100.00	3,091.75	3,090.76	3,089.17	10.80	10.85	-56.23	72.76	171.71	87.66	66.02	21.63	4.052	
3,200.00	3,190.59	3,189.34	3,187.65	11.16	11.20	-67.03	76.97	170.63	83.62	61.27	22.35	3.741	
3,272.29	3,262.04	3,260.60	3,258.85	11.42	11.46	-75.27	80.02	169.84	82.73	59.86	22.87	3.618 CC	
3,300.00	3,289.43	3,287.91	3,286.14	11.52	11.56	-78.44	81.19	169.54	82.86	59.80	23.07	3.592 ES, SF	
3,400.00	3,388.27	3,386.49	3,384.62	11.88	11.91	-89.61	85.40	168.45	85.47	61.70	23.78	3.595	
3,500.00	3,487.11	3,485.07	3,483.10	12.24	12.26	-99.78	89.61	167.37	91.16	66.68	24.47	3.725	
3,600.00	3,585.95	3,583.65	3,581.58	12.60	12.62	-108.54	93.83	166.28	99.39	74.22	25.17	3.949	
3,700.00	3,684.79	3,682.22	3,680.06	12.96	12.97	-115.85	98.04	165.19	109.60	83.74	25.86	4.239	
3,800.00	3,783.63	3,780.80	3,778.54	13.32	13.32	-121.85	102.26	164.11	121.29	94.74	26.55	4.569	
3,900.00	3,882.48	3,879.38	3,877.02	13.68	13.68	-126.76	106.47	163.02	134.07	106.83	27.24	4.922	
4,000.00	3,981.32	3,977.96	3,975.50	14.05	14.03	-130.81	110.68	161.93	147.67	119.73	27.93	5.286	
4,100.00	4,080.16	4,076.53	4,073.99	14.41	14.38	-134.16	114.90	160.85	161.86	133.23	28.63	5.654	
4,200.00	4,179.00	4,175.11	4,172.47	14.78	14.74	-136.98	119.11	159.76	176.52	147.19	29.33	6.019	
4,300.00	4,277.84	4,273.69	4,270.95	15.14	15.09	-139.35	123.32	158.67	191.53	161.50	30.02	6.379	
4,400.00	4,376.68	4,372.27	4,369.43	15.51	15.44	-141.38	127.54	157.59	206.81	176.09	30.72	6.731	
4,500.00	4,475.52	4,470.84	4,467.91	15.87	15.80	-143.13	131.75	156.50	222.32	190.90	31.42	7.075	
4,600.00	4,574.36	4,569.42	4,566.39	16.24	16.15	-144.66	135.97	155.41	238.00	205.88	32.12	7.409	
4,700.00	4,673.20	4,668.00	4,664.87	16.60	16.50	-145.99	140.18	154.33	253.83	221.00	32.83	7.732	
4,800.00	4,772.04	4,766.58	4,763.35	16.97	16.86	-147.17	144.39	153.24	269.78	236.25	33.53	8.046	
4,900.00	4,870.89	4,865.15	4,861.84	17.34	17.21	-148.21	148.61	152.15	285.82	251.59	34.23	8.350	
5,000.00	4,969.73	4,963.73	4,960.32	17.70	17.56	-149.15	152.82	151.07	301.95	267.01	34.93	8.643	
5,100.00	5,068.57	5,062.31	5,058.80	18.07	17.92	-149.99	157.04	149.98	318.15	282.51	35.64	8.927	
5,200.00	5,167.41	5,160.88	5,157.28	18.44	18.27	-150.74	161.25	148.89	334.40	298.06	36.34	9.201	
5,300.00	5,266.25	5,259.46	5,255.76	18.81	18.62	-151.43	165.46	147.81	350.71	313.67	37.05	9.467	
5,400.00	5,365.09	5,358.04	5,354.24	19.17	18.98	-152.06	169.68	146.72	367.07	329.32	37.75	9.723	
5,500.00	5,463.93	5,456.62	5,452.72	19.54	19.33	-152.63	173.89	145.63	383.46	345.01	38.46	9.971	
5,600.00	5,562.77	5,555.19	5,551.20	19.91	19.68	-153.16	178.11	144.55	399.89	360.73	39.16	10.211	
5,700.00	5,661.61	5,653.77	5,649.69	20.28	20.04	-153.64	182.32	143.46	416.35	376.48	39.87	10.443	
5,800.00	5,760.45	5,752.35	5,748.17	20.65	20.39	-154.09	186.53	142.38	432.84	392.26	40.57	10.668	
5,900.00	5,859.30	5,850.93	5,846.65	21.02	20.74	-154.51	190.75	141.29	449.35	408.07	41.28	10.885	
6,000.00	5,958.14	5,949.50	5,945.13	21.38	21.10	-154.89	194.96	140.20	465.88	423.89	41.99	11.096	
6,100.00	6,056.98	6,048.08	6,043.61	21.75	21.45	-155.25	199.17	139.12	482.43	439.73	42.69	11.300	

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
6,200.00	6,155.82	6,146.66	6,142.09	22.12	21.80	-155.59	203.39	138.03	498.99	455.59	43.40	11.498		
6,300.00	6,254.66	6,245.24	6,240.57	22.49	22.16	-155.90	207.60	136.94	515.58	471.47	44.11	11.689		
6,400.00	6,353.50	6,343.81	6,339.05	22.86	22.51	-156.20	211.82	135.86	532.17	487.36	44.81	11.875		
6,500.00	6,452.34	6,442.39	6,437.54	23.23	22.87	-156.47	216.03	134.77	548.78	503.26	45.52	12.056		
6,600.00	6,551.18	6,540.97	6,536.02	23.60	23.22	-156.73	220.24	133.68	565.41	519.18	46.23	12.231		
6,700.00	6,650.02	6,639.54	6,634.50	23.97	23.57	-156.98	224.46	132.60	582.04	535.10	46.94	12.401		
6,800.00	6,748.86	6,738.12	6,732.98	24.34	23.93	-157.21	228.67	131.51	598.68	551.04	47.64	12.566		
6,900.00	6,847.71	6,836.70	6,831.46	24.71	24.28	-157.43	232.89	130.42	615.33	566.98	48.35	12.726		
7,000.00	6,946.55	6,935.28	6,929.94	25.08	24.63	-157.64	237.10	129.34	631.99	582.93	49.06	12.882		
7,100.00	7,045.39	7,033.85	7,028.42	25.45	24.99	-157.83	241.31	128.25	648.66	598.89	49.77	13.034		
7,200.00	7,144.23	7,132.43	7,126.90	25.82	25.34	-158.02	245.53	127.16	665.33	614.86	50.48	13.181		
7,300.00	7,243.07	7,231.01	7,225.38	26.19	25.69	-158.20	249.74	126.08	682.01	630.83	51.18	13.325		
7,400.00	7,341.91	7,329.59	7,323.87	26.56	26.05	-158.37	253.96	124.99	698.70	646.81	51.89	13.465		
7,500.00	7,440.75	7,428.16	7,422.35	26.93	26.40	-158.53	258.17	123.90	715.39	662.79	52.60	13.601		
7,600.00	7,539.59	7,526.74	7,520.83	27.30	26.75	-158.68	262.38	122.82	732.09	678.78	53.31	13.733		
7,700.00	7,638.43	7,625.32	7,619.31	27.67	27.11	-158.83	266.60	121.73	748.79	694.77	54.02	13.862		
7,800.00	7,737.27	7,723.90	7,717.79	28.04	27.46	-158.97	270.81	120.64	765.50	710.77	54.73	13.988		
7,900.00	7,836.12	7,822.47	7,816.27	28.41	27.81	-159.11	275.02	119.56	782.21	726.78	55.44	14.110		
8,000.00	7,934.96	7,921.39	7,915.13	28.78	28.21	-159.32	279.28	118.46	798.33	742.11	56.22	14.200		
8,086.18	8,020.14	8,006.41	8,000.14	29.10	28.54	-159.64	279.28	118.46	810.96	754.08	56.88	14.256		
8,100.00	8,033.80	8,040.07	8,033.80	29.15	28.59	-159.70	279.28	118.46	812.91	755.93	56.98	14.266		
8,200.00	8,132.88	8,139.15	8,132.88	29.52	28.95	-160.09	279.28	118.46	825.63	767.94	57.69	14.311		
8,300.00	8,232.28	8,238.55	8,232.28	29.88	29.30	-160.40	279.28	118.46	835.92	777.52	58.40	14.313		
8,400.00	8,331.93	8,338.20	8,331.93	30.24	29.66	-160.63	279.28	118.46	843.77	784.65	59.11	14.274		
8,500.00	8,431.76	8,438.03	8,431.76	30.60	30.02	-160.78	279.28	118.46	849.16	789.33	59.83	14.194		
8,600.00	8,531.71	8,537.98	8,531.71	30.95	30.37	-160.86	279.28	118.46	852.09	791.55	60.54	14.075		
8,668.29	8,600.00	8,606.27	8,600.00	31.19	30.62	-70.88	279.28	118.46	852.66	791.64	61.02	13.974		
8,700.00	8,631.71	8,637.98	8,631.71	31.30	30.73	-70.88	279.28	118.46	852.66	791.42	61.24	13.923		
8,800.00	8,731.71	8,737.98	8,731.71	31.64	31.09	-70.88	279.28	118.46	852.66	790.72	61.94	13.765		
8,900.00	8,831.71	8,837.98	8,831.71	31.98	31.45	-70.88	279.28	118.46	852.66	790.02	62.65	13.611		
9,000.00	8,931.71	8,937.98	8,931.71	32.32	31.81	-70.88	279.28	118.46	852.66	789.31	63.35	13.460		
9,100.00	9,031.71	9,037.98	9,031.71	32.66	32.16	-70.88	279.28	118.46	852.66	788.61	64.05	13.312		
9,200.00	9,131.71	9,137.98	9,131.71	33.01	32.52	-70.88	279.28	118.46	852.66	787.91	64.75	13.168		
9,300.00	9,231.71	9,237.98	9,231.71	33.35	32.88	-70.88	279.28	118.46	852.66	787.21	65.46	13.026		
9,400.00	9,331.71	9,337.98	9,331.71	33.69	33.24	-70.88	279.28	118.46	852.66	786.50	66.16	12.888		
9,500.00	9,431.71	9,437.98	9,431.71	34.04	33.59	-70.55	284.24	119.16	854.00	787.30	66.71	12.803		
9,600.00	9,531.71	9,537.98	9,531.71	34.38	33.93	-69.55	299.44	121.30	858.63	791.47	67.16	12.785		
9,700.00	9,631.71	9,637.98	9,631.71	34.73	34.28	-68.04	322.49	124.53	867.28	799.80	67.48	12.852		
9,800.00	9,731.71	9,737.98	9,731.71	35.07	34.62	-66.32	349.05	128.27	880.86	813.29	67.57	13.036		
9,900.00	9,831.71	9,837.98	9,831.71	35.42	34.97	-64.52	377.32	132.24	900.24	832.85	67.40	13.357		
10,000.00	9,931.71	9,937.98	9,931.71	35.76	35.31	-62.83	404.54	136.07	926.02	859.11	66.92	13.838		
10,100.00	10,031.71	10,037.98	10,031.71	36.11	35.66	-61.21	430.98	139.78	958.48	892.30	66.18	14.483		
10,200.00	10,131.71	10,137.98	10,131.71	36.45	36.00	-59.54	458.97	143.72	997.62	932.32	65.30	15.278		
10,300.00	10,231.71	10,237.98	10,231.71	36.80	36.35	-58.38	478.79	146.50	1,043.06	978.96	64.10	16.273		
10,400.00	10,331.71	10,337.98	10,331.71	37.14	36.69	-57.20	499.36	149.39	1,094.45	1,031.58	62.87	17.409		
10,500.00	10,431.71	10,437.98	10,431.71	37.49	37.04	-56.27	515.69	151.69	1,151.18	1,089.63	61.55	18.704		
10,600.00	10,531.71	10,537.98	10,531.71	37.84	37.39	-56.00	520.62	152.37	1,212.80	1,152.76	60.04	20.201		
10,700.00	10,631.71	10,637.98	10,631.71	38.18	37.73	-54.80	542.53	155.18	1,278.65	1,219.67	58.98	21.678		
10,800.00	10,731.71	10,737.98	10,731.71	38.53	38.08	-54.80	542.53	155.18	1,348.36	1,290.77	57.59	23.412		
22,500.00	12,385.14	12,391.39	12,385.14	89.08	84.15	-14.42	10,198.04	104.44	2,649.74	2,542.96	106.79	24.814		
22,600.00	12,384.69	12,390.94	12,384.69	89.74	84.84	-14.42	10,298.04	103.78	2,649.30	2,541.66	107.64	24.612		
22,700.00	12,384.24	12,390.49	12,384.24	90.41	85.54	-14.43	10,398.03	103.12	2,648.85	2,540.35	108.50	24.412		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 95H - #095H - ADP - Rev1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS												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	
22,800.00	12,383.79	19,839.19	9,818.93	91.08	86.24	-14.43	10,498.03	102.46	2,648.41	2,539.04	109.37	24.216	
22,900.00	12,383.34	19,939.19	9,818.94	91.76	86.94	-14.43	10,598.03	101.80	2,647.96	2,537.73	110.23	24.022	
23,000.00	12,382.89	20,039.19	9,818.95	92.43	87.65	-14.44	10,698.02	101.14	2,647.52	2,536.42	111.10	23.831	
23,100.00	12,382.44	20,139.19	9,818.96	93.11	88.35	-14.44	10,798.02	100.47	2,647.07	2,535.11	111.96	23.643	
23,200.00	12,381.99	20,239.19	9,818.97	93.78	89.05	-14.44	10,898.02	99.81	2,646.63	2,533.80	112.83	23.457	
23,300.00	12,381.54	20,339.19	9,818.99	94.46	89.76	-14.44	10,998.02	99.15	2,646.18	2,532.48	113.70	23.273	
23,400.00	12,381.09	20,439.19	9,819.00	95.14	90.46	-14.45	11,098.01	98.49	2,645.74	2,531.17	114.57	23.092	
23,420.60	12,381.00	20,459.78	9,819.00	95.28	90.61	-14.45	11,118.61	98.36	2,645.65	2,530.89	114.75	23.056	
23,500.00	12,380.64	20,539.19	9,819.01	95.82	91.17	-14.45	11,198.01	97.83	2,645.29	2,529.85	115.44	22.914	
23,510.60	12,380.60	20,547.69	9,819.01	95.89	91.23	-14.45	11,206.51	97.78	2,645.25	2,529.71	115.54	22.895	

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 96H - #096H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
3,000.00	2,992.91	2,965.39	2,961.49	10.44	10.37	-7.93	67.69	594.21	492.26	471.55	20.71	23.770		
3,100.00	3,091.75	3,064.88	3,060.70	10.80	10.72	-8.58	71.91	600.24	483.79	462.38	21.41	22.594		
3,200.00	3,190.59	3,164.37	3,159.92	11.16	11.08	-9.25	76.13	606.26	475.39	453.28	22.12	21.494		
3,300.00	3,289.43	3,263.86	3,259.14	11.52	11.44	-9.94	80.35	612.28	467.06	444.24	22.82	20.464		
3,400.00	3,388.27	3,363.35	3,358.36	11.88	11.79	-10.66	84.57	618.31	458.80	435.27	23.53	19.499		
3,500.00	3,487.11	3,462.84	3,457.57	12.24	12.15	-11.40	88.79	624.33	450.61	426.37	24.24	18.591		
3,600.00	3,585.95	3,562.33	3,556.79	12.60	12.51	-12.17	93.02	630.36	442.50	417.56	24.95	17.738		
3,700.00	3,684.79	3,661.82	3,656.01	12.96	12.87	-12.97	97.24	636.38	434.48	408.82	25.66	16.935		
3,800.00	3,783.63	3,761.31	3,755.23	13.32	13.22	-13.80	101.46	642.41	426.54	400.17	26.37	16.177		
3,900.00	3,882.48	3,860.80	3,854.44	13.68	13.58	-14.66	105.68	648.43	418.69	391.61	27.08	15.462		
4,000.00	3,981.32	3,960.29	3,953.66	14.05	13.94	-15.56	109.90	654.45	410.94	383.15	27.79	14.787		
4,100.00	4,080.16	4,059.78	4,052.88	14.41	14.30	-16.48	114.12	660.48	403.30	374.79	28.50	14.149		
4,200.00	4,179.00	4,159.27	4,152.10	14.78	14.65	-17.45	118.34	666.50	395.76	366.54	29.22	13.545		
4,300.00	4,277.84	4,258.76	4,251.31	15.14	15.01	-18.45	122.56	672.53	388.34	358.41	29.93	12.973		
4,400.00	4,376.68	4,358.25	4,350.53	15.51	15.37	-19.48	126.78	678.55	381.04	350.39	30.65	12.432		
4,500.00	4,475.52	4,457.74	4,449.75	15.87	15.73	-20.56	131.00	684.58	373.88	342.51	31.37	11.919		
4,600.00	4,574.36	4,557.23	4,548.97	16.24	16.08	-21.68	135.22	690.60	366.85	334.76	32.09	11.433		
4,700.00	4,673.20	4,656.72	4,648.18	16.60	16.44	-22.84	139.44	696.63	359.96	327.16	32.81	10.972		
4,800.00	4,772.04	4,756.21	4,747.40	16.97	16.80	-24.05	143.66	702.65	353.23	319.71	33.53	10.536		
4,900.00	4,870.89	4,855.70	4,846.62	17.34	17.16	-25.30	147.88	708.67	346.67	312.42	34.25	10.122		
5,000.00	4,969.73	4,955.19	4,945.84	17.70	17.52	-26.60	152.10	714.70	340.27	305.30	34.97	9.730		
5,100.00	5,068.57	5,054.68	5,045.05	18.07	17.87	-27.95	156.32	720.72	334.06	298.36	35.70	9.358		
5,200.00	5,167.41	5,154.17	5,144.27	18.44	18.23	-29.35	160.54	726.75	328.04	291.62	36.42	9.006		
5,300.00	5,266.25	5,253.66	5,243.49	18.81	18.59	-30.80	164.76	732.77	322.23	285.08	37.15	8.674		
5,400.00	5,365.09	5,353.15	5,342.71	19.17	18.95	-32.31	168.98	738.80	316.62	278.75	37.88	8.359		
5,500.00	5,463.93	5,452.64	5,441.92	19.54	19.31	-33.86	173.20	744.82	311.25	272.64	38.61	8.062		
5,600.00	5,562.77	5,552.13	5,541.14	19.91	19.67	-35.47	177.42	750.84	306.11	266.77	39.34	7.781		
5,700.00	5,661.61	5,651.62	5,640.36	20.28	20.02	-37.13	181.64	756.87	301.23	261.15	40.07	7.517		
5,800.00	5,760.45	5,751.11	5,739.58	20.65	20.38	-38.84	185.86	762.89	296.60	255.80	40.81	7.268		
5,900.00	5,859.30	5,850.60	5,838.79	21.02	20.74	-40.61	190.08	768.92	292.26	250.71	41.54	7.035		
6,000.00	5,958.14	5,950.09	5,938.01	21.38	21.10	-42.43	194.30	774.94	288.20	245.92	42.28	6.817		
6,100.00	6,056.98	6,049.57	6,037.23	21.75	21.46	-44.29	198.52	780.97	284.44	241.42	43.02	6.612		
6,200.00	6,155.82	6,149.06	6,136.45	22.12	21.81	-46.21	202.74	786.99	280.99	237.23	43.76	6.422		
6,300.00	6,254.66	6,248.55	6,235.66	22.49	22.17	-48.17	206.97	793.01	277.86	233.37	44.50	6.245		
6,400.00	6,353.50	6,348.04	6,334.88	22.86	22.53	-50.17	211.19	799.04	275.07	229.84	45.24	6.081		
6,500.00	6,452.34	6,447.53	6,434.10	23.23	22.89	-52.21	215.41	805.06	272.63	226.65	45.98	5.929		
6,600.00	6,551.18	6,547.02	6,533.32	23.60	23.25	-54.28	219.63	811.09	270.54	223.82	46.72	5.791		
6,700.00	6,650.02	6,646.51	6,632.53	23.97	23.61	-56.38	223.85	817.11	268.81	221.35	47.46	5.664		
6,800.00	6,748.86	6,746.00	6,731.75	24.34	23.96	-58.51	228.07	823.14	267.45	219.25	48.21	5.548		
6,900.00	6,847.71	6,845.49	6,830.97	24.71	24.32	-60.65	232.29	829.16	266.47	217.52	48.95	5.444		
7,000.00	6,946.55	6,944.98	6,930.19	25.08	24.68	-62.81	236.51	835.18	265.87	216.18	49.69	5.351		
7,100.00	7,045.39	7,044.47	7,029.40	25.45	25.04	-64.97	240.73	841.21	265.65	215.22	50.43	5.268		
7,107.69	7,052.99	7,052.12	7,037.03	25.48	25.07	-65.14	241.05	841.67	265.64	215.16	50.49	5.262 CC		
7,200.00	7,144.23	7,143.96	7,128.62	25.82	25.40	-67.14	244.95	847.23	265.81	214.64	51.17	5.195		
7,300.00	7,243.07	7,243.45	7,227.84	26.19	25.76	-69.29	249.17	853.26	266.35	214.44	51.91	5.131 ES		
7,400.00	7,341.91	7,342.94	7,327.06	26.56	26.12	-71.44	253.39	859.28	267.28	214.63	52.65	5.077		
7,500.00	7,440.75	7,442.43	7,426.27	26.93	26.47	-73.57	257.61	865.31	268.58	215.20	53.38	5.031		
7,600.00	7,539.59	7,541.92	7,525.49	27.30	26.83	-75.68	261.83	871.33	270.25	216.13	54.12	4.994		
7,700.00	7,638.43	7,641.41	7,624.71	27.67	27.19	-77.75	266.05	877.35	272.28	217.44	54.85	4.964		
7,800.00	7,737.27	7,740.90	7,723.93	28.04	27.55	-79.80	270.27	883.38	274.67	219.10	55.58	4.942		
7,900.00	7,836.12	7,840.39	7,823.14	28.41	27.91	-81.80	274.49	889.40	277.41	221.10	56.31	4.927		
8,000.00	7,934.96	7,939.88	7,922.36	28.78	28.27	-83.77	278.71	895.43	280.49	223.45	57.03	4.918		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A05_Wild Salsa - Wild Salsa Fed Com 96H - #096H - ADP - Rev1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+SAG+MS													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		
8,086.18	8,020.14	8,025.62	8,007.87	29.10	28.57	-85.43	282.35	900.62	283.40	225.74	57.66	4.915		
8,100.00	8,033.80	8,039.37	8,021.58	29.15	28.62	-85.69	282.93	901.45	283.89	226.13	57.76	4.915		
8,200.00	8,132.88	8,139.00	8,120.93	29.52	28.98	-87.30	287.16	907.48	287.67	229.19	58.48	4.919		
8,300.00	8,232.28	8,238.92	8,220.58	29.88	29.34	-88.35	291.40	913.53	291.73	232.53	59.20	4.928		
8,400.00	8,331.93	8,343.55	8,325.02	30.24	29.72	-89.12	294.97	918.63	295.07	235.12	59.95	4.922		
8,500.00	8,431.76	8,448.19	8,429.61	30.60	30.09	-89.78	296.90	921.38	296.88	236.21	60.68	4.893		
8,600.00	8,531.71	8,551.30	8,532.71	30.95	30.46	-90.30	297.27	921.92	297.24	235.86	61.39	4.842		
8,668.29	8,600.00	8,619.59	8,601.00	31.19	30.70	-0.42	297.27	921.92	297.25	235.38	61.86	4.805		
8,700.00	8,631.71	8,651.29	8,632.71	31.30	30.81	-0.42	297.27	921.92	297.25	235.16	62.08	4.788		
8,800.00	8,731.71	8,751.29	8,732.71	31.64	31.16	-0.42	297.27	921.92	297.25	234.47	62.78	4.735		
8,900.00	8,831.71	8,851.29	8,832.71	31.98	31.51	-0.42	297.27	921.92	297.25	233.78	63.47	4.683		
8,905.73	8,837.43	8,857.02	8,838.43	32.00	31.54	-0.42	297.27	921.92	297.25	233.74	63.51	4.680		
9,000.00	8,931.71	8,942.01	8,923.42	32.32	31.83	-0.43	297.51	921.85	297.63	233.50	64.13	4.641 SF		
9,100.00	9,031.71	9,000.00	8,981.12	32.66	32.04	-0.69	302.70	920.44	307.06	242.93	64.13	4.788		
9,200.00	9,131.71	9,063.02	9,042.58	33.01	32.25	-1.32	315.95	916.84	328.60	265.00	63.60	5.167		
9,300.00	9,231.71	9,118.27	9,094.58	33.35	32.43	-2.08	333.90	911.96	361.52	299.14	62.39	5.795		
9,400.00	9,331.71	9,168.60	9,139.78	33.69	32.58	-2.89	355.20	906.18	404.58	343.81	60.78	6.657		
9,500.00	9,431.71	9,213.67	9,178.10	34.04	32.71	-3.65	378.08	899.96	456.43	397.46	58.97	7.740		
9,600.00	9,531.71	9,250.00	9,207.24	34.38	32.80	-4.27	398.99	894.28	515.74	458.82	56.92	9.061		
9,700.00	9,631.71	9,288.71	9,236.39	34.73	32.89	-4.93	423.56	887.60	581.18	525.84	55.34	10.502		
9,800.00	9,731.71	9,325.00	9,261.76	35.07	32.96	-5.51	448.58	880.80	651.82	597.85	53.97	12.077		
9,900.00	9,831.71	9,350.00	9,278.06	35.42	33.01	-5.90	466.87	875.83	726.57	674.19	52.38	13.870		
10,000.00	9,931.71	9,375.00	9,293.34	35.76	33.05	-6.28	485.96	870.65	804.84	753.72	51.13	15.742		
10,100.00	10,031.71	9,391.43	9,302.82	36.11	33.07	-6.51	498.92	867.13	885.93	836.11	49.82	17.782		
10,200.00	10,131.71	9,410.03	9,312.97	36.45	33.11	-6.78	513.96	863.04	969.44	920.57	48.87	19.839		
10,300.00	10,231.71	9,426.59	9,321.50	36.80	33.15	-7.00	527.65	859.32	1,054.93	1,006.87	48.06	21.950		
10,400.00	10,331.71	9,450.00	9,332.76	37.14	33.20	-7.28	547.52	854.20	1,142.16	1,094.52	47.64	23.976		

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A06_Offset Wild Salsa - W01 DIAMONDTAIL 24 FEDERAL #1 33344 - D #1 - Inc Only													Offset Site Error:	0.00 usft
Survey Program: 499-INC-ONLY													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		
8,200.00	8,132.88	8,113.68	8,112.04	29.52	176.01	-149.10	2,600.28	-3,480.78	5,090.44	4,885.56	204.88	24.846		
8,300.00	8,232.28	8,204.95	8,203.28	29.88	177.84	-149.23	2,600.02	-3,480.78	5,099.70	4,892.64	207.06	24.629		
8,400.00	8,331.93	8,304.60	8,302.93	30.24	180.05	-149.33	2,600.02	-3,480.78	5,106.86	4,897.23	209.63	24.361		
8,500.00	8,431.76	8,404.44	8,402.76	30.60	182.27	-149.40	2,600.02	-3,480.78	5,111.78	4,899.58	212.20	24.090		
8,600.00	8,531.71	8,514.13	8,512.45	30.95	184.70	-149.43	2,600.85	-3,480.78	5,114.87	4,899.88	214.99	23.791		
8,668.29	8,600.00	8,589.83	8,588.14	31.19	186.38	-59.44	2,600.46	-3,480.78	5,115.22	4,898.31	216.91	23.582		
8,700.00	8,631.71	8,624.98	8,623.28	31.30	187.16	-59.45	2,600.20	-3,480.78	5,115.10	4,897.30	217.80	23.485		
8,800.00	8,731.71	8,704.47	8,702.71	31.64	188.92	-59.45	2,600.02	-3,480.78	5,114.97	4,895.07	219.90	23.260		
8,900.00	8,831.71	8,804.47	8,802.71	31.98	191.14	-59.45	2,600.02	-3,480.78	5,114.97	4,892.50	222.46	22.992		
9,000.00	8,931.71	8,904.47	8,902.71	32.32	193.36	-59.45	2,600.02	-3,480.78	5,114.97	4,889.94	225.03	22.730		
9,100.00	9,031.71	9,015.51	9,013.73	32.66	195.83	-59.44	2,601.25	-3,480.78	5,115.60	4,887.76	227.84	22.452		
9,200.00	9,131.71	9,127.52	9,125.73	33.01	198.31	-59.44	2,600.52	-3,480.78	5,115.27	4,884.60	230.68	22.175		
9,300.00	9,231.71	9,204.57	9,202.71	33.35	200.10	-59.45	2,600.02	-3,480.78	5,114.97	4,882.17	232.80	21.972		
9,400.00	9,331.71	9,304.57	9,302.71	33.69	202.60	-59.45	2,600.02	-3,480.78	5,114.97	4,879.32	235.65	21.706		
9,500.00	9,431.71	9,404.57	9,402.71	34.04	205.11	-59.45	2,600.02	-3,480.78	5,114.97	4,876.47	238.50	21.446		
9,600.00	9,531.71	9,512.31	9,510.43	34.38	207.81	-59.44	2,600.98	-3,480.78	5,115.46	4,873.91	241.55	21.178		
9,700.00	9,631.71	9,622.35	9,620.46	34.73	210.56	-59.44	2,600.45	-3,480.78	5,115.21	4,870.56	244.66	20.908		
9,800.00	9,731.71	9,704.75	9,702.71	35.07	212.63	-59.45	2,600.02	-3,480.78	5,114.97	4,867.90	247.06	20.703		
9,900.00	9,831.71	9,806.35	9,804.29	35.42	215.18	-59.44	2,601.11	-3,480.78	5,115.52	4,865.56	249.96	20.466		
10,000.00	9,931.71	9,963.57	9,961.46	35.76	219.12	-59.46	2,599.29	-3,480.78	5,114.93	4,860.68	254.25	20.117		
10,005.44	9,937.15	9,972.13	9,970.01	35.78	219.33	-59.46	2,599.09	-3,480.78	5,114.87	4,860.38	254.49	20.099		
10,100.00	10,031.71	10,004.84	10,002.71	36.11	219.85	-59.45	2,600.02	-3,480.78	5,114.97	4,859.64	255.33	20.033		
10,200.00	10,131.71	10,104.84	10,102.71	36.45	221.97	-59.45	2,600.02	-3,480.78	5,114.97	4,857.17	257.80	19.841		
10,300.00	10,231.71	10,204.84	10,202.71	36.80	224.10	-59.45	2,600.02	-3,480.78	5,114.97	4,854.70	260.27	19.653		
10,314.95	10,246.66	10,219.79	10,217.66	36.85	224.41	-59.45	2,600.02	-3,480.78	5,114.97	4,854.33	260.64	19.625		
10,400.00	10,331.71	10,300.00	10,297.81	37.14	226.12	-59.45	2,600.02	-3,480.78	5,114.97	4,852.33	262.64	19.476		
10,500.00	10,431.71	10,300.00	10,297.81	37.49	226.12	-59.45	2,600.02	-3,480.78	5,116.04	4,853.15	262.89	19.460		
10,600.00	10,531.71	10,300.00	10,297.81	37.84	226.12	-59.45	2,600.02	-3,480.78	5,119.07	4,856.01	263.06	19.460		
10,700.00	10,631.71	10,300.00	10,297.81	38.18	226.12	-59.45	2,600.02	-3,480.78	5,124.05	4,860.92	263.13	19.473		
10,800.00	10,731.71	10,300.00	10,297.81	38.53	226.12	-59.45	2,600.02	-3,480.78	5,130.97	4,867.86	263.11	19.501		
10,900.00	10,831.71	10,300.00	10,297.81	38.88	226.12	-59.45	2,600.02	-3,480.78	5,139.83	4,876.83	263.00	19.543		
11,000.00	10,931.71	10,300.00	10,297.81	39.23	226.12	-59.45	2,600.02	-3,480.78	5,150.61	4,887.81	262.80	19.599		
11,100.00	11,031.71	10,300.00	10,297.81	39.57	226.12	-59.45	2,600.02	-3,480.78	5,163.31	4,900.80	262.51	19.669		
11,200.00	11,131.71	10,300.00	10,297.81	39.92	226.12	-59.45	2,600.02	-3,480.78	5,177.91	4,915.78	262.13	19.753		
11,300.00	11,231.71	10,300.00	10,297.81	40.27	226.12	-59.45	2,600.02	-3,480.78	5,194.39	4,932.72	261.68	19.851		
11,400.00	11,331.71	10,300.00	10,297.81	40.62	226.12	-59.45	2,600.02	-3,480.78	5,212.74	4,951.61	261.14	19.962		
11,500.00	11,431.71	10,300.00	10,297.81	40.97	226.12	-59.45	2,600.02	-3,480.78	5,232.94	4,972.42	260.52	20.087		
11,600.00	11,531.71	10,300.00	10,297.81	41.32	226.12	-59.45	2,600.02	-3,480.78	5,254.97	4,995.14	259.82	20.225		
11,700.00	11,631.71	10,300.00	10,297.81	41.66	226.12	-59.45	2,600.02	-3,480.78	5,278.79	5,019.73	259.06	20.377		
11,800.00	11,731.71	10,300.00	10,297.81	42.01	226.12	-59.45	2,600.02	-3,480.78	5,304.40	5,046.17	258.23	20.542		
11,900.00	11,831.71	10,300.00	10,297.81	42.36	226.12	-59.45	2,600.02	-3,480.78	5,331.75	5,074.43	257.33	20.720		
12,000.00	11,931.71	10,300.00	10,297.81	42.71	226.12	-59.45	2,600.02	-3,480.78	5,360.84	5,104.47	256.36	20.911		
12,012.62	11,944.33	10,300.00	10,297.81	42.76	226.12	-59.45	2,600.02	-3,480.78	5,364.63	5,108.39	256.24	20.936		
12,025.00	11,956.71	10,300.00	10,297.81	42.80	226.12	-43.93	2,600.02	-3,480.78	5,368.27	5,112.15	256.11	20.961		
12,050.00	11,981.67	10,300.00	10,297.81	42.89	226.12	-43.35	2,600.02	-3,480.78	5,375.01	5,119.16	255.85	21.008		
12,075.00	12,006.53	10,300.00	10,297.81	42.97	226.12	-42.85	2,600.02	-3,480.78	5,380.94	5,125.35	255.59	21.053		
12,100.00	12,031.22	10,300.00	10,297.81	43.06	226.12	-42.43	2,600.02	-3,480.78	5,386.05	5,130.74	255.32	21.096		
12,125.00	12,055.67	10,300.00	10,297.81	43.14	226.12	-42.08	2,600.02	-3,480.78	5,390.32	5,135.28	255.04	21.135		
12,150.00	12,079.82	10,300.00	10,297.81	43.22	226.12	-41.80	2,600.02	-3,480.78	5,393.75	5,138.99	254.75	21.173		
12,175.00	12,103.60	10,300.00	10,297.81	43.30	226.12	-41.59	2,600.02	-3,480.78	5,396.32	5,141.85	254.46	21.207		
12,200.00	12,126.93	10,300.00	10,297.81	43.38	226.12	-41.46	2,600.02	-3,480.78	5,398.02	5,143.86	254.17	21.238		
12,225.00	12,149.77	10,300.00	10,297.81	43.45	226.12	-41.39	2,600.02	-3,480.78	5,398.87	5,145.00	253.87	21.266		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 499-INC-ONLY													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		
12,250.00	12,172.05	10,300.00	10,297.81	43.52	226.12	-41.39	2,600.02	-3,480.78	5,398.85	5,145.28	253.57	21.291		
12,275.00	12,193.70	10,300.00	10,297.81	43.59	226.12	-41.46	2,600.02	-3,480.78	5,397.96	5,144.70	253.27	21.313		
12,300.00	12,214.67	10,300.00	10,297.81	43.65	226.12	-41.60	2,600.02	-3,480.78	5,396.21	5,143.25	252.96	21.332		
12,325.00	12,234.89	10,300.00	10,297.81	43.71	226.12	-41.81	2,600.02	-3,480.78	5,393.60	5,140.95	252.66	21.348		
12,350.00	12,254.33	10,300.00	10,297.81	43.77	226.12	-42.09	2,600.02	-3,480.78	5,390.14	5,137.79	252.35	21.360		
12,375.00	12,272.91	10,300.00	10,297.81	43.82	226.12	-42.44	2,600.02	-3,480.78	5,385.82	5,133.78	252.05	21.368		
12,400.00	12,290.59	10,300.00	10,297.81	43.87	226.12	-42.87	2,600.02	-3,480.78	5,380.68	5,128.93	251.74	21.374		
12,425.00	12,307.32	10,300.00	10,297.81	43.91	226.12	-43.38	2,600.02	-3,480.78	5,374.71	5,123.26	251.45	21.375		
12,450.00	12,323.05	10,300.00	10,297.81	43.95	226.12	-43.96	2,600.02	-3,480.78	5,367.92	5,116.77	251.15	21.373		
12,475.00	12,337.75	10,300.00	10,297.81	43.98	226.12	-44.63	2,600.02	-3,480.78	5,360.34	5,109.48	250.87	21.367		
12,500.00	12,351.37	10,300.00	10,297.81	44.01	226.12	-45.38	2,600.02	-3,480.78	5,351.99	5,101.40	250.59	21.358		
12,512.62	12,357.83	10,300.00	10,297.81	44.03	226.12	-45.79	2,600.02	-3,480.78	5,347.48	5,097.03	250.45	21.352		
12,525.00	12,363.89	10,300.00	10,297.81	44.04	226.12	-46.74	2,600.02	-3,480.78	5,342.93	5,092.62	250.31	21.345		
12,550.00	12,375.38	10,300.00	10,297.81	44.06	226.12	-48.61	2,600.02	-3,480.78	5,333.58	5,083.53	250.05	21.330		
12,575.00	12,385.81	10,300.00	10,297.81	44.08	226.12	-50.43	2,600.02	-3,480.78	5,324.02	5,074.22	249.80	21.313		
12,600.00	12,395.16	10,300.00	10,297.81	44.10	226.12	-52.19	2,600.02	-3,480.78	5,314.28	5,064.71	249.57	21.294		
12,625.00	12,403.40	10,300.00	10,297.81	44.11	226.12	-53.90	2,600.02	-3,480.78	5,304.38	5,055.03	249.35	21.273		
12,650.00	12,410.52	10,300.00	10,297.81	44.12	226.12	-55.57	2,600.02	-3,480.78	5,294.35	5,045.20	249.14	21.250		
12,675.00	12,416.49	10,300.00	10,297.81	44.13	226.12	-57.19	2,600.02	-3,480.78	5,284.21	5,035.25	248.96	21.225		
12,700.00	12,421.30	10,300.00	10,297.81	44.14	226.12	-58.76	2,600.02	-3,480.78	5,274.00	5,025.20	248.79	21.198		
12,725.00	12,424.93	10,300.00	10,297.81	44.14	226.12	-60.28	2,600.02	-3,480.78	5,263.73	5,015.09	248.65	21.170		
12,750.00	12,427.37	10,300.00	10,297.81	44.14	226.12	-61.75	2,600.02	-3,480.78	5,253.45	5,004.93	248.52	21.139		
12,775.00	12,428.61	10,300.00	10,297.81	44.14	226.12	-63.16	2,600.02	-3,480.78	5,243.17	4,994.76	248.42	21.106		
12,790.87	12,428.78	10,300.00	10,297.81	44.14	226.12	-64.03	2,600.02	-3,480.78	5,236.66	4,988.30	248.36	21.085		
12,800.00	12,428.74	10,300.00	10,297.81	44.14	226.12	-64.03	2,600.02	-3,480.78	5,232.93	4,984.60	248.33	21.072		
12,900.00	12,428.29	10,300.00	10,297.81	44.14	226.12	-64.03	2,600.02	-3,480.78	5,192.93	4,944.90	248.03	20.937		
13,000.00	12,427.84	10,300.00	10,297.81	44.14	226.12	-64.03	2,600.02	-3,480.78	5,154.56	4,906.82	247.74	20.806		
13,100.00	12,427.39	10,300.00	10,297.81	44.14	226.12	-64.03	2,600.02	-3,480.78	5,117.85	4,870.38	247.48	20.680		
13,200.00	12,426.94	10,300.00	10,297.81	44.18	226.12	-64.03	2,600.02	-3,480.78	5,082.85	4,835.62	247.23	20.559		
13,300.00	12,426.50	10,300.00	10,297.81	44.29	226.12	-64.03	2,600.02	-3,480.78	5,049.59	4,802.57	247.01	20.443		
13,400.00	12,426.05	10,300.00	10,297.81	44.42	226.12	-64.03	2,600.02	-3,480.78	5,018.09	4,771.28	246.82	20.331		
13,500.00	12,425.60	10,300.00	10,297.81	44.57	226.12	-64.03	2,600.02	-3,480.78	4,988.41	4,741.76	246.65	20.225		
13,600.00	12,425.15	10,300.00	10,297.81	44.73	226.12	-64.03	2,600.02	-3,480.78	4,960.56	4,714.06	246.50	20.124		
13,700.00	12,424.70	10,300.00	10,297.81	44.90	226.12	-64.03	2,600.02	-3,480.78	4,934.58	4,688.20	246.39	20.028		
13,800.00	12,424.25	10,300.00	10,297.81	45.08	226.12	-64.03	2,600.02	-3,480.78	4,910.51	4,664.20	246.30	19.937		
13,900.00	12,423.80	10,300.00	10,297.81	45.28	226.12	-64.03	2,600.02	-3,480.78	4,888.36	4,642.11	246.25	19.851		
14,000.00	12,423.35	10,300.00	10,297.81	45.48	226.12	-64.03	2,600.02	-3,480.78	4,868.16	4,621.93	246.23	19.771		
14,100.00	12,422.90	10,300.00	10,297.81	45.70	226.12	-64.03	2,600.02	-3,480.78	4,849.94	4,603.71	246.23	19.696		
14,200.00	12,422.45	10,300.00	10,297.81	45.93	226.12	-64.03	2,600.02	-3,480.78	4,833.72	4,587.45	246.28	19.627		
14,300.00	12,422.00	10,300.00	10,297.81	46.17	226.12	-64.03	2,600.02	-3,480.78	4,819.53	4,573.17	246.35	19.564		
14,400.00	12,421.55	10,300.00	10,297.81	46.43	226.12	-64.03	2,600.02	-3,480.78	4,807.37	4,560.91	246.46	19.506		
14,500.00	12,421.10	10,300.00	10,297.81	46.69	226.12	-64.03	2,600.02	-3,480.78	4,797.26	4,550.66	246.60	19.453		
14,600.00	12,420.65	10,300.00	10,297.81	46.96	226.12	-64.03	2,600.02	-3,480.78	4,789.22	4,542.45	246.78	19.407		
14,700.00	12,420.20	10,300.00	10,297.81	47.25	226.12	-64.03	2,600.02	-3,480.78	4,783.26	4,536.28	246.99	19.367		
14,800.00	12,419.75	10,300.00	10,297.81	47.54	226.12	-64.03	2,600.02	-3,480.78	4,779.39	4,532.16	247.23	19.332		
14,900.00	12,419.30	10,300.00	10,297.81	47.85	226.12	-64.03	2,600.02	-3,480.78	4,777.61	4,530.10	247.50	19.303		
14,935.25	12,419.14	10,300.00	10,297.81	47.96	226.12	-64.03	2,600.02	-3,480.78	4,777.48	4,529.87	247.61	19.295 CC, ES		
15,000.00	12,418.85	10,300.00	10,297.81	48.17	226.12	-64.03	2,600.02	-3,480.78	4,777.91	4,530.11	247.81	19.281		
15,100.00	12,418.40	10,300.00	10,297.81	48.49	226.12	-64.03	2,600.02	-3,480.78	4,780.32	4,532.17	248.14	19.264		
15,200.00	12,417.95	10,300.00	10,297.81	48.83	226.12	-64.03	2,600.02	-3,480.78	4,784.81	4,536.30	248.51	19.254		
15,300.00	12,417.50	10,300.00	10,297.81	49.17	226.12	-64.03	2,600.02	-3,480.78	4,791.38	4,542.48	248.90	19.250 SF		
15,400.00	12,417.05	10,300.00	10,297.81	49.53	226.12	-64.03	2,600.02	-3,480.78	4,800.03	4,550.71	249.32	19.252		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A06_Offset Wild Salsa - W01 DIAMONDTAIL 24 FEDERAL #1 33344 - D #1 - Inc Only													Offset Site Error:	0.00 usft
Survey Program: 499-INC-ONLY													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		
15,500.00	12,416.61	10,300.00	10,297.81	49.89	226.12	-64.03	2,600.02	-3,480.78	4,810.74	4,560.97	249.77	19.261		
15,600.00	12,416.16	10,300.00	10,297.81	50.26	226.12	-64.03	2,600.02	-3,480.78	4,823.50	4,573.26	250.24	19.276		
15,700.00	12,415.71	10,300.00	10,297.81	50.65	226.12	-64.03	2,600.02	-3,480.78	4,838.30	4,587.57	250.73	19.297		
15,800.00	12,415.26	10,300.00	10,297.81	51.04	226.12	-64.03	2,600.02	-3,480.78	4,855.11	4,603.87	251.24	19.325		
15,900.00	12,414.81	10,300.00	10,297.81	51.44	226.12	-64.03	2,600.02	-3,480.78	4,873.91	4,622.14	251.77	19.359		
16,000.00	12,414.36	10,300.00	10,297.81	51.84	226.12	-64.03	2,600.02	-3,480.78	4,894.69	4,642.37	252.32	19.399		
16,100.00	12,413.91	10,300.00	10,297.81	52.26	226.12	-64.03	2,600.02	-3,480.78	4,917.41	4,664.53	252.88	19.446		
16,200.00	12,413.46	10,300.00	10,297.81	52.68	226.12	-64.03	2,600.02	-3,480.78	4,942.05	4,688.59	253.46	19.499		
16,300.00	12,413.01	10,300.00	10,297.81	53.11	226.12	-64.03	2,600.02	-3,480.78	4,968.58	4,714.54	254.04	19.558		
16,400.00	12,412.56	10,300.00	10,297.81	53.55	226.12	-64.03	2,600.02	-3,480.78	4,996.98	4,742.34	254.64	19.624		
16,500.00	12,412.11	10,300.00	10,297.81	53.99	226.12	-64.03	2,600.02	-3,480.78	5,027.20	4,771.95	255.24	19.696		
16,600.00	12,411.66	10,300.00	10,297.81	54.45	226.12	-64.03	2,600.02	-3,480.78	5,059.22	4,803.36	255.86	19.774		
16,700.00	12,411.21	10,300.00	10,297.81	54.91	226.12	-64.03	2,600.02	-3,480.78	5,093.00	4,836.52	256.47	19.858		
16,800.00	12,410.76	10,300.00	10,297.81	55.37	226.12	-64.03	2,600.02	-3,480.78	5,128.51	4,871.41	257.09	19.948		
16,900.00	12,410.31	10,300.00	10,297.81	55.84	226.12	-64.03	2,600.02	-3,480.78	5,165.71	4,907.99	257.71	20.044		
17,000.00	12,409.86	10,300.00	10,297.81	56.32	226.12	-64.03	2,600.02	-3,480.78	5,204.56	4,946.23	258.33	20.147		
17,100.00	12,409.41	10,300.00	10,297.81	56.81	226.12	-64.03	2,600.02	-3,480.78	5,245.04	4,986.08	258.96	20.255		
17,200.00	12,408.96	10,300.00	10,297.81	57.30	226.12	-64.03	2,600.02	-3,480.78	5,287.09	5,027.52	259.57	20.368		
17,300.00	12,408.51	10,300.00	10,297.81	57.80	226.12	-64.03	2,600.02	-3,480.78	5,330.70	5,070.50	260.19	20.488		
17,400.00	12,408.06	10,300.00	10,297.81	58.30	226.12	-64.03	2,600.02	-3,480.78	5,375.80	5,115.00	260.80	20.613		
17,500.00	12,407.61	10,300.00	10,297.81	58.81	226.12	-64.03	2,600.02	-3,480.78	5,422.38	5,160.97	261.41	20.743		
17,600.00	12,407.17	10,300.00	10,297.81	59.32	226.12	-64.03	2,600.02	-3,480.78	5,470.39	5,208.38	262.01	20.878		
17,700.00	12,406.72	10,300.00	10,297.81	59.84	226.12	-64.03	2,600.02	-3,480.78	5,519.79	5,257.19	262.61	21.019		
17,800.00	12,406.27	10,300.00	10,297.81	60.37	226.12	-64.03	2,600.02	-3,480.78	5,570.55	5,307.36	263.19	21.165		
17,900.00	12,405.82	10,300.00	10,297.81	60.90	226.12	-64.03	2,600.02	-3,480.78	5,622.63	5,358.86	263.77	21.316		
18,000.00	12,405.37	10,300.00	10,297.81	61.43	226.12	-64.03	2,600.02	-3,480.78	5,676.00	5,411.65	264.34	21.472		
18,100.00	12,404.92	10,300.00	10,297.81	61.97	226.12	-64.03	2,600.02	-3,480.78	5,730.61	5,465.71	264.91	21.633		
18,200.00	12,404.47	10,300.00	10,297.81	62.52	226.12	-64.03	2,600.02	-3,480.78	5,786.44	5,520.98	265.46	21.798		
18,300.00	12,404.02	10,300.00	10,297.81	63.07	226.12	-64.03	2,600.02	-3,480.78	5,843.44	5,577.44	266.00	21.968		
18,400.00	12,403.57	10,300.00	10,297.81	63.62	226.12	-64.03	2,600.02	-3,480.78	5,901.59	5,635.05	266.54	22.142		
18,500.00	12,403.12	10,300.00	10,297.81	64.18	226.12	-64.03	2,600.02	-3,480.78	5,960.85	5,693.79	267.06	22.320		
18,600.00	12,402.67	10,300.00	10,297.81	64.74	226.12	-64.03	2,600.02	-3,480.78	6,021.18	5,753.61	267.58	22.503		
18,700.00	12,402.22	10,300.00	10,297.81	65.31	226.12	-64.03	2,600.02	-3,480.78	6,082.57	5,814.48	268.08	22.689		
18,800.00	12,401.77	10,300.00	10,297.81	65.88	226.12	-64.03	2,600.02	-3,480.78	6,144.96	5,876.39	268.58	22.880		
18,900.00	12,401.32	10,300.00	10,297.81	66.45	226.12	-64.03	2,600.02	-3,480.78	6,208.34	5,939.28	269.06	23.074		
19,000.00	12,400.87	10,300.00	10,297.81	67.03	226.12	-64.03	2,600.02	-3,480.78	6,272.68	6,003.14	269.53	23.272		
19,100.00	12,400.42	10,300.00	10,297.81	67.61	226.12	-64.03	2,600.02	-3,480.78	6,337.93	6,067.94	270.00	23.474		
19,200.00	12,399.97	10,300.00	10,297.81	68.20	226.12	-64.03	2,600.02	-3,480.78	6,404.09	6,133.64	270.45	23.679		
19,300.00	12,399.52	10,300.00	10,297.81	68.79	226.12	-64.03	2,600.02	-3,480.78	6,471.11	6,200.22	270.89	23.888		
19,400.00	12,399.07	10,300.00	10,297.81	69.38	226.12	-64.03	2,600.02	-3,480.78	6,538.98	6,267.65	271.33	24.100		
19,500.00	12,398.62	10,300.00	10,297.81	69.98	226.12	-64.03	2,600.02	-3,480.78	6,607.66	6,335.91	271.75	24.315		
19,600.00	12,398.17	10,300.00	10,297.81	70.58	226.12	-64.03	2,600.02	-3,480.78	6,677.14	6,404.97	272.17	24.533		
19,700.00	12,397.73	10,300.00	10,297.81	71.18	226.12	-64.03	2,600.02	-3,480.78	6,747.38	6,474.80	272.57	24.754		
19,800.00	12,397.28	10,300.00	10,297.81	71.78	226.12	-64.03	2,600.02	-3,480.78	6,818.36	6,545.39	272.97	24.979		

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A06_Offset Wild Salsa - W02 DIAMONDTAIL 24 FEDERAL A #001 3351 - D A #001 - DepthOnly													Offset Site Error:	0.00 usft
Survey Program: 10300-INC-ONLY													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		
6,900.00	6,847.71	6,825.71	6,825.71	24.71	215.58	-138.81	3,910.69	-3,821.76	5,978.08	5,738.22	239.87	24.923		
7,000.00	6,946.55	6,924.55	6,924.55	25.08	218.70	-138.91	3,910.69	-3,821.76	5,989.57	5,746.23	243.35	24.613		
7,100.00	7,045.39	7,023.39	7,023.39	25.45	221.82	-139.00	3,910.69	-3,821.76	6,001.08	5,754.25	246.83	24.313		
7,200.00	7,144.23	7,122.23	7,122.23	25.82	224.94	-139.10	3,910.69	-3,821.76	6,012.60	5,762.29	250.31	24.021		
7,300.00	7,243.07	7,221.07	7,221.07	26.19	228.06	-139.19	3,910.69	-3,821.76	6,024.14	5,770.35	253.79	23.737		
7,400.00	7,341.91	7,319.91	7,319.91	26.56	231.18	-139.28	3,910.69	-3,821.76	6,035.70	5,778.43	257.27	23.461		
7,500.00	7,440.75	7,418.75	7,418.75	26.93	234.31	-139.38	3,910.69	-3,821.76	6,047.27	5,786.52	260.75	23.192		
7,600.00	7,539.59	7,517.59	7,517.59	27.30	237.43	-139.47	3,910.69	-3,821.76	6,058.85	5,794.62	264.23	22.930		
7,700.00	7,638.43	7,616.43	7,616.43	27.67	240.55	-139.56	3,910.69	-3,821.76	6,070.46	5,802.75	267.71	22.675		
7,800.00	7,737.27	7,715.27	7,715.27	28.04	243.67	-139.65	3,910.69	-3,821.76	6,082.07	5,810.88	271.19	22.427		
7,900.00	7,836.12	7,814.12	7,814.12	28.41	246.79	-139.75	3,910.69	-3,821.76	6,093.71	5,819.04	274.67	22.185		
8,000.00	7,934.96	7,912.96	7,912.96	28.78	249.91	-139.84	3,910.69	-3,821.76	6,105.36	5,827.21	278.15	21.950		
8,086.18	8,020.14	7,998.14	7,998.14	29.10	252.60	-139.92	3,910.69	-3,821.76	6,115.41	5,834.26	281.15	21.751		
8,100.00	8,033.80	8,011.80	8,011.80	29.15	253.04	-139.94	3,910.69	-3,821.76	6,117.00	5,835.37	281.63	21.720		
8,200.00	8,132.88	8,110.88	8,110.88	29.52	256.16	-140.13	3,910.69	-3,821.76	6,127.41	5,842.29	285.12	21.491		
8,300.00	8,232.28	8,210.28	8,210.28	29.88	259.30	-140.27	3,910.69	-3,821.76	6,135.83	5,847.21	288.62	21.259		
8,400.00	8,331.93	8,309.93	8,309.93	30.24	262.45	-140.38	3,910.69	-3,821.76	6,142.24	5,850.12	292.12	21.026		
8,500.00	8,431.76	8,409.76	8,409.76	30.60	265.60	-140.46	3,910.69	-3,821.76	6,146.65	5,851.02	295.63	20.792		
8,600.00	8,531.71	8,509.71	8,509.71	30.95	268.76	-140.50	3,910.69	-3,821.76	6,149.04	5,849.90	299.14	20.556		
8,668.29	8,600.00	8,578.00	8,578.00	31.19	270.92	-50.51	3,910.69	-3,821.76	6,149.51	5,847.98	301.53	20.394		
8,700.00	8,631.71	8,609.71	8,609.71	31.30	271.92	-50.51	3,910.69	-3,821.76	6,149.51	5,846.87	302.64	20.319		
8,800.00	8,731.71	8,709.71	8,709.71	31.64	275.08	-50.51	3,910.69	-3,821.76	6,149.51	5,843.36	306.15	20.087		
8,900.00	8,831.71	8,809.71	8,809.71	31.98	278.24	-50.51	3,910.69	-3,821.76	6,149.51	5,839.86	309.65	19.860		
9,000.00	8,931.71	8,909.71	8,909.71	32.32	281.39	-50.51	3,910.69	-3,821.76	6,149.51	5,836.36	313.15	19.637		
9,100.00	9,031.71	9,009.71	9,009.71	32.66	284.55	-50.51	3,910.69	-3,821.76	6,149.51	5,832.85	316.66	19.420		
9,200.00	9,131.71	9,109.71	9,109.71	33.01	287.71	-50.51	3,910.69	-3,821.76	6,149.51	5,829.35	320.16	19.208		
9,300.00	9,231.71	9,209.71	9,209.71	33.35	290.87	-50.51	3,910.69	-3,821.76	6,149.51	5,825.85	323.66	19.000		
9,400.00	9,331.71	9,309.71	9,309.71	33.69	294.03	-50.51	3,910.69	-3,821.76	6,149.51	5,822.34	327.17	18.796		
9,500.00	9,431.71	9,409.71	9,409.71	34.04	297.19	-50.51	3,910.69	-3,821.76	6,149.51	5,818.84	330.67	18.597		
9,600.00	9,531.71	9,509.71	9,509.71	34.38	300.34	-50.51	3,910.69	-3,821.76	6,149.51	5,815.33	334.18	18.402		
9,700.00	9,631.71	9,609.71	9,609.71	34.73	303.50	-50.51	3,910.69	-3,821.76	6,149.51	5,811.83	337.68	18.211		
9,800.00	9,731.71	9,709.71	9,709.71	35.07	306.66	-50.51	3,910.69	-3,821.76	6,149.51	5,808.32	341.19	18.024		
9,900.00	9,831.71	9,809.71	9,809.71	35.42	309.82	-50.51	3,910.69	-3,821.76	6,149.51	5,804.82	344.69	17.841		
10,000.00	9,931.71	9,909.71	9,909.71	35.76	312.98	-50.51	3,910.69	-3,821.76	6,149.51	5,801.31	348.20	17.661		
10,100.00	10,031.71	10,009.71	10,009.71	36.11	316.13	-50.51	3,910.69	-3,821.76	6,149.51	5,797.81	351.70	17.485		
10,200.00	10,131.71	10,109.71	10,109.71	36.45	319.29	-50.51	3,910.69	-3,821.76	6,149.51	5,794.30	355.21	17.312		
10,300.00	10,231.71	10,209.71	10,209.71	36.80	322.45	-50.51	3,910.69	-3,821.76	6,149.51	5,790.79	358.72	17.143		
10,306.87	10,238.57	10,216.57	10,216.57	36.82	322.67	-50.51	3,910.69	-3,821.76	6,149.51	5,790.55	358.96	17.132		
10,400.00	10,331.71	10,309.71	10,309.71	37.14	325.30	-50.51	3,910.69	-3,821.76	6,149.55	5,787.65	361.91	16.992		
10,500.00	10,431.71	10,409.71	10,409.71	37.49	328.30	-50.51	3,910.69	-3,821.76	6,150.73	5,788.58	362.16	16.984		
10,600.00	10,531.71	10,509.71	10,509.71	37.84	331.30	-50.51	3,910.69	-3,821.76	6,153.54	5,791.22	362.32	16.984		
10,700.00	10,631.71	10,609.71	10,609.71	38.18	334.30	-50.51	3,910.69	-3,821.76	6,157.97	5,795.58	362.39	16.993		
10,800.00	10,731.71	10,709.71	10,709.71	38.53	337.30	-50.51	3,910.69	-3,821.76	6,164.02	5,801.65	362.37	17.010		
10,900.00	10,831.71	10,809.71	10,809.71	38.88	340.30	-50.51	3,910.69	-3,821.76	6,171.69	5,809.43	362.26	17.037		
11,000.00	10,931.71	10,909.71	10,909.71	39.23	343.30	-50.51	3,910.69	-3,821.76	6,180.96	5,818.90	362.06	17.072		
11,100.00	11,031.71	11,009.71	11,009.71	39.57	346.30	-50.51	3,910.69	-3,821.76	6,191.83	5,830.06	361.78	17.115		
11,200.00	11,131.71	11,109.71	11,109.71	39.92	349.30	-50.51	3,910.69	-3,821.76	6,204.30	5,842.90	361.40	17.167		
11,300.00	11,231.71	11,209.71	11,209.71	40.27	352.30	-50.51	3,910.69	-3,821.76	6,218.35	5,857.40	360.95	17.228		
11,400.00	11,331.71	11,309.71	11,309.71	40.62	355.30	-50.51	3,910.69	-3,821.76	6,233.97	5,873.56	360.41	17.297		
11,500.00	11,431.71	11,409.71	11,409.71	40.97	358.30	-50.51	3,910.69	-3,821.76	6,251.16	5,891.37	359.79	17.374		
11,600.00	11,531.71	11,509.71	11,509.71	41.32	361.30	-50.51	3,910.69	-3,821.76	6,269.89	5,910.80	359.09	17.460		
11,700.00	11,631.71	11,609.71	11,609.71	41.66	364.30	-50.51	3,910.69	-3,821.76	6,290.16	5,931.84	358.32	17.555		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A06_Offset Wild Salsa - W02 DIAMONDTAIL 24 FEDERAL A #001 3351 - D A #001 - DepthOnly													Offset Site Error: 0.00 usft
Survey Program: 10300-INC-ONLY													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	
11,800.00	11,731.71	10,300.00	10,286.98	42.01	325.30	-50.51	3,910.69	-3,821.76	6,311.94	5,954.47	357.47	17.657	
11,900.00	11,831.71	10,300.00	10,286.98	42.36	325.30	-50.51	3,910.69	-3,821.76	6,335.23	5,978.68	356.55	17.768	
12,000.00	11,931.71	10,300.00	10,286.98	42.71	325.30	-50.51	3,910.69	-3,821.76	6,360.01	6,004.44	355.56	17.887	
12,012.62	11,944.33	10,300.00	10,286.98	42.76	325.30	-50.51	3,910.69	-3,821.76	6,363.24	6,007.81	355.43	17.903	
12,025.00	11,956.71	10,300.00	10,286.98	42.80	325.30	-35.09	3,910.69	-3,821.76	6,366.31	6,011.00	355.31	17.918	
12,050.00	11,981.67	10,300.00	10,286.98	42.89	325.30	-34.71	3,910.69	-3,821.76	6,371.79	6,016.75	355.04	17.947	
12,075.00	12,006.53	10,300.00	10,286.98	42.97	325.30	-34.39	3,910.69	-3,821.76	6,376.31	6,021.54	354.76	17.973	
12,100.00	12,031.22	10,300.00	10,286.98	43.06	325.30	-34.15	3,910.69	-3,821.76	6,379.86	6,025.38	354.48	17.998	
12,125.00	12,055.67	10,300.00	10,286.98	43.14	325.30	-33.98	3,910.69	-3,821.76	6,382.43	6,028.24	354.20	18.020	
12,150.00	12,079.82	10,300.00	10,286.98	43.22	325.30	-33.87	3,910.69	-3,821.76	6,384.02	6,030.12	353.90	18.039	
12,175.00	12,103.60	10,300.00	10,286.98	43.30	325.30	-33.83	3,910.69	-3,821.76	6,384.62	6,031.02	353.60	18.056	
12,200.00	12,126.93	10,300.00	10,286.98	43.38	325.30	-33.86	3,910.69	-3,821.76	6,384.23	6,030.94	353.30	18.070	
12,225.00	12,149.77	10,300.00	10,286.98	43.45	325.30	-33.95	3,910.69	-3,821.76	6,382.86	6,029.87	352.99	18.082	
12,250.00	12,172.05	10,300.00	10,286.98	43.52	325.30	-34.11	3,910.69	-3,821.76	6,380.49	6,027.82	352.68	18.092	
12,275.00	12,193.70	10,300.00	10,286.98	43.59	325.30	-34.34	3,910.69	-3,821.76	6,377.15	6,024.79	352.36	18.098	
12,300.00	12,214.67	10,300.00	10,286.98	43.65	325.30	-34.63	3,910.69	-3,821.76	6,372.84	6,020.79	352.04	18.102	
12,325.00	12,234.89	10,300.00	10,286.98	43.71	325.30	-35.00	3,910.69	-3,821.76	6,367.56	6,015.83	351.73	18.104	
12,350.00	12,254.33	10,300.00	10,286.98	43.77	325.30	-35.45	3,910.69	-3,821.76	6,361.33	6,009.92	351.41	18.102	
12,375.00	12,272.91	10,300.00	10,286.98	43.82	325.30	-35.97	3,910.69	-3,821.76	6,354.17	6,003.08	351.09	18.098	
12,400.00	12,290.59	10,300.00	10,286.98	43.87	325.30	-36.58	3,910.69	-3,821.76	6,346.09	5,995.31	350.78	18.091	
12,425.00	12,307.32	10,300.00	10,286.98	43.91	325.30	-37.27	3,910.69	-3,821.76	6,337.10	5,986.64	350.47	18.082	
12,450.00	12,323.05	10,300.00	10,286.98	43.95	325.30	-38.06	3,910.69	-3,821.76	6,327.24	5,977.08	350.16	18.070	
12,475.00	12,337.75	10,300.00	10,286.98	43.98	325.30	-38.95	3,910.69	-3,821.76	6,316.52	5,966.66	349.86	18.054	
12,500.00	12,351.37	10,300.00	10,286.98	44.01	325.30	-39.94	3,910.69	-3,821.76	6,304.97	5,955.40	349.57	18.037	
12,512.62	12,357.83	10,300.00	10,286.98	44.03	325.30	-40.48	3,910.69	-3,821.76	6,298.83	5,949.41	349.42	18.026	
12,525.00	12,363.89	10,300.00	10,286.98	44.04	325.30	-41.66	3,910.69	-3,821.76	6,292.67	5,943.39	349.28	18.016	
12,550.00	12,375.38	10,300.00	10,286.98	44.06	325.30	-44.03	3,910.69	-3,821.76	6,279.97	5,930.97	349.00	17.994	
12,575.00	12,385.81	10,300.00	10,286.98	44.08	325.30	-46.37	3,910.69	-3,821.76	6,266.98	5,918.24	348.74	17.970	
12,600.00	12,395.16	10,300.00	10,286.98	44.10	325.30	-48.69	3,910.69	-3,821.76	6,253.73	5,905.24	348.49	17.945	
12,625.00	12,403.40	10,300.00	10,286.98	44.11	325.30	-50.99	3,910.69	-3,821.76	6,240.24	5,891.99	348.26	17.919	
12,650.00	12,410.52	10,300.00	10,286.98	44.12	325.30	-53.28	3,910.69	-3,821.76	6,226.56	5,878.53	348.04	17.891	
12,675.00	12,416.49	10,300.00	10,286.98	44.13	325.30	-55.54	3,910.69	-3,821.76	6,212.73	5,864.89	347.84	17.861	
12,700.00	12,421.30	10,300.00	10,286.98	44.14	325.30	-57.78	3,910.69	-3,821.76	6,198.77	5,851.11	347.65	17.830	
12,725.00	12,424.93	10,300.00	10,286.98	44.14	325.30	-59.98	3,910.69	-3,821.76	6,184.72	5,837.23	347.49	17.798	
12,750.00	12,427.37	10,300.00	10,286.98	44.14	325.30	-62.14	3,910.69	-3,821.76	6,170.63	5,823.29	347.35	17.765	
12,775.00	12,428.61	10,300.00	10,286.98	44.14	325.30	-64.24	3,910.69	-3,821.76	6,156.54	5,809.31	347.23	17.731	
12,790.87	12,428.78	10,300.00	10,286.98	44.14	325.30	-65.55	3,910.69	-3,821.76	6,147.60	5,800.44	347.16	17.708	
12,800.00	12,428.74	10,300.00	10,286.98	44.14	325.30	-65.55	3,910.69	-3,821.76	6,142.47	5,795.35	347.13	17.695	
12,900.00	12,428.29	10,300.00	10,286.98	44.14	325.30	-65.55	3,910.69	-3,821.76	6,086.90	5,740.15	346.75	17.554	
13,000.00	12,427.84	10,300.00	10,286.98	44.14	325.30	-65.55	3,910.69	-3,821.76	6,032.47	5,686.09	346.38	17.416	
13,100.00	12,427.39	10,300.00	10,286.98	44.14	325.30	-65.55	3,910.69	-3,821.76	5,979.22	5,633.20	346.02	17.280	
13,200.00	12,426.94	10,300.00	10,286.98	44.18	325.30	-65.55	3,910.69	-3,821.76	5,927.18	5,581.51	345.67	17.147	
13,300.00	12,426.50	10,300.00	10,286.98	44.29	325.30	-65.55	3,910.69	-3,821.76	5,876.37	5,531.04	345.33	17.017	
13,400.00	12,426.05	10,300.00	10,286.98	44.42	325.30	-65.55	3,910.69	-3,821.76	5,826.85	5,481.84	345.00	16.889	
13,500.00	12,425.60	10,300.00	10,286.98	44.57	325.30	-65.55	3,910.69	-3,821.76	5,778.62	5,433.94	344.69	16.765	
13,600.00	12,425.15	10,300.00	10,286.98	44.73	325.30	-65.55	3,910.69	-3,821.76	5,731.74	5,387.36	344.39	16.643	
13,700.00	12,424.70	10,300.00	10,286.98	44.90	325.30	-65.55	3,910.69	-3,821.76	5,686.23	5,342.13	344.10	16.525	
13,800.00	12,424.25	10,300.00	10,286.98	45.08	325.30	-65.55	3,910.69	-3,821.76	5,642.12	5,298.30	343.83	16.410	
13,900.00	12,423.80	10,300.00	10,286.98	45.28	325.30	-65.55	3,910.69	-3,821.76	5,599.46	5,255.88	343.58	16.298	
14,000.00	12,423.35	10,300.00	10,286.98	45.48	325.30	-65.55	3,910.69	-3,821.76	5,558.26	5,214.92	343.34	16.189	
14,100.00	12,422.90	10,300.00	10,286.98	45.70	325.30	-65.55	3,910.69	-3,821.76	5,518.57	5,175.44	343.13	16.083	
14,200.00	12,422.45	10,300.00	10,286.98	45.93	325.30	-65.55	3,910.69	-3,821.76	5,480.42	5,137.48	342.94	15.981	

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A06_Offset Wild Salsa - W02 DIAMONDTAIL 24 FEDERAL A #001 3351 - D A #001 - DepthOnly													Offset Site Error:	0.00 usft
Survey Program: 10300-INC-ONLY													Offset Well Error:	0.00 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	
14,300.00	12,422.00	10,300.00	10,286.98	46.17	325.30	-65.55	3,910.69	-3,821.76	5,443.84	5,101.07	342.77	15.882		
14,400.00	12,421.55	10,300.00	10,286.98	46.43	325.30	-65.55	3,910.69	-3,821.76	5,408.86	5,066.23	342.63	15.786		
14,500.00	12,421.10	10,300.00	10,286.98	46.69	325.30	-65.55	3,910.69	-3,821.76	5,375.51	5,033.00	342.51	15.695		
14,600.00	12,420.65	10,300.00	10,286.98	46.96	325.30	-65.55	3,910.69	-3,821.76	5,343.82	5,001.41	342.41	15.606		
14,700.00	12,420.20	10,300.00	10,286.98	47.25	325.30	-65.55	3,910.69	-3,821.76	5,313.83	4,971.49	342.34	15.522		
14,800.00	12,419.75	10,300.00	10,286.98	47.54	325.30	-65.55	3,910.69	-3,821.76	5,285.56	4,943.26	342.31	15.441		
14,900.00	12,419.30	10,300.00	10,286.98	47.85	325.30	-65.55	3,910.69	-3,821.76	5,259.04	4,916.75	342.29	15.364		
15,000.00	12,418.85	10,300.00	10,286.98	48.17	325.30	-65.55	3,910.69	-3,821.76	5,234.30	4,891.99	342.31	15.291		
15,100.00	12,418.40	10,300.00	10,286.98	48.49	325.30	-65.55	3,910.69	-3,821.76	5,211.36	4,869.00	342.36	15.222		
15,200.00	12,417.95	10,300.00	10,286.98	48.83	325.30	-65.55	3,910.69	-3,821.76	5,190.24	4,847.80	342.44	15.157		
15,300.00	12,417.50	10,300.00	10,286.98	49.17	325.30	-65.55	3,910.69	-3,821.76	5,170.98	4,828.42	342.55	15.095		
15,400.00	12,417.05	10,300.00	10,286.98	49.53	325.30	-65.55	3,910.69	-3,821.76	5,153.58	4,810.88	342.69	15.038		
15,500.00	12,416.61	10,300.00	10,286.98	49.89	325.30	-65.55	3,910.69	-3,821.76	5,138.06	4,795.20	342.87	14.986		
15,600.00	12,416.16	10,300.00	10,286.98	50.26	325.30	-65.55	3,910.69	-3,821.76	5,124.46	4,781.38	343.07	14.937		
15,700.00	12,415.71	10,300.00	10,286.98	50.65	325.30	-65.55	3,910.69	-3,821.76	5,112.77	4,769.46	343.31	14.893		
15,800.00	12,415.26	10,300.00	10,286.98	51.04	325.30	-65.55	3,910.69	-3,821.76	5,103.02	4,759.44	343.58	14.852		
15,900.00	12,414.81	10,300.00	10,286.98	51.44	325.30	-65.55	3,910.69	-3,821.76	5,095.21	4,751.33	343.88	14.817		
16,000.00	12,414.36	10,300.00	10,286.98	51.84	325.30	-65.55	3,910.69	-3,821.76	5,089.35	4,745.14	344.21	14.786		
16,100.00	12,413.91	10,300.00	10,286.98	52.26	325.30	-65.55	3,910.69	-3,821.76	5,085.46	4,740.89	344.57	14.759		
16,200.00	12,413.46	10,300.00	10,286.98	52.68	325.30	-65.55	3,910.69	-3,821.76	5,083.53	4,738.56	344.96	14.736		
16,248.20	12,413.24	10,300.00	10,286.98	52.89	325.30	-65.55	3,910.69	-3,821.76	5,083.30	4,738.14	345.16	14.727 CC, ES		
16,300.00	12,413.01	10,300.00	10,286.98	53.11	325.30	-65.55	3,910.69	-3,821.76	5,083.56	4,738.18	345.38	14.719		
16,400.00	12,412.56	10,300.00	10,286.98	53.55	325.30	-65.55	3,910.69	-3,821.76	5,085.56	4,739.74	345.83	14.706		
16,500.00	12,412.11	10,300.00	10,286.98	53.99	325.30	-65.55	3,910.69	-3,821.76	5,089.53	4,743.23	346.30	14.697		
16,600.00	12,411.66	10,300.00	10,286.98	54.45	325.30	-65.55	3,910.69	-3,821.76	5,095.46	4,748.66	346.79	14.693 SF		
16,700.00	12,411.21	10,300.00	10,286.98	54.91	325.30	-65.55	3,910.69	-3,821.76	5,103.34	4,756.02	347.32	14.694		
16,800.00	12,410.76	10,300.00	10,286.98	55.37	325.30	-65.55	3,910.69	-3,821.76	5,113.16	4,765.30	347.86	14.699		
16,900.00	12,410.31	10,300.00	10,286.98	55.84	325.30	-65.55	3,910.69	-3,821.76	5,124.92	4,776.49	348.42	14.709		
17,000.00	12,409.86	10,300.00	10,286.98	56.32	325.30	-65.55	3,910.69	-3,821.76	5,138.59	4,789.58	349.01	14.723		
17,100.00	12,409.41	10,300.00	10,286.98	56.81	325.30	-65.55	3,910.69	-3,821.76	5,154.17	4,804.56	349.61	14.743		
17,200.00	12,408.96	10,300.00	10,286.98	57.30	325.30	-65.55	3,910.69	-3,821.76	5,171.64	4,821.41	350.23	14.767		
17,300.00	12,408.51	10,300.00	10,286.98	57.80	325.30	-65.55	3,910.69	-3,821.76	5,190.97	4,840.12	350.86	14.795		
17,400.00	12,408.06	10,300.00	10,286.98	58.30	325.30	-65.55	3,910.69	-3,821.76	5,212.16	4,860.65	351.50	14.828		
17,500.00	12,407.61	10,300.00	10,286.98	58.81	325.30	-65.55	3,910.69	-3,821.76	5,235.16	4,883.00	352.16	14.866		
17,600.00	12,407.17	10,300.00	10,286.98	59.32	325.30	-65.55	3,910.69	-3,821.76	5,259.97	4,907.14	352.83	14.908		
17,700.00	12,406.72	10,300.00	10,286.98	59.84	325.30	-65.55	3,910.69	-3,821.76	5,286.55	4,933.05	353.50	14.955		
17,800.00	12,406.27	10,300.00	10,286.98	60.37	325.30	-65.55	3,910.69	-3,821.76	5,314.89	4,960.70	354.18	15.006		
17,900.00	12,405.82	10,300.00	10,286.98	60.90	325.30	-65.55	3,910.69	-3,821.76	5,344.94	4,990.07	354.87	15.062		
18,000.00	12,405.37	10,300.00	10,286.98	61.43	325.30	-65.55	3,910.69	-3,821.76	5,376.68	5,021.12	355.56	15.122		
18,100.00	12,404.92	10,300.00	10,286.98	61.97	325.30	-65.55	3,910.69	-3,821.76	5,410.09	5,053.84	356.25	15.186		
18,200.00	12,404.47	10,300.00	10,286.98	62.52	325.30	-65.55	3,910.69	-3,821.76	5,445.13	5,088.18	356.95	15.255		
18,300.00	12,404.02	10,300.00	10,286.98	63.07	325.30	-65.55	3,910.69	-3,821.76	5,481.77	5,124.13	357.64	15.328		
18,400.00	12,403.57	10,300.00	10,286.98	63.62	325.30	-65.55	3,910.69	-3,821.76	5,519.98	5,161.65	358.33	15.405		
18,500.00	12,403.12	10,300.00	10,286.98	64.18	325.30	-65.55	3,910.69	-3,821.76	5,559.72	5,200.70	359.02	15.486		
18,600.00	12,402.67	10,300.00	10,286.98	64.74	325.30	-65.55	3,910.69	-3,821.76	5,600.97	5,241.26	359.71	15.571		
18,700.00	12,402.22	10,300.00	10,286.98	65.31	325.30	-65.55	3,910.69	-3,821.76	5,643.69	5,283.30	360.39	15.660		
18,800.00	12,401.77	10,300.00	10,286.98	65.88	325.30	-65.55	3,910.69	-3,821.76	5,687.85	5,326.78	361.07	15.753		
18,900.00	12,401.32	10,300.00	10,286.98	66.45	325.30	-65.55	3,910.69	-3,821.76	5,733.41	5,371.67	361.74	15.850		
19,000.00	12,400.87	10,300.00	10,286.98	67.03	325.30	-65.55	3,910.69	-3,821.76	5,780.34	5,417.94	362.40	15.950		
19,100.00	12,400.42	10,300.00	10,286.98	67.61	325.30	-65.55	3,910.69	-3,821.76	5,828.61	5,465.56	363.05	16.054		
19,200.00	12,399.97	10,300.00	10,286.98	68.20	325.30	-65.55	3,910.69	-3,821.76	5,878.19	5,514.49	363.70	16.162		
19,300.00	12,399.52	10,300.00	10,286.98	68.79	325.30	-65.55	3,910.69	-3,821.76	5,929.03	5,564.70	364.34	16.273		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 10300-INC-ONLY													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		
19,400.00	12,399.07	10,300.00	10,286.98	69.38	325.30	-65.55	3,910.69	-3,821.76	5,981.12	5,616.15	364.96	16.388		
19,500.00	12,398.62	10,300.00	10,286.98	69.98	325.30	-65.55	3,910.69	-3,821.76	6,034.41	5,668.83	365.58	16.506		
19,600.00	12,398.17	10,300.00	10,286.98	70.58	325.30	-65.55	3,910.69	-3,821.76	6,088.88	5,722.69	366.19	16.628		
19,700.00	12,397.73	10,300.00	10,286.98	71.18	325.30	-65.55	3,910.69	-3,821.76	6,144.50	5,777.71	366.79	16.752		
19,800.00	12,397.28	10,300.00	10,286.98	71.78	325.30	-65.55	3,910.69	-3,821.76	6,201.23	5,833.85	367.38	16.880		
19,900.00	12,396.83	10,300.00	10,286.98	72.39	325.30	-65.55	3,910.69	-3,821.76	6,259.04	5,891.09	367.95	17.010		
20,000.00	12,396.38	10,300.00	10,286.98	73.01	325.30	-65.55	3,910.69	-3,821.76	6,317.91	5,949.39	368.52	17.144		
20,100.00	12,395.93	10,300.00	10,286.98	73.62	325.30	-65.55	3,910.69	-3,821.76	6,377.80	6,008.73	369.07	17.281		
20,200.00	12,395.48	10,300.00	10,286.98	74.24	325.30	-65.55	3,910.69	-3,821.76	6,438.69	6,069.07	369.62	17.420		
20,300.00	12,395.03	10,300.00	10,286.98	74.86	325.30	-65.55	3,910.69	-3,821.76	6,500.54	6,130.39	370.15	17.562		
20,400.00	12,394.58	10,300.00	10,286.98	75.48	325.30	-65.55	3,910.69	-3,821.76	6,563.34	6,192.67	370.67	17.707		
20,500.00	12,394.13	10,300.00	10,286.98	76.11	325.30	-65.55	3,910.69	-3,821.76	6,627.05	6,255.87	371.18	17.854		
20,600.00	12,393.68	10,300.00	10,286.98	76.73	325.30	-65.55	3,910.69	-3,821.76	6,691.65	6,319.97	371.68	18.004		
20,700.00	12,393.23	10,300.00	10,286.98	77.36	325.30	-65.55	3,910.69	-3,821.76	6,757.11	6,384.94	372.17	18.156		
20,800.00	12,392.78	10,300.00	10,286.98	78.00	325.30	-65.55	3,910.69	-3,821.76	6,823.40	6,450.76	372.65	18.311		
20,900.00	12,392.33	10,300.00	10,286.98	78.63	325.30	-65.55	3,910.69	-3,821.76	6,890.52	6,517.40	373.11	18.468		
21,000.00	12,391.88	10,300.00	10,286.98	79.27	325.30	-65.55	3,910.69	-3,821.76	6,958.42	6,584.85	373.57	18.627		
21,100.00	12,391.43	10,300.00	10,286.98	79.91	325.30	-65.55	3,910.69	-3,821.76	7,027.08	6,653.07	374.02	18.788		
21,200.00	12,390.98	10,300.00	10,286.98	80.55	325.30	-65.55	3,910.69	-3,821.76	7,096.50	6,722.04	374.45	18.952		
21,300.00	12,390.53	10,300.00	10,286.98	81.20	325.30	-65.55	3,910.69	-3,821.76	7,166.63	6,791.75	374.88	19.117		
21,400.00	12,390.08	10,300.00	10,286.98	81.84	325.30	-65.55	3,910.69	-3,821.76	7,237.47	6,862.17	375.30	19.285		
21,500.00	12,389.63	10,300.00	10,286.98	82.49	325.30	-65.55	3,910.69	-3,821.76	7,308.99	6,933.29	375.71	19.454		
21,600.00	12,389.18	10,300.00	10,286.98	83.14	325.30	-65.55	3,910.69	-3,821.76	7,381.17	7,005.07	376.11	19.625		
21,700.00	12,388.73	10,300.00	10,286.98	83.79	325.30	-65.55	3,910.69	-3,821.76	7,454.00	7,077.50	376.50	19.798		
21,800.00	12,388.29	10,300.00	10,286.98	84.45	325.30	-65.55	3,910.69	-3,821.76	7,527.45	7,150.57	376.88	19.973		
21,900.00	12,387.84	10,300.00	10,286.98	85.10	325.30	-65.55	3,910.69	-3,821.76	7,601.50	7,224.25	377.25	20.150		
22,000.00	12,387.39	10,300.00	10,286.98	85.76	325.30	-65.55	3,910.69	-3,821.76	7,676.14	7,298.53	377.61	20.328		
22,100.00	12,386.94	10,300.00	10,286.98	86.42	325.30	-65.55	3,910.69	-3,821.76	7,751.36	7,373.39	377.97	20.508		
22,200.00	12,386.49	10,300.00	10,286.98	87.08	325.30	-65.55	3,910.69	-3,821.76	7,827.13	7,448.81	378.32	20.689		
22,300.00	12,386.04	10,300.00	10,286.98	87.74	325.30	-65.55	3,910.69	-3,821.76	7,903.43	7,524.78	378.66	20.872		
22,400.00	12,385.59	10,300.00	10,286.98	88.41	325.30	-65.55	3,910.69	-3,821.76	7,980.26	7,601.27	378.99	21.057		
22,500.00	12,385.14	10,300.00	10,286.98	89.08	325.30	-65.55	3,910.69	-3,821.76	8,057.60	7,678.29	379.32	21.242		
22,600.00	12,384.69	10,300.00	10,286.98	89.74	325.30	-65.55	3,910.69	-3,821.76	8,135.44	7,755.80	379.64	21.430		
22,700.00	12,384.24	10,300.00	10,286.98	90.41	325.30	-65.55	3,910.69	-3,821.76	8,213.75	7,833.80	379.95	21.618		
22,800.00	12,383.79	10,300.00	10,286.98	91.08	325.30	-65.55	3,910.69	-3,821.76	8,292.53	7,912.28	380.25	21.808		
22,900.00	12,383.34	10,300.00	10,286.98	91.76	325.30	-65.55	3,910.69	-3,821.76	8,371.76	7,991.21	380.55	21.999		
23,000.00	12,382.89	10,300.00	10,286.98	92.43	325.30	-65.55	3,910.69	-3,821.76	8,451.44	8,070.59	380.85	22.191		
23,100.00	12,382.44	10,300.00	10,286.98	93.11	325.30	-65.55	3,910.69	-3,821.76	8,531.54	8,150.40	381.13	22.385		
23,200.00	12,381.99	10,300.00	10,286.98	93.78	325.30	-65.55	3,910.69	-3,821.76	8,612.06	8,230.64	381.42	22.579		
23,300.00	12,381.54	10,300.00	10,286.98	94.46	325.30	-65.55	3,910.69	-3,821.76	8,692.98	8,311.29	381.69	22.775		
23,400.00	12,381.09	10,300.00	10,286.98	95.14	325.30	-65.55	3,910.69	-3,821.76	8,774.29	8,392.33	381.96	22.972		
23,420.60	12,381.00	10,300.00	10,286.98	95.28	325.30	-65.55	3,910.69	-3,821.76	8,791.09	8,409.07	382.02	23.012		
23,500.00	12,380.64	10,300.00	10,286.98	95.82	325.30	-65.55	3,910.69	-3,821.76	8,855.99	8,473.76	382.23	23.169		
23,510.60	12,380.60	10,300.00	10,286.98	95.89	325.30	-65.55	3,910.69	-3,821.76	8,864.67	8,482.42	382.26	23.190		

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 139-OWSG MWD Rev 4													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		
9,600.00	9,531.71	15,066.83	10,967.88	34.38	80.80	-88.08	14.78	483.19	1,548.35	1,483.10	65.24	23.732		
9,700.00	9,631.71	15,066.14	10,967.88	34.73	80.79	-88.17	14.08	483.18	1,452.77	1,386.36	66.41	21.876		
9,800.00	9,731.71	15,065.44	10,967.89	35.07	80.78	-88.27	13.38	483.18	1,357.83	1,290.09	67.74	20.045		
9,900.00	9,831.71	15,064.74	10,967.89	35.42	80.77	-88.36	12.68	483.17	1,263.67	1,194.40	69.28	18.241		
10,000.00	9,931.71	15,064.04	10,967.90	35.76	80.76	-88.45	11.99	483.16	1,170.49	1,099.41	71.08	16.468		
10,100.00	10,031.71	15,063.34	10,967.90	36.11	80.75	-88.54	11.29	483.15	1,078.52	1,005.32	73.20	14.734		
10,200.00	10,131.71	15,062.64	10,967.91	36.45	80.74	-88.63	10.59	483.15	988.11	912.37	75.74	13.046		
10,300.00	10,231.71	15,061.95	10,967.91	36.80	80.73	-88.72	9.89	483.14	899.73	820.92	78.81	11.417		
10,400.00	10,331.71	15,061.25	10,967.92	37.14	80.72	-88.81	9.19	483.13	814.05	731.51	82.54	9.863		
10,500.00	10,431.71	15,060.55	10,967.92	37.49	80.71	-88.90	8.50	483.13	732.01	644.93	87.08	8.406		
10,600.00	10,531.71	15,059.85	10,967.93	37.84	80.70	-88.99	7.80	483.12	654.97	562.41	92.57	7.076		
10,700.00	10,631.71	15,059.15	10,967.93	38.18	80.69	-89.08	7.10	483.11	584.93	485.91	99.02	5.907		
10,800.00	10,731.71	15,058.46	10,967.94	38.53	80.68	-89.17	6.40	483.11	524.69	418.55	106.15	4.943		
10,900.00	10,831.71	15,057.76	10,967.94	38.88	80.67	-89.26	5.70	483.10	477.97	364.93	113.04	4.228		
11,000.00	10,931.71	15,057.06	10,967.94	39.23	80.66	-89.35	5.01	483.09	449.01	330.96	118.05	3.804		
11,084.24	11,015.95	15,056.47	10,967.95	39.52	80.65	-89.43	4.42	483.09	441.04	321.58	119.46	3.692 CC, ES, SF		
11,100.00	11,031.71	15,056.36	10,967.95	39.57	80.65	-89.44	4.31	483.08	441.32	321.94	119.38	3.697		
11,200.00	11,131.71	15,055.66	10,967.95	39.92	80.64	-89.53	3.61	483.08	455.97	339.52	116.46	3.915		
11,300.00	11,231.71	15,054.97	10,967.96	40.27	80.63	-89.63	2.91	483.07	490.98	380.45	110.53	4.442		
11,400.00	11,331.71	15,054.27	10,967.96	40.62	80.62	-89.72	2.21	483.06	542.41	438.86	103.55	5.238		
11,500.00	11,431.71	15,053.57	10,967.97	40.97	80.61	-89.81	1.52	483.06	606.10	509.18	96.92	6.253		
11,600.00	11,531.71	15,052.87	10,967.97	41.32	80.60	-89.90	0.82	483.05	678.61	587.33	91.28	7.434		
11,700.00	11,631.71	15,052.17	10,967.98	41.66	80.59	-89.99	0.12	483.04	757.40	670.67	86.73	8.733		
11,800.00	11,731.71	15,051.47	10,967.98	42.01	80.58	-90.08	-0.58	483.04	840.71	757.55	83.16	10.109		
11,900.00	11,831.71	15,050.78	10,967.99	42.36	80.57	-90.17	-1.28	483.03	927.33	846.93	80.40	11.534		
12,000.00	11,931.71	15,050.08	10,967.99	42.71	80.56	-90.26	-1.98	483.02	1,016.41	938.13	78.28	12.984		
12,012.62	11,944.33	15,049.99	10,967.99	42.76	80.56	-90.27	-2.06	483.02	1,027.79	949.74	78.05	13.168		
12,025.00	11,956.71	15,050.06	10,967.99	42.80	80.56	-72.07	-2.00	483.02	1,038.97	961.14	77.83	13.349		
12,050.00	11,981.67	15,051.14	10,967.99	42.89	80.58	-66.13	-0.92	483.03	1,061.49	984.07	77.41	13.712		
12,075.00	12,006.53	15,053.47	10,967.97	42.97	80.61	-60.46	1.42	483.06	1,083.88	1,006.87	77.01	14.074		
12,100.00	12,031.22	15,057.06	10,967.94	43.06	80.66	-55.16	5.00	483.09	1,106.09	1,029.46	76.64	14.433		
12,125.00	12,055.67	15,061.88	10,967.91	43.14	80.73	-50.29	9.83	483.14	1,128.06	1,051.78	76.29	14.787		
12,150.00	12,079.82	15,067.93	10,967.87	43.22	80.82	-45.88	15.88	483.20	1,149.73	1,073.77	75.96	15.136		
12,175.00	12,103.60	15,075.19	10,967.82	43.30	80.93	-41.92	23.14	483.27	1,171.04	1,095.38	75.65	15.479		
12,200.00	12,126.93	15,083.65	10,967.76	43.38	81.05	-38.39	31.59	483.36	1,191.92	1,116.55	75.37	15.814		
12,225.00	12,149.77	15,091.79	10,967.70	43.45	81.17	-35.35	39.73	483.43	1,212.33	1,137.23	75.10	16.142		
12,250.00	12,172.05	15,100.80	10,967.62	43.52	81.30	-32.65	48.74	483.51	1,232.22	1,157.36	74.86	16.461		
12,275.00	12,193.70	15,110.70	10,967.53	43.59	81.44	-30.27	58.65	483.59	1,251.53	1,176.90	74.63	16.770		
12,300.00	12,214.67	15,121.47	10,967.41	43.65	81.60	-28.15	69.42	483.66	1,270.22	1,195.80	74.42	17.068		
12,325.00	12,234.89	15,133.08	10,967.26	43.71	81.77	-26.28	81.02	483.72	1,288.23	1,214.00	74.23	17.355		
12,350.00	12,254.33	15,145.48	10,967.09	43.77	81.95	-24.62	93.42	483.77	1,305.52	1,231.47	74.05	17.629		
12,375.00	12,272.91	15,158.65	10,966.88	43.82	82.14	-23.14	106.59	483.81	1,322.05	1,248.15	73.90	17.890		
12,400.00	12,290.59	15,180.00	10,966.50	43.87	82.46	-21.62	127.93	483.83	1,337.78	1,263.99	73.80	18.128		
12,425.00	12,307.32	15,187.82	10,966.35	43.91	82.57	-20.62	135.75	483.82	1,352.62	1,278.99	73.63	18.370		
12,450.00	12,323.05	15,204.52	10,966.02	43.95	82.82	-19.54	152.44	483.79	1,366.57	1,293.04	73.53	18.586		
12,475.00	12,337.75	15,221.92	10,965.65	43.98	83.07	-18.58	169.85	483.73	1,379.57	1,306.13	73.44	18.785		
12,500.00	12,351.37	15,239.99	10,965.26	44.01	83.34	-17.71	187.91	483.63	1,391.59	1,318.22	73.36	18.968		
12,512.62	12,357.83	15,249.35	10,965.05	44.03	83.48	-17.31	197.27	483.56	1,397.27	1,323.94	73.33	19.055		
12,525.00	12,363.89	15,258.69	10,964.84	44.04	83.61	-17.03	206.61	483.49	1,402.62	1,329.31	73.30	19.135		
12,550.00	12,375.38	15,278.25	10,964.38	44.06	83.90	-16.50	226.16	483.30	1,412.84	1,339.57	73.27	19.283		
12,575.00	12,385.81	15,299.66	10,963.87	44.08	84.22	-15.99	247.56	483.08	1,422.25	1,348.98	73.27	19.411		
12,600.00	12,395.16	15,321.63	10,963.33	44.10	84.54	-15.54	269.52	482.87	1,430.79	1,357.49	73.29	19.521		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A06_Offset Wild Salsa - W03 TRISTE DRAW 25 FEDERAL #001H 40877 - T #001H - MWD												Offset Site Error:	0.00 usft
Survey Program: 139-OWSG MWD Rev 4												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	
12,625.00	12,403.40	15,344.30	10,962.76	44.11	84.88	-15.13	292.19	482.66	1,438.43	1,365.08	73.34	19.612	
12,650.00	12,410.52	15,367.87	10,962.16	44.12	85.23	-14.77	315.75	482.45	1,445.13	1,371.72	73.42	19.684	
12,675.00	12,416.49	15,390.00	10,961.60	44.13	85.55	-14.48	337.87	482.25	1,450.87	1,377.38	73.50	19.740	
12,700.00	12,421.30	15,390.00	10,961.60	44.14	85.55	-14.34	337.87	482.25	1,455.86	1,382.37	73.49	19.811	
12,725.00	12,424.93	15,390.00	10,961.60	44.14	85.55	-14.18	337.87	482.25	1,460.26	1,386.75	73.51	19.866	
12,750.00	12,427.37	15,390.00	10,961.60	44.14	85.55	-14.02	337.87	482.25	1,464.05	1,390.50	73.55	19.906	
12,775.00	12,428.61	15,390.00	10,961.60	44.14	85.55	-13.84	337.87	482.25	1,467.24	1,393.62	73.62	19.930	
12,790.87	12,428.78	15,390.00	10,961.60	44.14	85.55	-13.73	337.87	482.25	1,468.95	1,395.27	73.68	19.937	
12,800.00	12,428.74	15,390.00	10,961.60	44.14	85.55	-13.73	337.87	482.25	1,469.89	1,396.18	73.72	19.940	
12,900.00	12,428.29	15,390.00	10,961.60	44.14	85.55	-13.73	337.87	482.25	1,483.83	1,409.63	74.20	19.997	
13,000.00	12,427.84	15,390.00	10,961.60	44.14	85.55	-13.73	337.87	482.25	1,504.31	1,429.50	74.81	20.108	
13,100.00	12,427.39	15,390.00	10,961.60	44.14	85.55	-13.73	337.87	482.25	1,531.05	1,455.55	75.50	20.279	
13,200.00	12,426.94	15,390.00	10,961.60	44.18	85.55	-13.73	337.87	482.25	1,563.74	1,487.51	76.24	20.512	
13,300.00	12,426.50	15,390.00	10,961.60	44.29	85.55	-13.73	337.87	482.25	1,602.02	1,525.03	76.99	20.808	
13,400.00	12,426.05	15,390.00	10,961.60	44.42	85.55	-13.73	337.87	482.25	1,645.49	1,567.76	77.74	21.168	
13,500.00	12,425.60	15,390.00	10,961.60	44.57	85.55	-13.73	337.87	482.25	1,693.76	1,615.30	78.46	21.589	
13,600.00	12,425.15	15,390.00	10,961.60	44.73	85.55	-13.73	337.87	482.25	1,746.43	1,667.29	79.14	22.069	
13,700.00	12,424.70	15,390.00	10,961.60	44.90	85.55	-13.73	337.87	482.25	1,803.10	1,723.33	79.77	22.604	
13,800.00	12,424.25	15,390.00	10,961.60	45.08	85.55	-13.73	337.87	482.25	1,863.43	1,783.07	80.35	23.191	
13,900.00	12,423.80	15,390.00	10,961.60	45.28	85.55	-13.73	337.87	482.25	1,927.05	1,846.17	80.88	23.825	
14,000.00	12,423.35	15,390.00	10,961.60	45.48	85.55	-13.73	337.87	482.25	1,993.67	1,912.30	81.37	24.502	

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A06_Offset Wild Salsa - W04 TRISTE DRAW 25 FEDERAL #002 41149 - T #002 - MWD													Offset Site Error:	0.00 usft
Survey Program: 111-OWSG MWD Rev 4													Offset Well Error:	0.00 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	
9,500.00	9,431.71	15,048.32	10,990.33	34.04	81.88	-87.81	66.65	-820.78	2,370.11	2,275.12	94.99	24.950		
9,600.00	9,531.71	15,048.16	10,990.33	34.38	81.87	-87.82	66.49	-820.78	2,303.67	2,206.73	96.95	23.763		
9,700.00	9,631.71	15,048.00	10,990.33	34.73	81.87	-87.82	66.33	-820.79	2,239.73	2,140.79	98.94	22.637		
9,800.00	9,731.71	15,047.84	10,990.33	35.07	81.87	-87.83	66.17	-820.79	2,178.50	2,077.52	100.98	21.574		
9,900.00	9,831.71	15,047.69	10,990.33	35.42	81.87	-87.83	66.02	-820.80	2,120.22	2,017.19	103.04	20.578		
10,000.00	9,931.71	15,047.53	10,990.33	35.76	81.86	-87.84	65.86	-820.80	2,065.14	1,960.04	105.10	19.649		
10,100.00	10,031.71	15,047.37	10,990.33	36.11	81.86	-87.84	65.70	-820.81	2,013.53	1,906.37	107.15	18.792		
10,200.00	10,131.71	15,047.22	10,990.33	36.45	81.86	-87.85	65.55	-820.82	1,965.64	1,856.48	109.16	18.006		
10,300.00	10,231.71	15,047.06	10,990.33	36.80	81.86	-87.85	65.39	-820.82	1,921.78	1,810.67	111.11	17.296		
10,400.00	10,331.71	15,046.91	10,990.33	37.14	81.86	-87.86	65.24	-820.83	1,882.21	1,769.24	112.97	16.662		
10,500.00	10,431.71	15,046.75	10,990.34	37.49	81.85	-87.86	65.09	-820.83	1,847.21	1,732.52	114.69	16.106		
10,600.00	10,531.71	15,046.60	10,990.34	37.84	81.85	-87.87	64.93	-820.84	1,817.05	1,700.79	116.26	15.630		
10,700.00	10,631.71	15,046.45	10,990.34	38.18	81.85	-87.87	64.78	-820.84	1,791.96	1,674.34	117.63	15.234		
10,800.00	10,731.71	15,046.29	10,990.34	38.53	81.85	-87.88	64.63	-820.85	1,772.18	1,653.41	118.77	14.921		
10,900.00	10,831.71	15,046.14	10,990.34	38.88	81.84	-87.88	64.48	-820.86	1,757.86	1,638.20	119.66	14.690		
11,000.00	10,931.71	15,045.99	10,990.34	39.23	81.84	-87.89	64.33	-820.86	1,749.16	1,628.88	120.28	14.542		
11,100.00	11,031.71	15,045.84	10,990.34	39.57	81.84	-87.89	64.18	-820.87	1,746.15	1,625.53	120.62	14.477		
11,102.63	11,034.34	15,045.84	10,990.34	39.58	81.84	-87.89	64.17	-820.87	1,746.14	1,625.52	120.62	14.476	CC, ES, SF	
11,200.00	11,131.71	15,045.69	10,990.34	39.92	81.84	-87.90	64.03	-820.87	1,748.86	1,628.19	120.66	14.494		
11,300.00	11,231.71	15,045.54	10,990.34	40.27	81.84	-87.90	63.88	-820.88	1,757.26	1,636.84	120.43	14.592		
11,400.00	11,331.71	15,045.39	10,990.34	40.62	81.83	-87.91	63.73	-820.88	1,771.29	1,651.36	119.93	14.770		
11,500.00	11,431.71	15,045.24	10,990.34	40.97	81.83	-87.91	63.58	-820.89	1,790.79	1,671.61	119.18	15.026		
11,600.00	11,531.71	15,045.10	10,990.34	41.32	81.83	-87.92	63.43	-820.89	1,815.60	1,697.39	118.21	15.359		
11,700.00	11,631.71	15,044.95	10,990.34	41.66	81.83	-87.92	63.28	-820.90	1,845.50	1,728.44	117.06	15.765		
11,800.00	11,731.71	15,044.80	10,990.34	42.01	81.82	-87.93	63.14	-820.90	1,880.25	1,764.49	115.76	16.242		
11,900.00	11,831.71	15,044.66	10,990.34	42.36	81.82	-87.93	62.99	-820.91	1,919.59	1,805.24	114.35	16.787		
12,000.00	11,931.71	15,044.51	10,990.34	42.71	81.82	-87.94	62.85	-820.92	1,963.24	1,850.38	112.86	17.396		
12,012.62	11,944.33	15,044.49	10,990.34	42.76	81.82	-87.94	62.83	-820.92	1,969.04	1,856.37	112.67	17.477		
12,025.00	11,956.71	15,044.62	10,990.34	42.80	81.82	-72.00	62.96	-820.91	1,974.75	1,862.27	112.48	17.557		
12,050.00	11,981.67	15,045.79	10,990.34	42.89	81.84	-70.50	64.13	-820.87	1,986.19	1,874.08	112.10	17.717		
12,075.00	12,006.53	15,048.17	10,990.33	42.97	81.87	-69.00	66.50	-820.78	1,997.49	1,885.75	111.74	17.876		
12,100.00	12,031.22	15,051.75	10,990.33	43.06	81.92	-67.50	70.08	-820.65	2,008.62	1,897.23	111.39	18.033		
12,125.00	12,055.67	15,056.51	10,990.32	43.14	81.99	-66.01	74.84	-820.47	2,019.54	1,908.49	111.05	18.186		
12,150.00	12,079.82	15,062.93	10,990.31	43.22	82.09	-64.53	81.26	-820.24	2,030.21	1,919.49	110.72	18.336		
12,175.00	12,103.60	15,070.80	10,990.30	43.30	82.20	-63.07	89.12	-819.95	2,040.61	1,930.19	110.42	18.481		
12,200.00	12,126.93	15,079.94	10,990.28	43.38	82.33	-61.64	98.25	-819.61	2,050.68	1,940.56	110.13	18.621		
12,225.00	12,149.77	15,090.33	10,990.27	43.45	82.48	-60.25	108.63	-819.22	2,060.40	1,950.55	109.86	18.756		
12,250.00	12,172.05	15,101.93	10,990.25	43.52	82.65	-58.90	120.22	-818.78	2,069.73	1,960.13	109.60	18.885		
12,275.00	12,193.70	15,114.72	10,990.24	43.59	82.84	-57.61	133.00	-818.29	2,078.61	1,969.26	109.36	19.007		
12,300.00	12,214.67	15,128.65	10,990.23	43.65	83.04	-56.37	146.93	-817.75	2,087.03	1,977.89	109.14	19.123		
12,325.00	12,234.89	15,143.70	10,990.21	43.71	83.26	-55.19	161.96	-817.16	2,094.93	1,986.00	108.93	19.232		
12,350.00	12,254.33	15,159.28	10,990.21	43.77	83.48	-54.09	177.53	-816.55	2,102.29	1,993.55	108.74	19.333		
12,375.00	12,272.91	15,175.26	10,990.21	43.82	83.72	-53.07	193.50	-815.92	2,109.07	2,000.50	108.56	19.427		
12,400.00	12,290.59	15,192.18	10,990.23	43.87	83.96	-52.13	210.40	-815.27	2,115.23	2,006.83	108.41	19.512		
12,425.00	12,307.32	15,209.99	10,990.26	43.91	84.22	-51.26	228.20	-814.59	2,120.75	2,012.49	108.27	19.588		
12,450.00	12,323.05	15,228.65	10,990.30	43.95	84.49	-50.46	246.85	-813.89	2,125.60	2,017.45	108.15	19.654		
12,475.00	12,337.75	15,247.99	10,990.36	43.98	84.77	-49.75	266.18	-813.18	2,129.74	2,021.69	108.05	19.711		
12,500.00	12,351.37	15,268.04	10,990.42	44.01	85.07	-49.11	286.22	-812.43	2,133.15	2,025.18	107.97	19.756		
12,512.62	12,357.83	15,278.42	10,990.45	44.03	85.22	-48.83	296.58	-812.04	2,134.59	2,026.65	107.94	19.776		
12,525.00	12,363.89	15,288.76	10,990.48	44.04	85.37	-48.91	306.92	-811.66	2,135.88	2,027.96	107.92	19.792		
12,550.00	12,375.38	15,300.00	10,990.52	44.06	85.53	-49.17	318.15	-811.24	2,138.32	2,030.54	107.78	19.839		
12,575.00	12,385.81	15,300.00	10,990.52	44.08	85.53	-49.50	318.15	-811.24	2,140.71	2,033.16	107.55	19.904		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A06_Offset Wild Salsa - W04 TRISTE DRAW 25 FEDERAL #002 41149 - T #002 - MWD												Offset Site Error:	0.00 usft
Survey Program: 111-OWSG MWD Rev 4												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
12,600.00	12,395.16	15,300.00	10,990.52	44.10	85.53	-49.75	318.15	-811.24	2,143.06	2,035.72	107.34	19.964	
12,625.00	12,403.40	15,300.00	10,990.52	44.11	85.53	-49.93	318.15	-811.24	2,145.37	2,038.21	107.16	20.020	
12,650.00	12,410.52	15,300.00	10,990.52	44.12	85.53	-50.04	318.15	-811.24	2,147.63	2,040.63	107.00	20.072	
12,675.00	12,416.49	15,300.00	10,990.52	44.13	85.53	-50.09	318.15	-811.24	2,149.83	2,042.97	106.86	20.118	
12,700.00	12,421.30	15,300.00	10,990.52	44.14	85.53	-50.09	318.15	-811.24	2,151.97	2,045.22	106.75	20.159	
12,725.00	12,424.93	15,300.00	10,990.52	44.14	85.53	-50.02	318.15	-811.24	2,154.05	2,047.38	106.66	20.195	
12,750.00	12,427.37	15,300.00	10,990.52	44.14	85.53	-49.91	318.15	-811.24	2,156.05	2,049.45	106.60	20.225	
12,775.00	12,428.61	15,300.00	10,990.52	44.14	85.53	-49.75	318.15	-811.24	2,157.97	2,051.41	106.57	20.250	
12,790.87	12,428.78	15,300.00	10,990.52	44.14	85.53	-49.62	318.15	-811.24	2,159.15	2,052.59	106.56	20.262	
12,800.00	12,428.74	15,300.00	10,990.52	44.14	85.53	-49.62	318.15	-811.24	2,159.84	2,053.28	106.56	20.269	
12,900.00	12,428.29	15,300.00	10,990.52	44.14	85.53	-49.62	318.15	-811.24	2,169.88	2,063.37	106.51	20.373	
13,000.00	12,427.84	15,300.00	10,990.52	44.14	85.53	-49.62	318.15	-811.24	2,184.45	2,078.04	106.41	20.529	
13,100.00	12,427.39	15,300.00	10,990.52	44.14	85.53	-49.62	318.15	-811.24	2,203.46	2,097.20	106.26	20.736	
13,200.00	12,426.94	15,300.00	10,990.52	44.18	85.53	-49.62	318.15	-811.24	2,226.81	2,120.75	106.07	20.994	
13,300.00	12,426.50	15,300.00	10,990.52	44.29	85.53	-49.62	318.15	-811.24	2,254.36	2,148.53	105.83	21.302	
13,400.00	12,426.05	15,300.00	10,990.52	44.42	85.53	-49.62	318.15	-811.24	2,285.96	2,180.40	105.55	21.657	
13,500.00	12,425.60	15,300.00	10,990.52	44.57	85.53	-49.62	318.15	-811.24	2,321.43	2,216.19	105.24	22.059	
13,600.00	12,425.15	15,300.00	10,990.52	44.73	85.53	-49.62	318.15	-811.24	2,360.61	2,255.72	104.89	22.505	
13,700.00	12,424.70	15,300.00	10,990.52	44.90	85.53	-49.62	318.15	-811.24	2,403.32	2,298.80	104.52	22.994	
13,800.00	12,424.25	15,300.00	10,990.52	45.08	85.53	-49.62	318.15	-811.24	2,449.36	2,345.24	104.12	23.523	
13,900.00	12,423.80	15,300.00	10,990.52	45.28	85.53	-49.62	318.15	-811.24	2,498.57	2,394.85	103.71	24.092	
14,000.00	12,423.35	15,300.00	10,990.52	45.48	85.53	-49.62	318.15	-811.24	2,550.74	2,447.46	103.28	24.697	

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 199-OWSG MWD Rev 4													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		
8,600.00	8,531.71	14,054.09	9,846.88	30.95	79.95	176.80	-11.45	742.68	1,379.12	1,322.10	57.02	24.185		
8,668.29	8,600.00	14,055.38	9,846.91	31.19	79.97	-93.22	-10.16	742.79	1,311.54	1,254.10	57.44	22.833		
8,700.00	8,631.71	14,055.96	9,846.92	31.30	79.98	-93.04	-9.59	742.84	1,280.15	1,222.51	57.64	22.210		
8,800.00	8,731.71	14,057.79	9,846.95	31.64	80.01	-92.47	-7.77	742.99	1,181.24	1,122.93	58.31	20.258		
8,900.00	8,831.71	14,059.62	9,846.99	31.98	80.03	-91.89	-5.94	743.14	1,082.53	1,023.45	59.08	18.324		
9,000.00	8,931.71	14,061.47	9,847.03	32.32	80.06	-91.31	-4.10	743.29	984.08	924.10	59.98	16.407		
9,100.00	9,031.71	14,063.31	9,847.06	32.66	80.09	-90.73	-2.26	743.44	885.97	824.91	61.07	14.508		
9,200.00	9,131.71	14,065.17	9,847.10	33.01	80.12	-90.14	-0.42	743.59	788.33	725.91	62.42	12.630		
9,300.00	9,231.71	14,067.03	9,847.13	33.35	80.14	-89.55	1.44	743.74	691.37	627.20	64.17	10.774		
9,400.00	9,331.71	14,070.00	9,847.19	33.69	80.19	-88.61	4.40	743.98	595.40	528.85	66.55	8.946		
9,500.00	9,431.71	14,070.00	9,847.19	34.04	80.19	-88.61	4.40	743.98	501.00	431.09	69.92	7.166		
9,600.00	9,531.71	14,070.00	9,847.19	34.38	80.19	-88.61	4.40	743.98	409.28	334.29	74.99	5.458		
9,700.00	9,631.71	14,070.00	9,847.19	34.73	80.19	-88.61	4.40	743.98	322.51	239.46	83.04	3.884		
9,800.00	9,731.71	14,070.00	9,847.19	35.07	80.19	-88.61	4.40	743.98	245.99	150.26	95.73	2.570		
9,900.00	9,831.71	14,070.00	9,847.19	35.42	80.19	-88.61	4.40	743.98	192.40	81.41	110.98	1.734		
9,967.66	9,899.37	14,078.39	9,847.36	35.65	80.31	-85.94	12.77	744.61	179.94	64.89	115.05	1.564 CC, ES, SF		
10,000.00	9,931.71	14,078.91	9,847.37	35.76	80.32	-85.78	13.28	744.65	182.82	69.99	112.84	1.620		
10,100.00	10,031.71	14,080.50	9,847.40	36.11	80.34	-85.27	14.87	744.76	223.36	127.13	96.23	2.321		
10,200.00	10,131.71	14,082.07	9,847.43	36.45	80.36	-84.77	16.44	744.87	293.85	212.65	81.20	3.619		
10,300.00	10,231.71	14,083.63	9,847.46	36.80	80.39	-84.28	17.99	744.97	377.89	305.44	72.45	5.216		
10,400.00	10,331.71	14,085.16	9,847.48	37.14	80.41	-83.79	19.52	745.07	468.24	400.52	67.72	6.915		
10,500.00	10,431.71	14,086.68	9,847.51	37.49	80.43	-83.30	21.04	745.16	561.86	496.74	65.12	8.628		
10,600.00	10,531.71	14,088.19	9,847.54	37.84	80.45	-82.83	22.54	745.26	657.36	593.68	63.69	10.322		
10,700.00	10,631.71	14,089.67	9,847.57	38.18	80.48	-82.36	24.02	745.34	754.03	691.13	62.90	11.988		
10,800.00	10,731.71	14,091.14	9,847.59	38.53	80.50	-81.89	25.49	745.43	851.46	788.97	62.49	13.625		
10,900.00	10,831.71	14,092.60	9,847.62	38.88	80.52	-81.43	26.94	745.51	949.42	887.09	62.33	15.233		
11,000.00	10,931.71	14,094.04	9,847.65	39.23	80.54	-80.98	28.38	745.59	1,047.77	985.45	62.32	16.814		
11,100.00	11,031.71	14,095.46	9,847.67	39.57	80.56	-80.53	29.80	745.66	1,146.40	1,083.99	62.41	18.370		
11,200.00	11,131.71	14,096.87	9,847.70	39.92	80.58	-80.08	31.21	745.74	1,245.24	1,182.67	62.57	19.902		
11,300.00	11,231.71	14,098.27	9,847.72	40.27	80.60	-79.65	32.60	745.81	1,344.26	1,281.47	62.78	21.411		
11,400.00	11,331.71	14,099.65	9,847.75	40.62	80.62	-79.22	33.98	745.87	1,443.41	1,380.37	63.03	22.899		
11,500.00	11,431.71	14,101.01	9,847.77	40.97	80.64	-78.79	35.34	745.94	1,542.66	1,479.35	63.31	24.366		

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 121-OWSG MWD Rev 4													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		
8,668.29	8,600.00	14,254.50	9,873.81	31.19	80.63	-89.94	2.00	-1,042.93	2,372.69	2,276.83	95.86	24.751		
8,700.00	8,631.71	14,254.70	9,873.81	31.30	80.63	-89.94	2.21	-1,042.93	2,355.10	2,258.65	96.45	24.417		
8,800.00	8,731.71	14,255.34	9,873.82	31.64	80.64	-89.92	2.85	-1,042.93	2,301.63	2,203.31	98.32	23.410		
8,900.00	8,831.71	14,255.97	9,873.82	31.98	80.65	-89.90	3.48	-1,042.93	2,251.33	2,151.15	100.18	22.473		
9,000.00	8,931.71	14,256.59	9,873.82	32.32	80.66	-89.88	4.10	-1,042.92	2,204.42	2,102.39	102.02	21.607		
9,100.00	9,031.71	14,257.20	9,873.83	32.66	80.67	-89.86	4.71	-1,042.92	2,161.12	2,057.29	103.82	20.815		
9,200.00	9,131.71	14,257.81	9,873.83	33.01	80.68	-89.85	5.31	-1,042.92	2,121.65	2,016.08	105.57	20.098		
9,300.00	9,231.71	14,258.40	9,873.83	33.35	80.68	-89.83	5.90	-1,042.91	2,086.24	1,979.01	107.23	19.456		
9,400.00	9,331.71	14,258.98	9,873.84	33.69	80.69	-89.81	6.49	-1,042.91	2,055.08	1,946.30	108.78	18.892		
9,500.00	9,431.71	14,259.55	9,873.84	34.04	80.70	-89.80	7.06	-1,042.91	2,028.38	1,918.17	110.21	18.405		
9,600.00	9,531.71	14,260.12	9,873.84	34.38	80.71	-89.78	7.63	-1,042.91	2,006.31	1,894.83	111.48	17.997		
9,700.00	9,631.71	14,260.68	9,873.84	34.73	80.72	-89.76	8.18	-1,042.90	1,989.04	1,876.45	112.59	17.667		
9,800.00	9,731.71	14,261.23	9,873.85	35.07	80.73	-89.75	8.73	-1,042.90	1,976.68	1,863.17	113.50	17.416		
9,900.00	9,831.71	14,261.77	9,873.85	35.42	80.73	-89.73	9.27	-1,042.90	1,969.32	1,855.11	114.21	17.243		
9,995.14	9,926.85	14,262.28	9,873.85	35.74	80.74	-89.72	9.78	-1,042.89	1,967.02	1,852.33	114.69	17.151 CC		
10,000.00	9,931.71	14,262.30	9,873.85	35.76	80.74	-89.72	9.81	-1,042.89	1,967.03	1,852.31	114.71	17.148 ES		
10,100.00	10,031.71	14,262.83	9,873.85	36.11	80.75	-89.70	10.33	-1,042.89	1,969.81	1,854.82	114.99	17.130 SF		
10,200.00	10,131.71	14,263.34	9,873.86	36.45	80.76	-89.68	10.85	-1,042.89	1,977.66	1,862.60	115.06	17.188		
10,300.00	10,231.71	14,263.86	9,873.86	36.80	80.76	-89.67	11.36	-1,042.89	1,990.50	1,875.58	114.92	17.320		
10,400.00	10,331.71	14,264.36	9,873.86	37.14	80.77	-89.66	11.86	-1,042.88	2,008.25	1,893.66	114.59	17.526		
10,500.00	10,431.71	14,264.86	9,873.86	37.49	80.78	-89.64	12.36	-1,042.88	2,030.77	1,916.70	114.07	17.802		
10,600.00	10,531.71	14,265.34	9,873.87	37.84	80.79	-89.63	12.85	-1,042.88	2,057.91	1,944.51	113.40	18.148		
10,700.00	10,631.71	14,265.83	9,873.87	38.18	80.79	-89.61	13.33	-1,042.88	2,089.49	1,976.90	112.59	18.559		
10,800.00	10,731.71	14,266.30	9,873.87	38.53	80.80	-89.60	13.81	-1,042.87	2,125.31	2,013.65	111.66	19.034		
10,900.00	10,831.71	14,266.77	9,873.87	38.88	80.81	-89.58	14.28	-1,042.87	2,165.16	2,054.52	110.64	19.570		
11,000.00	10,931.71	14,267.24	9,873.88	39.23	80.81	-89.57	14.74	-1,042.87	2,208.82	2,099.28	109.54	20.164		
11,100.00	11,031.71	14,267.69	9,873.88	39.57	80.82	-89.56	15.20	-1,042.87	2,256.07	2,147.67	108.40	20.813		
11,200.00	11,131.71	14,268.15	9,873.88	39.92	80.83	-89.54	15.65	-1,042.86	2,306.69	2,199.46	107.22	21.513		
11,300.00	11,231.71	14,268.59	9,873.88	40.27	80.83	-89.53	16.10	-1,042.86	2,360.46	2,254.43	106.03	22.262		
11,400.00	11,331.71	14,269.03	9,873.88	40.62	80.84	-89.52	16.54	-1,042.86	2,417.18	2,312.33	104.84	23.055		
11,500.00	11,431.71	14,269.46	9,873.88	40.97	80.85	-89.51	16.97	-1,042.86	2,476.63	2,372.96	103.67	23.890		
11,600.00	11,531.71	14,269.89	9,873.89	41.32	80.85	-89.49	17.40	-1,042.86	2,538.63	2,436.12	102.52	24.763		

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A06_Offset Wild Salsa - W14 RED DEER 24 FEDERAL #001 33955 - Red #001 - Inc Only													Offset Site Error:	0.00 usft
Survey Program: 276-INC-ONLY													Offset Well Error:	0.00 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	
5,800.00	5,760.45	5,723.03	5,722.45	20.65	110.41	-108.50	3,060.89	-503.62	3,231.57	3,100.60	130.97	24.674	CC, ES	
5,900.00	5,859.30	5,821.87	5,821.30	21.02	112.15	-108.75	3,060.89	-503.62	3,236.47	3,103.40	133.07	24.322		
6,000.00	5,958.14	5,925.24	5,924.66	21.38	113.96	-109.01	3,061.36	-503.62	3,241.88	3,106.63	135.25	23.969		
6,100.00	6,056.98	6,029.80	6,029.21	21.75	115.80	-109.28	3,061.11	-503.62	3,246.68	3,109.23	137.45	23.620		
6,200.00	6,155.82	6,118.41	6,117.82	22.12	117.36	-109.51	3,060.89	-503.62	3,251.55	3,112.18	139.37	23.330		
6,300.00	6,254.66	6,217.25	6,216.66	22.49	119.10	-109.76	3,060.89	-503.62	3,256.70	3,115.22	141.48	23.019		
6,400.00	6,353.50	6,316.09	6,315.50	22.86	120.85	-110.00	3,060.89	-503.62	3,261.92	3,118.33	143.59	22.717		
6,500.00	6,452.34	6,417.55	6,416.96	23.23	122.63	-110.26	3,061.11	-503.62	3,267.40	3,121.66	145.74	22.419		
6,600.00	6,551.18	6,519.25	6,518.66	23.60	124.43	-110.51	3,060.97	-503.62	3,272.62	3,124.72	147.90	22.127		
6,700.00	6,650.02	6,612.62	6,612.02	23.97	126.18	-110.74	3,060.89	-503.62	3,277.94	3,127.92	150.01	21.851		
6,800.00	6,748.86	6,711.46	6,710.86	24.34	128.13	-110.99	3,060.89	-503.62	3,283.40	3,131.07	152.33	21.555		
6,900.00	6,847.71	6,810.30	6,809.71	24.71	130.07	-111.23	3,060.89	-503.62	3,288.92	3,134.29	154.64	21.269		
7,000.00	6,946.55	6,913.98	6,913.38	25.08	132.11	-111.49	3,061.38	-503.62	3,294.97	3,137.92	157.04	20.981		
7,100.00	7,045.39	7,018.21	7,017.61	25.45	134.17	-111.74	3,061.12	-503.62	3,300.39	3,140.92	159.46	20.697		
7,200.00	7,144.23	7,116.87	7,116.23	25.82	135.93	-111.96	3,060.89	-503.62	3,305.86	3,144.27	161.59	20.459		
7,300.00	7,243.07	7,215.71	7,215.07	26.19	137.95	-112.20	3,060.89	-503.62	3,311.62	3,147.66	163.97	20.197		
7,400.00	7,341.91	7,314.78	7,314.12	26.56	140.29	-112.48	3,061.30	-503.62	3,317.87	3,151.19	166.68	19.906		
7,500.00	7,440.75	7,413.43	7,412.75	26.93	141.98	-112.68	3,060.89	-503.62	3,323.33	3,154.61	168.72	19.697		
7,600.00	7,539.59	7,512.27	7,511.59	27.30	143.99	-112.92	3,060.89	-503.62	3,329.27	3,158.17	171.10	19.458		
7,700.00	7,638.43	7,611.11	7,610.43	27.67	146.01	-113.16	3,060.89	-503.62	3,335.27	3,161.79	173.48	19.226		
7,800.00	7,737.27	7,710.95	7,710.26	28.04	148.14	-113.41	3,061.64	-503.62	3,342.02	3,166.04	175.98	18.991		
7,900.00	7,836.12	7,813.38	7,812.69	28.41	150.33	-113.67	3,061.28	-503.62	3,347.83	3,169.30	178.54	18.751		
8,000.00	7,934.96	7,917.70	7,916.96	28.78	152.10	-113.87	3,060.89	-503.62	3,353.62	3,172.96	180.66	18.563		
8,086.18	8,020.14	7,982.88	7,982.14	29.10	154.08	-114.07	3,060.89	-503.62	3,358.99	3,176.03	182.95	18.360		
8,100.00	8,033.80	7,996.54	7,995.80	29.15	154.39	-114.11	3,060.89	-503.62	3,359.84	3,176.52	183.32	18.328		
8,200.00	8,132.88	8,095.62	8,094.88	29.52	156.70	-114.40	3,060.89	-503.62	3,365.44	3,179.46	185.98	18.095		
8,300.00	8,232.28	8,202.89	8,202.14	29.88	159.19	-114.63	3,061.88	-503.62	3,370.91	3,182.07	188.84	17.851		
8,400.00	8,331.93	8,314.60	8,313.84	30.24	161.78	-114.82	3,061.37	-503.62	3,373.99	3,182.19	191.79	17.592		
8,500.00	8,431.76	8,394.65	8,393.76	30.60	163.66	-114.93	3,060.89	-503.62	3,375.89	3,181.88	194.02	17.400		
8,600.00	8,531.71	8,494.60	8,493.71	30.95	166.06	-114.99	3,060.89	-503.62	3,377.20	3,180.43	196.78	17.163		
8,668.29	8,600.00	8,562.89	8,562.00	31.19	167.71	-25.01	3,060.89	-503.62	3,377.46	3,178.80	198.66	17.001		
8,700.00	8,631.71	8,603.12	8,602.21	31.30	168.68	-25.00	3,062.29	-503.62	3,378.74	3,179.01	199.74	16.916		
8,800.00	8,731.71	8,735.77	8,734.83	31.64	171.87	-25.00	3,061.22	-503.62	3,378.01	3,174.74	203.27	16.618		
8,900.00	8,831.71	8,794.72	8,793.71	31.98	173.22	-25.01	3,060.89	-503.62	3,377.46	3,172.50	204.96	16.479		
9,000.00	8,931.71	8,894.72	8,893.71	32.32	175.41	-25.01	3,060.89	-503.62	3,377.46	3,169.96	207.50	16.277		
9,100.00	9,031.71	8,994.72	8,993.71	32.66	177.60	-25.01	3,060.89	-503.62	3,377.46	3,167.43	210.03	16.081		
9,200.00	9,131.71	9,094.72	9,093.71	33.01	179.80	-25.01	3,060.89	-503.62	3,377.46	3,164.89	212.57	15.889		
9,300.00	9,231.71	9,101.00	9,099.92	33.35	179.93	-25.01	3,060.89	-503.62	3,378.76	3,165.81	212.95	15.866	SF	
9,400.00	9,331.71	9,101.00	9,099.92	33.69	179.93	-25.01	3,060.89	-503.62	3,383.02	3,170.00	213.02	15.882		
9,500.00	9,431.71	9,101.00	9,099.92	34.04	179.93	-25.01	3,060.89	-503.62	3,390.21	3,177.30	212.91	15.923		
9,600.00	9,531.71	9,101.00	9,099.92	34.38	179.93	-25.01	3,060.89	-503.62	3,400.34	3,187.71	212.63	15.992		
9,700.00	9,631.71	9,101.00	9,099.92	34.73	179.93	-25.01	3,060.89	-503.62	3,413.37	3,201.17	212.19	16.086		
9,800.00	9,731.71	9,101.00	9,099.92	35.07	179.93	-25.01	3,060.89	-503.62	3,429.26	3,217.66	211.60	16.207		
9,900.00	9,831.71	9,101.00	9,099.92	35.42	179.93	-25.01	3,060.89	-503.62	3,447.98	3,237.14	210.85	16.353		
10,000.00	9,931.71	9,101.00	9,099.92	35.76	179.93	-25.01	3,060.89	-503.62	3,469.49	3,259.54	209.95	16.525		
10,100.00	10,031.71	9,101.00	9,099.92	36.11	179.93	-25.01	3,060.89	-503.62	3,493.72	3,284.80	208.92	16.723		
10,200.00	10,131.71	9,101.00	9,099.92	36.45	179.93	-25.01	3,060.89	-503.62	3,520.63	3,312.87	207.76	16.945		
10,300.00	10,231.71	9,101.00	9,099.92	36.80	179.93	-25.01	3,060.89	-503.62	3,550.16	3,343.67	206.49	17.193		
10,400.00	10,331.71	9,101.00	9,099.92	37.14	179.93	-25.01	3,060.89	-503.62	3,582.23	3,377.12	205.11	17.465		
10,500.00	10,431.71	9,101.00	9,099.92	37.49	179.93	-25.01	3,060.89	-503.62	3,616.78	3,413.16	203.63	17.762		
10,600.00	10,531.71	9,101.00	9,099.92	37.84	179.93	-25.01	3,060.89	-503.62	3,653.75	3,451.69	202.06	18.082		
10,700.00	10,631.71	9,101.00	9,099.92	38.18	179.93	-25.01	3,060.89	-503.62	3,693.05	3,492.63	200.42	18.426		

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A06_Offset Wild Salsa - W14 RED DEER 24 FEDERAL #001 33955 - Red #001 - Inc Only												Offset Site Error:	0.00 usft
Survey Program: 276-INC-ONLY												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	
10,800.00	10,731.71	9,101.00	9,099.92	38.53	179.93	-25.01	3,060.89	-503.62	3,734.62	3,535.91	198.71	18.794	
10,900.00	10,831.71	9,101.00	9,099.92	38.88	179.93	-25.01	3,060.89	-503.62	3,778.38	3,581.43	196.95	19.185	
11,000.00	10,931.71	9,101.00	9,099.92	39.23	179.93	-25.01	3,060.89	-503.62	3,824.25	3,629.12	195.14	19.598	
11,100.00	11,031.71	9,101.00	9,099.92	39.57	179.93	-25.01	3,060.89	-503.62	3,872.17	3,678.88	193.28	20.034	
11,200.00	11,131.71	9,101.00	9,099.92	39.92	179.93	-25.01	3,060.89	-503.62	3,922.04	3,730.64	191.40	20.491	
11,300.00	11,231.71	9,101.00	9,099.92	40.27	179.93	-25.01	3,060.89	-503.62	3,973.81	3,784.31	189.50	20.970	
11,400.00	11,331.71	9,101.00	9,099.92	40.62	179.93	-25.01	3,060.89	-503.62	4,027.40	3,839.82	187.58	21.470	
11,500.00	11,431.71	9,101.00	9,099.92	40.97	179.93	-25.01	3,060.89	-503.62	4,082.73	3,897.08	185.66	21.991	
11,600.00	11,531.71	9,101.00	9,099.92	41.32	179.93	-25.01	3,060.89	-503.62	4,139.74	3,956.01	183.73	22.532	
11,700.00	11,631.71	9,101.00	9,099.92	41.66	179.93	-25.01	3,060.89	-503.62	4,198.36	4,016.55	181.81	23.092	
11,800.00	11,731.71	9,101.00	9,099.92	42.01	179.93	-25.01	3,060.89	-503.62	4,258.52	4,078.62	179.90	23.672	
11,900.00	11,831.71	9,101.00	9,099.92	42.36	179.93	-25.01	3,060.89	-503.62	4,320.16	4,142.16	178.00	24.271	
12,000.00	11,931.71	9,101.00	9,099.92	42.71	179.93	-25.01	3,060.89	-503.62	4,383.21	4,207.09	176.12	24.888	
12,012.62	11,944.33	9,101.00	9,099.92	42.76	179.93	-25.01	3,060.89	-503.62	4,391.26	4,215.38	175.88	24.967	

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A06_Offset Wild Salsa - W15 FIELDS #001 08119 - F #001 - Depth Only												Offset Site Error:	0.00 usft
Survey Program: 5210-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
1,700.00	1,700.00	1,666.00	1,666.00	5.87	52.62	20.65	1,321.62	498.19	1,412.40	1,353.91	58.49	24.149	
1,800.00	1,800.00	1,766.00	1,766.00	6.23	55.78	20.65	1,321.62	498.19	1,412.40	1,350.39	62.00	22.779	
1,900.00	1,900.00	1,866.00	1,866.00	6.59	58.93	20.65	1,321.62	498.19	1,412.40	1,346.88	65.52	21.557	
2,000.00	2,000.00	1,966.00	1,966.00	6.95	62.09	20.65	1,321.62	498.19	1,412.40	1,343.36	69.04	20.458	
2,100.00	2,099.99	2,065.99	2,065.99	7.30	65.25	-69.40	1,321.62	498.19	1,411.94	1,339.39	72.54	19.463	
2,200.00	2,199.91	2,165.91	2,165.91	7.64	68.41	-69.57	1,321.62	498.19	1,410.56	1,334.52	76.04	18.549	
2,300.00	2,299.69	2,265.69	2,265.69	7.98	71.56	-69.85	1,321.62	498.19	1,408.29	1,328.75	79.54	17.706	
2,400.00	2,399.27	2,365.27	2,365.27	8.33	74.70	-70.24	1,321.62	498.19	1,405.15	1,322.12	83.03	16.923	
2,500.00	2,498.57	2,464.57	2,464.57	8.68	77.84	-70.75	1,321.62	498.19	1,401.20	1,314.69	86.51	16.196	
2,582.11	2,579.86	2,545.86	2,545.86	8.96	80.41	-71.25	1,321.62	498.19	1,397.39	1,308.03	89.37	15.636	
2,600.00	2,597.54	2,563.54	2,563.54	9.03	80.96	-71.35	1,321.62	498.19	1,396.51	1,306.52	89.99	15.519	
2,700.00	2,696.38	2,662.38	2,662.38	9.38	84.09	-71.94	1,321.62	498.19	1,391.68	1,298.22	93.46	14.890	
2,800.00	2,795.22	2,761.22	2,761.22	9.73	87.21	-72.53	1,321.62	498.19	1,387.00	1,290.06	96.94	14.308	
2,900.00	2,894.07	2,860.07	2,860.07	10.09	90.33	-73.12	1,321.62	498.19	1,382.47	1,282.06	100.41	13.768	
3,000.00	2,992.91	2,958.91	2,958.91	10.44	93.45	-73.72	1,321.62	498.19	1,378.09	1,274.20	103.89	13.265	
3,100.00	3,091.75	3,057.75	3,057.75	10.80	96.57	-74.32	1,321.62	498.19	1,373.87	1,266.50	107.37	12.796	
3,200.00	3,190.59	3,156.59	3,156.59	11.16	99.69	-74.92	1,321.62	498.19	1,369.80	1,258.95	110.85	12.357	
3,300.00	3,289.43	3,255.43	3,255.43	11.52	102.82	-75.53	1,321.62	498.19	1,365.88	1,251.56	114.33	11.947	
3,400.00	3,388.27	3,354.27	3,354.27	11.88	105.94	-76.14	1,321.62	498.19	1,362.13	1,244.32	117.81	11.562	
3,500.00	3,487.11	3,453.11	3,453.11	12.24	109.06	-76.76	1,321.62	498.19	1,358.53	1,237.24	121.29	11.200	
3,600.00	3,585.95	3,551.95	3,551.95	12.60	112.18	-77.38	1,321.62	498.19	1,355.10	1,230.32	124.78	10.860	
3,700.00	3,684.79	3,650.79	3,650.79	12.96	115.30	-78.00	1,321.62	498.19	1,351.83	1,223.57	128.26	10.540	
3,800.00	3,783.63	3,749.63	3,749.63	13.32	118.42	-78.62	1,321.62	498.19	1,348.72	1,216.97	131.74	10.237	
3,900.00	3,882.48	3,848.48	3,848.48	13.68	121.55	-79.25	1,321.62	498.19	1,345.77	1,210.54	135.23	9.952	
4,000.00	3,981.32	3,947.32	3,947.32	14.05	124.67	-79.88	1,321.62	498.19	1,342.99	1,204.27	138.71	9.682	
4,100.00	4,080.16	4,046.16	4,046.16	14.41	127.79	-80.51	1,321.62	498.19	1,340.37	1,198.17	142.20	9.426	
4,200.00	4,179.00	4,145.00	4,145.00	14.78	130.91	-81.14	1,321.62	498.19	1,337.92	1,192.24	145.69	9.184	
4,300.00	4,277.84	4,243.84	4,243.84	15.14	134.03	-81.78	1,321.62	498.19	1,335.64	1,186.47	149.17	8.954	
4,400.00	4,376.68	4,342.68	4,342.68	15.51	137.15	-82.42	1,321.62	498.19	1,333.53	1,180.87	152.66	8.735	
4,500.00	4,475.52	4,441.52	4,441.52	15.87	140.28	-83.06	1,321.62	498.19	1,331.59	1,175.44	156.15	8.528	
4,600.00	4,574.36	4,540.36	4,540.36	16.24	143.40	-83.70	1,321.62	498.19	1,329.82	1,170.19	159.63	8.330	
4,700.00	4,673.20	4,639.20	4,639.20	16.60	146.52	-84.34	1,321.62	498.19	1,328.22	1,165.10	163.12	8.142	
4,800.00	4,772.04	4,738.04	4,738.04	16.97	149.64	-84.99	1,321.62	498.19	1,326.79	1,160.18	166.61	7.963	
4,900.00	4,870.89	4,836.89	4,836.89	17.34	152.76	-85.63	1,321.62	498.19	1,325.54	1,155.44	170.10	7.793	
5,000.00	4,969.73	4,935.73	4,935.73	17.70	155.88	-86.28	1,321.62	498.19	1,324.46	1,150.87	173.59	7.630	
5,100.00	5,068.57	5,034.57	5,034.57	18.07	159.01	-86.93	1,321.62	498.19	1,323.55	1,146.47	177.07	7.475	
5,200.00	5,167.41	5,133.41	5,133.41	18.44	162.13	-87.58	1,321.62	498.19	1,322.81	1,142.25	180.56	7.326	
5,277.78	5,244.29	5,210.00	5,203.42	18.72	164.55	-88.04	1,321.62	498.19	1,322.38	1,139.11	183.26	7.216 CC, ES	
5,300.00	5,266.25	5,210.00	5,203.42	18.81	164.55	-88.04	1,321.62	498.19	1,322.56	1,139.26	183.31	7.215 SF	
5,400.00	5,365.09	5,210.00	5,203.42	19.17	164.55	-88.04	1,321.62	498.19	1,328.01	1,145.13	182.89	7.261	
5,500.00	5,463.93	5,210.00	5,203.42	19.54	164.55	-88.04	1,321.62	498.19	1,340.92	1,159.41	181.51	7.388	
5,600.00	5,562.77	5,210.00	5,203.42	19.91	164.55	-88.04	1,321.62	498.19	1,361.07	1,181.82	179.24	7.593	
5,700.00	5,661.61	5,210.00	5,203.42	20.28	164.55	-88.04	1,321.62	498.19	1,388.15	1,211.93	176.21	7.878	
5,800.00	5,760.45	5,210.00	5,203.42	20.65	164.55	-88.04	1,321.62	498.19	1,421.76	1,249.20	172.56	8.239	
5,900.00	5,859.30	5,210.00	5,203.42	21.02	164.55	-88.04	1,321.62	498.19	1,461.45	1,293.04	168.41	8.678	
6,000.00	5,958.14	5,210.00	5,203.42	21.38	164.55	-88.04	1,321.62	498.19	1,506.75	1,342.82	163.93	9.191	
6,100.00	6,056.98	5,210.00	5,203.42	21.75	164.55	-88.04	1,321.62	498.19	1,557.15	1,397.92	159.23	9.779	
6,200.00	6,155.82	5,210.00	5,203.42	22.12	164.55	-88.04	1,321.62	498.19	1,612.19	1,457.76	154.44	10.439	
6,300.00	6,254.66	5,210.00	5,203.42	22.49	164.55	-88.04	1,321.62	498.19	1,671.41	1,521.78	149.63	11.170	
6,400.00	6,353.50	5,210.00	5,203.42	22.86	164.55	-88.04	1,321.62	498.19	1,734.38	1,589.49	144.88	11.971	
6,500.00	6,452.34	5,210.00	5,203.42	23.23	164.55	-88.04	1,321.62	498.19	1,800.69	1,660.44	140.26	12.839	
6,600.00	6,551.18	5,210.00	5,203.42	23.60	164.55	-88.04	1,321.62	498.19	1,870.01	1,734.23	135.79	13.772	

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

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design A06_Offset Wild Salsa - W15 FIELDS #001 08119 - F #001 - Depth Only												Offset Site Error:	0.00 usft
Survey Program: 5210-INC-ONLY												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	
6,700.00	6,650.02	5,210.00	5,203.42	23.97	164.55	-88.04	1,321.62	498.19	1,942.01	1,810.51	131.50	14.768	
6,800.00	6,748.86	5,210.00	5,203.42	24.34	164.55	-88.04	1,321.62	498.19	2,016.39	1,888.98	127.41	15.826	
6,900.00	6,847.71	5,210.00	5,203.42	24.71	164.55	-88.04	1,321.62	498.19	2,092.91	1,969.38	123.53	16.943	
7,000.00	6,946.55	5,210.00	5,203.42	25.08	164.55	-88.04	1,321.62	498.19	2,171.34	2,051.48	119.86	18.116	
7,100.00	7,045.39	5,210.00	5,203.42	25.45	164.55	-88.04	1,321.62	498.19	2,251.48	2,135.09	116.39	19.344	
7,200.00	7,144.23	5,210.00	5,203.42	25.82	164.55	-88.04	1,321.62	498.19	2,333.15	2,220.02	113.13	20.623	
7,300.00	7,243.07	5,210.00	5,203.42	26.19	164.55	-88.04	1,321.62	498.19	2,416.21	2,306.14	110.07	21.952	
7,400.00	7,341.91	5,210.00	5,203.42	26.56	164.55	-88.04	1,321.62	498.19	2,500.50	2,393.31	107.19	23.327	
7,500.00	7,440.75	5,210.00	5,203.42	26.93	164.55	-88.04	1,321.62	498.19	2,585.91	2,481.42	104.50	24.747	

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 200-INC-ONLY													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		
4,400.00	4,376.68	4,349.99	4,349.68	15.51	82.10	-77.92	2,316.06	821.68	2,369.71	2,272.11	97.61	24.278		
4,500.00	4,475.52	4,453.08	4,452.75	15.87	85.25	-78.30	2,317.16	821.68	2,367.62	2,266.50	101.12	23.415		
4,600.00	4,574.36	4,573.40	4,573.05	16.24	88.92	-78.73	2,316.38	821.68	2,363.93	2,258.78	105.15	22.482		
4,700.00	4,673.20	4,646.94	4,646.20	16.60	91.66	-78.99	2,316.06	821.68	2,360.50	2,252.24	108.26	21.804		
4,800.00	4,772.04	4,746.05	4,745.04	16.97	95.87	-79.35	2,316.06	821.68	2,357.61	2,244.77	112.84	20.893		
4,900.00	4,870.89	4,845.04	4,843.89	17.34	100.26	-79.71	2,316.06	821.68	2,354.82	2,237.23	117.59	20.025		
5,000.00	4,969.73	4,944.19	4,942.73	17.70	104.50	-80.07	2,316.06	821.68	2,352.12	2,229.92	122.21	19.247		
5,100.00	5,068.57	5,043.03	5,041.57	18.07	108.73	-80.43	2,316.06	821.68	2,349.52	2,222.72	126.80	18.529		
5,181.19	5,148.82	5,065.00	5,063.00	18.37	109.67	-80.50	2,316.06	821.68	2,348.22	2,220.21	128.01	18.344 CC, ES		
5,200.00	5,167.41	5,065.00	5,063.00	18.44	109.67	-80.50	2,316.06	821.68	2,348.29	2,220.24	128.05	18.339 SF		
5,300.00	5,266.25	5,065.00	5,063.00	18.81	109.67	-80.50	2,316.06	821.68	2,351.22	2,223.07	128.15	18.348		
5,400.00	5,365.09	5,065.00	5,063.00	19.17	109.67	-80.50	2,316.06	821.68	2,358.39	2,230.36	128.03	18.421		
5,500.00	5,463.93	5,065.00	5,063.00	19.54	109.67	-80.50	2,316.06	821.68	2,369.76	2,242.06	127.70	18.558		
5,600.00	5,562.77	5,065.00	5,063.00	19.91	109.67	-80.50	2,316.06	821.68	2,385.27	2,258.11	127.17	18.757		
5,700.00	5,661.61	5,065.00	5,063.00	20.28	109.67	-80.50	2,316.06	821.68	2,404.85	2,278.40	126.44	19.019		
5,800.00	5,760.45	5,065.00	5,063.00	20.65	109.67	-80.50	2,316.06	821.68	2,428.38	2,302.84	125.54	19.343		
5,900.00	5,859.30	5,065.00	5,063.00	21.02	109.67	-80.50	2,316.06	821.68	2,455.77	2,331.29	124.48	19.728		
6,000.00	5,958.14	5,065.00	5,063.00	21.38	109.67	-80.50	2,316.06	821.68	2,486.88	2,363.61	123.27	20.174		
6,100.00	6,056.98	5,065.00	5,063.00	21.75	109.67	-80.50	2,316.06	821.68	2,521.57	2,399.63	121.94	20.679		
6,200.00	6,155.82	5,065.00	5,063.00	22.12	109.67	-80.50	2,316.06	821.68	2,559.71	2,439.21	120.50	21.243		
6,300.00	6,254.66	5,065.00	5,063.00	22.49	109.67	-80.50	2,316.06	821.68	2,601.13	2,482.16	118.97	21.864		
6,400.00	6,353.50	5,065.00	5,063.00	22.86	109.67	-80.50	2,316.06	821.68	2,645.68	2,528.32	117.36	22.543		
6,500.00	6,452.34	5,065.00	5,063.00	23.23	109.67	-80.50	2,316.06	821.68	2,693.21	2,577.51	115.70	23.278		
6,600.00	6,551.18	5,065.00	5,063.00	23.60	109.67	-80.50	2,316.06	821.68	2,743.56	2,629.57	114.00	24.067		
6,700.00	6,650.02	5,065.00	5,063.00	23.97	109.67	-80.50	2,316.06	821.68	2,796.59	2,684.32	112.27	24.910		

Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Wild Salsa Fed Com 406H - Slot 406H
Project:	Lea County, NM (NAD83-NME)	TVD Reference:	KB @ 3746.00usft
Reference Site:	A05_Wild Salsa	MD Reference:	KB @ 3746.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Wild Salsa Fed Com 406H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#406H	Database:	EDM 5000.14 Single User Db
Reference Design:	ADP - Rev1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 250-INC-ONLY													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		
1,700.00	1,700.00	1,673.10	1,673.00	5.87	29.38	89.60	5.83	839.37	839.39	804.14	35.25	23.814		
1,800.00	1,800.00	1,773.14	1,773.04	6.23	31.34	89.62	5.51	839.37	839.39	801.82	37.57	22.341		
1,842.39	1,842.39	1,815.51	1,815.39	6.38	32.19	89.63	5.43	839.37	839.39	800.82	38.57	21.761		
1,900.00	1,900.00	1,873.11	1,873.00	6.59	33.36	89.63	5.43	839.37	839.39	799.44	39.95	21.012		
2,000.00	2,000.00	1,973.14	1,973.02	6.95	35.39	89.61	5.73	839.37	839.39	797.06	42.34	19.827		
2,100.00	2,099.99	2,073.13	2,072.99	7.30	37.47	-0.37	5.43	839.37	838.08	793.32	44.77	18.722		
2,200.00	2,199.91	2,173.06	2,172.91	7.64	39.63	-0.41	5.96	839.37	834.16	786.89	47.27	17.647		
2,300.00	2,299.69	2,272.91	2,272.75	7.98	41.79	-0.38	5.52	839.37	827.62	777.84	49.77	16.627		
2,400.00	2,399.27	2,372.46	2,372.27	8.33	44.09	-0.38	5.43	839.37	818.47	766.06	52.41	15.616		
2,500.00	2,498.57	2,471.82	2,471.61	8.68	46.39	-0.42	5.94	839.37	806.72	751.66	55.06	14.652		
2,582.11	2,579.86	2,553.13	2,552.86	8.96	48.30	-0.39	5.43	839.37	795.12	737.87	57.25	13.889		
2,600.00	2,597.54	2,570.81	2,570.54	9.03	48.73	-0.39	5.43	839.37	792.41	734.67	57.74	13.725		
2,700.00	2,696.38	2,669.66	2,669.38	9.38	51.12	-0.46	6.24	839.37	777.23	716.76	60.47	12.853		
2,800.00	2,795.22	2,768.61	2,768.32	9.73	53.51	-0.43	5.61	839.37	762.05	698.84	63.20	12.057		
2,900.00	2,894.07	2,867.41	2,867.07	10.09	55.99	-0.42	5.43	839.37	746.86	680.84	66.02	11.312		
3,000.00	2,992.91	2,966.34	2,965.97	10.44	58.48	-0.46	5.81	839.37	731.69	662.83	68.86	10.625		
3,100.00	3,091.75	3,065.18	3,064.75	10.80	60.99	-0.44	5.43	839.37	716.50	644.79	71.71	9.991		
3,200.00	3,190.59	3,164.07	3,163.62	11.16	63.50	-0.52	6.29	839.37	701.33	626.76	74.57	9.405		
3,300.00	3,289.43	3,262.97	3,262.43	11.52	66.02	-0.46	5.43	839.37	686.14	608.71	77.44	8.861		
3,400.00	3,388.27	3,361.85	3,361.27	11.88	68.53	-0.47	5.43	839.37	670.96	590.66	80.30	8.356		
3,500.00	3,487.11	3,460.69	3,460.11	12.24	70.90	-0.48	5.43	839.37	655.78	572.77	83.01	7.900		
3,600.00	3,585.95	3,559.54	3,558.93	12.60	73.26	-0.62	6.92	839.37	640.62	554.89	85.72	7.473		
3,700.00	3,684.79	3,658.49	3,657.87	12.96	75.63	-0.60	6.49	839.37	625.43	536.99	88.44	7.072		
3,800.00	3,783.63	3,757.33	3,756.63	13.32	77.97	-0.51	5.43	839.37	610.24	519.11	91.13	6.696		
3,900.00	3,882.48	3,856.17	3,855.48	13.68	80.07	-0.53	5.43	839.37	595.06	501.48	93.58	6.359		
4,000.00	3,981.32	3,955.03	3,954.32	14.05	82.17	-0.61	6.15	839.37	579.89	483.85	96.04	6.038		
4,100.00	4,080.16	4,053.92	4,053.21	14.41	84.28	-0.59	5.73	839.37	564.70	466.21	98.49	5.733		
4,200.00	4,179.00	4,152.75	4,152.00	14.78	86.38	-0.57	5.43	839.37	549.52	448.57	100.95	5.444		
4,300.00	4,277.84	4,251.59	4,250.84	15.14	88.49	-0.59	5.43	839.37	534.34	430.94	103.40	5.168		
4,400.00	4,376.68	4,350.44	4,349.68	15.51	90.59	-0.71	6.42	839.37	519.17	413.31	105.86	4.904		
4,500.00	4,475.52	4,449.32	4,448.56	15.87	92.69	-0.70	6.14	839.37	503.99	395.67	108.32	4.653		
4,600.00	4,574.36	4,548.21	4,547.44	16.24	94.80	-0.65	5.49	839.37	488.80	378.03	110.77	4.413		
4,700.00	4,673.20	4,647.02	4,646.20	16.60	96.82	-0.66	5.43	839.37	473.62	360.47	113.15	4.186		
4,800.00	4,772.04	4,745.86	4,745.04	16.97	98.84	-0.68	5.43	839.37	458.44	342.92	115.52	3.969		
4,900.00	4,870.89	4,844.72	4,843.89	17.34	100.86	-0.84	6.48	839.37	443.28	325.39	117.89	3.760		
5,000.00	4,969.73	4,943.60	4,942.77	17.70	102.87	-0.83	6.18	839.37	428.09	307.83	120.26	3.560		
5,100.00	5,068.57	5,042.49	5,041.65	18.07	104.89	-0.77	5.52	839.37	412.90	290.27	122.63	3.367		
5,200.00	5,167.41	5,141.29	5,140.41	18.44	106.98	-0.79	5.43	839.37	397.72	272.65	125.08	3.180		
5,300.00	5,266.25	5,240.13	5,239.25	18.81	109.09	-0.82	5.43	839.37	382.54	255.01	127.54	3.000		
5,367.79	5,333.26	5,250.00	5,249.09	19.06	109.30	-0.82	5.43	839.37	376.62	249.85	126.77	2.971 CC, ES, SF		
5,400.00	5,365.09	5,250.00	5,249.09	19.17	109.30	-0.82	5.43	839.37	377.99	253.01	124.98	3.024		
5,500.00	5,463.93	5,250.00	5,249.09	19.54	109.30	-0.82	5.43	839.37	399.15	284.44	114.71	3.480		
5,600.00	5,562.77	5,250.00	5,249.09	19.91	109.30	-0.82	5.43	839.37	442.45	341.86	100.59	4.398		
5,700.00	5,661.61	5,250.00	5,249.09	20.28	109.30	-0.82	5.43	839.37	502.20	415.74	86.46	5.808		
5,800.00	5,760.45	5,250.00	5,249.09	20.65	109.30	-0.82	5.43	839.37	573.27	499.07	74.20	7.726		
5,900.00	5,859.30	5,250.00	5,249.09	21.02	109.30	-0.82	5.43	839.37	651.98	587.77	64.21	10.154		
6,000.00	5,958.14	5,250.00	5,249.09	21.38	109.30	-0.82	5.43	839.37	735.88	679.60	56.28	13.075		
6,100.00	6,056.98	5,250.00	5,249.09	21.75	109.30	-0.82	5.43	839.37	823.39	773.35	50.03	16.458		
6,200.00	6,155.82	5,250.00	5,249.09	22.12	109.30	-0.82	5.43	839.37	913.46	868.34	45.11	20.248		
6,300.00	6,254.66	5,250.00	5,249.09	22.49	109.30	-0.82	5.43	839.37	1,005.41	964.16	41.24	24.377		

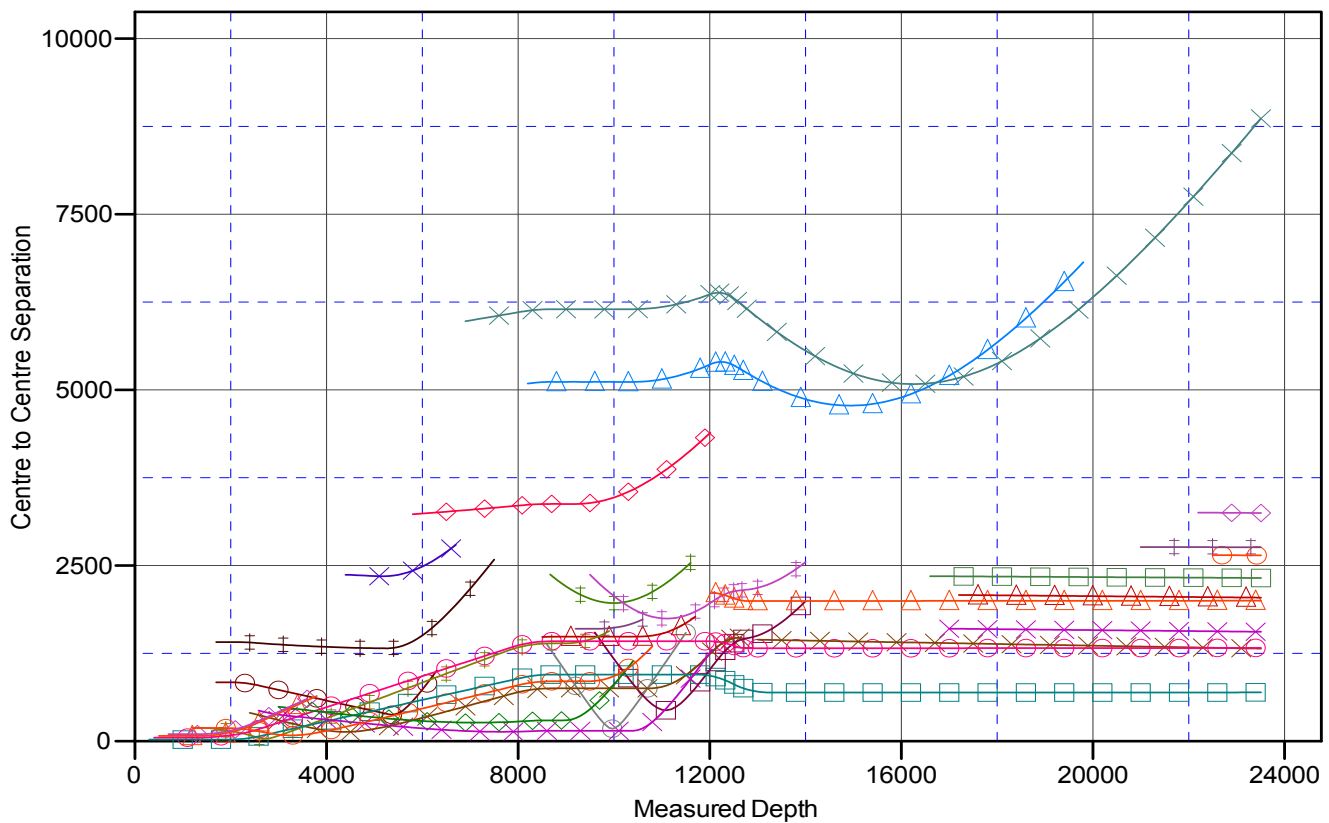
Company: Titus Oil & Gas Production, LLC
Project: Lea County, NM (NAD83-NME)
Reference Site: A05_Wild Salsa
Site Error: 0.00 usft
Reference Well: Wild Salsa Fed Com 406H
Well Error: 0.00 usft
Reference Wellbore: #406H
Reference Design: ADP - Rev1

Local Co-ordinate Reference: Well Wild Salsa Fed Com 406H - Slot 406H
TVD Reference: KB @ 3746.00usft
MD Reference: KB @ 3746.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.14 Single User Db
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 3746.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.3333334

Coordinates are relative to: Wild Salsa Fed Com 406H - Slot 406H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.38°

Ladder Plot



LEGEND

W01 DIAMONDTAIL 24 FEDERAL #1 33344, D#1, Inc Only V0	W04 TRISTE DRAW 25 FEDERAL #002 41149, T #002, MWD V0	Wild Salsa Fed Com 96H, #096H, ADP - Rev1 V0
W06 TRISTE DRAW 25 FEDERAL #007H, T #007H, MWD V0	W03 TRISTE DRAW 25 FEDERAL #001H 40877, T #001H, MWD V0	Wild Salsa Fed Com 216H, #216H, ADP - Rev1 V0
W02 DIAMONDTAIL 24 FEDERAL A #001 3351, D.A #001, DepthOnly V0	Wild Salsa Fed Com 224H, #224H, ADP - Rev1 V0	Wild Salsa Fed Com 95H, #095H, ADP - Rev1 V0
W15 FIELDS #001 08 119, F #001, Depth Only V0	Wild Salsa Fed Com 214H, #214H, ADP - Rev1 V0	Wild Salsa Fed Com 323H, #323H, ADP - Rev1 V0
W05 TRISTE DRAW 25 FEDERAL #005H 42105, T #005H, MWD V0	Wild Salsa Fed Com 223H, #223H, ADP - Rev1 V0	Wild Salsa Fed Com 93H, #93H, ADP - Rev1 V0
W18 FIELDS #4, F #4, Inc Only V0	Wild Salsa Fed Com 94H, #94H, ADP - Rev1 V0	Wild Salsa Fed Com 113H, #113H, ADP - Rev1 V0
W14 RED DEER 24 FEDERAL #001 33955, Red #001, Inc Only V0	Wild Salsa Fed Com 324H, #324H, ADP - Rev1 V0	
W16 PRE-ONGARD WELL #001 20153, Pre #001, Inc Only V0	Wild Salsa Fed Com 404H, #404H, ADP - Rev1 V0	

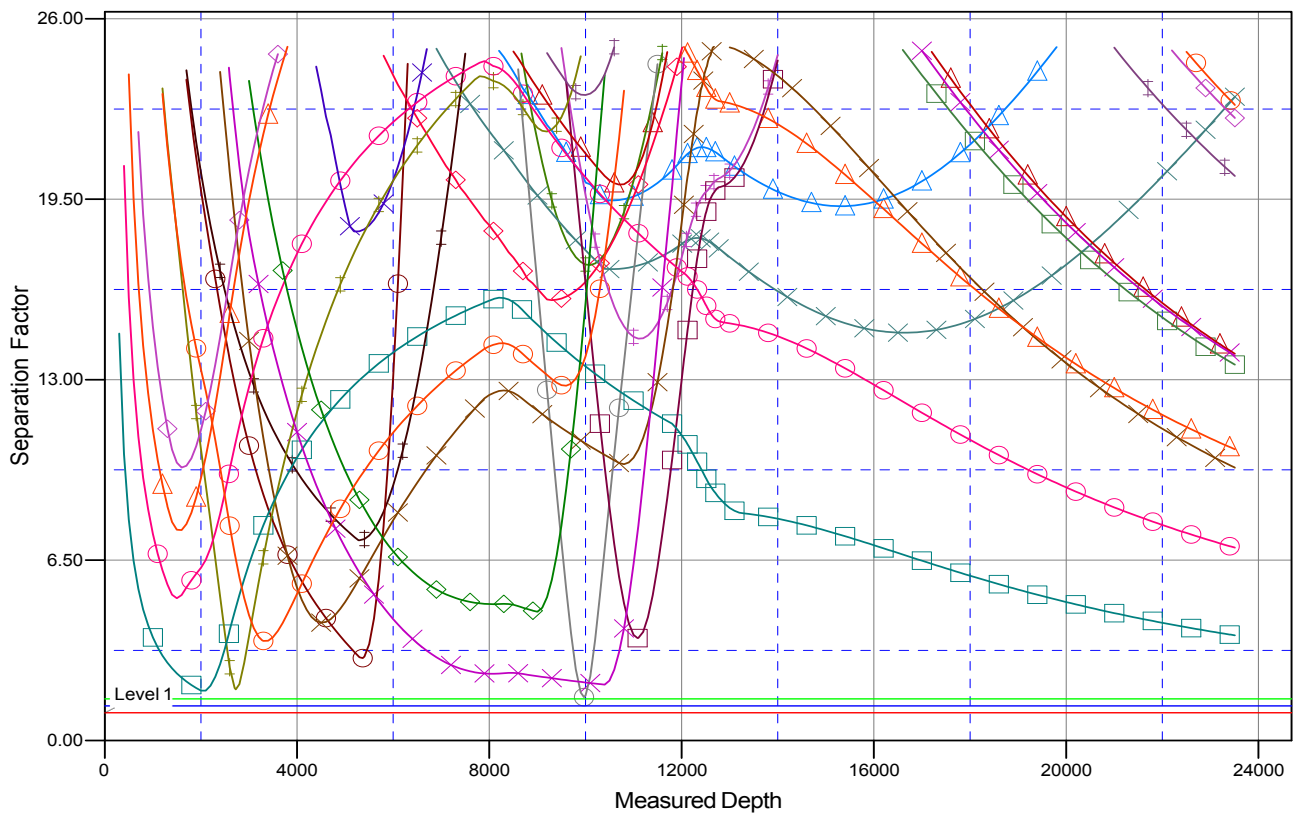
Company: Titus Oil & Gas Production, LLC
Project: Lea County, NM (NAD83-NME)
Reference Site: A05_Wild Salsa
Site Error: 0.00 usft
Reference Well: Wild Salsa Fed Com 406H
Well Error: 0.00 usft
Reference Wellbore: #406H
Reference Design: ADP - Rev1

Local Co-ordinate Reference: Well Wild Salsa Fed Com 406H - Slot 406H
TVD Reference: KB @ 3746.00usft
MD Reference: KB @ 3746.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.14 Single User Db
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 3746.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.33333334

Coordinates are relative to: Wild Salsa Fed Com 406H - Slot 406H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.38°

Separation Factor Plot



LEGEND

W01 DIAMONDTAIL 24 FEDERAL #1 33344, D #1, Inc Only V0
 W06 TRISTE DRAW 25 FEDERAL #007H, T #007H, MWD V0
 W02 DIAMONDTAIL 24 FEDERAL A #001 3351, D A #001, DepthOnly V0
 W15 FIELDS #001 08 119, F #001, DepthOnly V0
 W05 TRISTE DRAW 25 FEDERAL #005H 42105, T #005H, MWD V0
 W18 FIELDS #4, F #4, Inc Only V0
 W14 RED DEER 24 FEDERAL #001 33955, Red #001, Inc Only V0
 W16 PRE-ONGARD WELL #001 20153, Pre #001, Inc Only V0
 W04 TRISTE DRAW 25 FEDERAL #002 41149, T #002, MWD V0
 W03 TRISTE DRAW 25 FEDERAL #001H 40877, T #001H, MWD V0
 Wild Salsa Fed Com 224H, #22 4H, ADP - Rev1 V0
 Wild Salsa Fed Com 214H, #21 4H, ADP - Rev1 V0
 Wild Salsa Fed Com 223H, #22 3H, ADP - Rev1 V0
 Wild Salsa Fed Com 94H, #09 4H, ADP - Rev1 V0
 Wild Salsa Fed Com 324H, #32 4H, ADP - Rev1 V0
 Wild Salsa Fed Com 96H, #09 6H, ADP - Rev1 V0
 Wild Salsa Fed Com 216H, #21 6H, ADP - Rev1 V0
 Wild Salsa Fed Com 95H, #09 5H, ADP - Rev1 V0
 Wild Salsa Fed Com 323H, #32 3H, ADP - Rev1 V0
 Wild Salsa Fed Com 93H, #09 3H, ADP - Rev1 V0
 Wild Salsa Fed Com 113H, #11 3H, ADP - Rev1 V0

Ryan DeLong

From: Tim Smith
Sent: Wednesday, October 7, 2020 9:28 AM
To: Jimenez, Yolanda L; Walls, Christopher
Cc: Ryan DeLong
Subject: RE: [EXTERNAL] Re: [EXTERNAL] RE: Titus - Wild Salsa - Variance Ask before sending Sundry
Attachments: Wild Salsa Fed Com 93H - Sundry - 10.6.2020.pdf; Wild Salsa Fed Com 323H - Sundry - 10.6.2020.pdf; Wild Salsa Fed Com 324H - Sundry - 10.6.2020.pdf; Wild Salsa Fed Com 404H - Sundry - 10.6.2020.pdf; Wild Salsa Fed Com 406H - Sundry - 10.6.2020.pdf

Yolanda / Chris,

Attached are the sundries for reference that we will be sending in for the first pad of the Wild Salsa project. Ryan will start these into the AFMSS process this week unless there is a red flag we need to address. Please advise and thank y'all for your time.

- The Leonard & BSS are down the middle just well plans matching the plats and well name changes. The multi-bowl wellhead box was checked with the schematic attached.
- The 404H & 406H are the Wolfcamps. They also have well plan, multi-bowl well head changes. The bigger change was to a 2-stage intermediate cement job with the 5.5"x5" XO being 200' into the Intermediate shoe as discussed.
- Across all the Wild Salsa wells I noticed a COA that I would like reconsidered when the sundries go through. The Wild Salsa pad is out of potash & cave/karst so the WOC time on the intermediate cement jobs should just include tail cement. The WOC time specifies the lead cement due to potash & cave/karst across the entire project.

DRAINAGE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Titus Oil and Gas Production LLC
LEASE NO.:	NMLC0063228
WELL NAME & NO.:	Wild Salsa 24-13 Federal 323H
SURFACE HOLE FOOTAGE:	653'N & 1236'E
BOTTOM HOLE FOOTAGE:	0'N & 1870'E
LOCATION:	Section 25, T.23 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☒ Conventional	☐ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☐ Unit

2. The minimum required fill of cement behind the **9-5/8 inch** intermediate casing and shall be set at approximately **5,040 feet** is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

2. The minimum required fill of cement behind the **7-5/8 inch** intermediate casing and shall be set at approximately **11,688 feet** is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

thanks

Tim Smith

Vice President - Operations

Titus Oil & Gas, LLC
420 Throckmorton St., Suite 1150
Fort Worth, TX 76102
Office: (817) 261-3509
Cell: (432) 553-3931
Email: tsmith@titusoil.com

From: Jimenez, Yolanda L <yjimenez@blm.gov>

Sent: Tuesday, October 6, 2020 1:41 PM

To: Tim Smith <tsmith@titusoil.com>; Walls, Christopher <cwalls@blm.gov>

Subject: [EXTERNAL] Re: [EXTERNAL] RE: Titus - Wild Salsa - Variance Ask before sending Sundry

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello, Mr. Tim. I left you a voicemail message. Please wait before submitting your sundry. My colleague is looking at this one for me. Thanks.

Regards,

Yolanda Jordan Jimenez
Petroleum Engineer

620 E. Greene Street
Carlsbad, NM 88220
(575) 234-5916 (Office)
(575) 234-5927 (Facsimile)
(575) 361-4586 (Cellular)

From: Tim Smith <tsmith@titusoil.com>

Sent: Monday, October 5, 2020 3:43 PM

To: Walls, Christopher <cwalls@blm.gov>; Jimenez, Yolanda L <yjimenez@blm.gov>

Cc: Ryan D DeLong <rdelong@titusoil.com>

Subject: [EXTERNAL] RE: Titus - Wild Salsa - Variance Ask before sending Sundry

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Yolanda / Chris,

Just to clarify. The production string as permitted is the 5.5" CDC HTQ (6.3" OD coupling) x 5" CDC HTQ (5.775" OD Coupling). So the cross over point to TD will be greater than the .844" clearance for pipe & coupling. Pipe body is above the .844" clearance from 0' – TD.

The ask is for an extra 500' – 700' MD of variance on the coupling OD clearance.

thanks

Tim Smith

Vice President - Operations

Titus Oil & Gas, LLC
420 Throckmorton St., Suite 1150
Fort Worth, TX 76102
Office: (817) 261-3509
Cell: (432) 553-3931
Email: tsmith@titusoil.com

From: Tim Smith

Sent: Monday, October 5, 2020 4:35 PM

To: 'cwalls@blm.gov' <cwalls@blm.gov>; 'yjimenez@blm.gov' <yjimenez@blm.gov>

Cc: Ryan DeLong <rdelong@titusoil.com>

Subject: Titus - Wild Salsa - Variance Ask before sending Sundry

Yolanda / Chris,

We are about to send in a sundry for the Wild Salsa pad and we are having some concerns with artificial lift with eh 5.5" x 5" XO being as high as originally permitted. I have heard there has been some variances granted on the Coupling OD" in slim hole designs in some circumstances.

This is one of those times I would like to run it by the engineering team before sending in to see if this ask is acceptable.

Please see attached WBD for reference. We would like a variance on the 0.844" clearance on the 5.5" Coupling to KOP if at all possible. If the OH is a no-go then we would be highly appreciative of the extra 500' TVD to get it down to the shoe.

Please advise and I will send sundries to match.

Thanks,

Tim Smith

Vice President - Operations

Titus Oil & Gas, LLC
420 Throckmorton St., Suite 1150
Fort Worth, TX 76102
Office: (817) 261-3509
Cell: (432) 553-3931
Email: tsmith@titusoil.com