

Form 3160-5  
(June 2015)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD - HOBBS  
12/02/2020  
RECEIVED

FORM 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 FED COM 324H
9. API Well No. 30-025-47638-00-X1
10. 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 <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other
2. Name of Operator TITUS OIL AND GAS PRODUCTION IE-Mail: rdelong@titusoil.com Contact: RYAN DELONG
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 1186FEL 32.281204 N Lat, 103.623619 W Lon

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Change to Original APD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 recomplete 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 recompletion 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:

BHL change from 10' FNL & 330' FEL to 10' FNL & 990' FEL, Sec 13, T23S R32E (see attached C-102/Plat)

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

Exception to WOC COA's (see attached email)

Change to 5M BOP for intermediate (see attached drilling plan)

Attachments:

14. I hereby certify that the foregoing is true and correct.	
<b>Electronic Submission #537224 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 11/16/2020 (21DMH0018SE)</b>	
Name (Printed/Typed) RYAN DELONG	Title REGULATORY MANAGER
Signature (Electronic Submission)	Date 11/13/2020

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>YOLANDA JIMENEZ</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>11/19/2020</u>
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 <u>Hobbs</u>

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 \*\***

**Additional data for EC transaction #537224 that would not fit on the form**

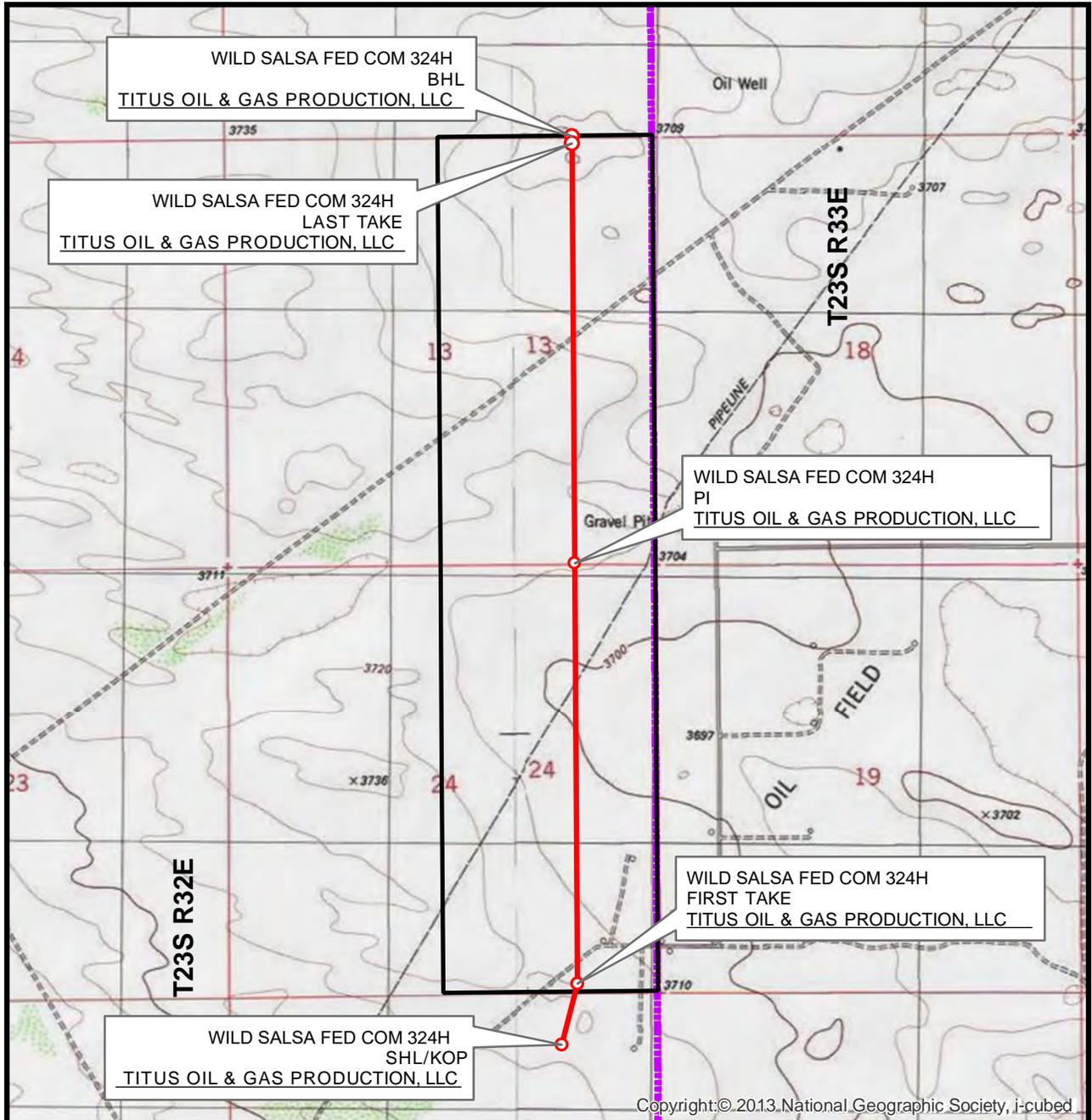
**32. Additional remarks, continued**

Updated C-102/Survey Plat  
Updated Drilling Plan  
Multi-Bowl Wellhead Schematic  
Updated Directional Plan  
Updated Directional AC Report  
Email from Tim Smith to Yolanda Jimenez

**Revisions to Operator-Submitted EC Data for Sundry Notice #537224**

	<b>Operator Submitted</b>	<b>BLM Revised (AFMSS)</b>
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 Cell: 405.664.5188 Ph: 817.852.6370
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	DIAMONDTAIL; BONE SPRING	DIAMONDTAIL
Well/Facility:	WILD SALSA 24-13 FED 324H Sec 25 T23S R32E Mer NMP 653FNL 1186FEL 32.281204 N Lat, 103.623616 W Lon	WILD SALSA FED COM 324H Sec 25 T23S R32E Tract A 653FNL 1186FEL 32.281204 N Lat, 103.623619 W Lon

# LOCATION VERIFICATION MAP



SEC. 25 TWP. 23-S RGE. 32-E  
 SURVEY: N.M.P.M.  
 COUNTY: LEA  
 OPERATOR: TITUS OIL & GAS PRODUCTION, LLC  
 DESCRIPTION: 653' FNL & 1186' FEL  
 ELEVATION: 3721'  
 LEASE: WILD SALSA FED COM  
 U.S.G.S. TOPOGRAPHIC MAP: TIP TOP WELLS, NM.

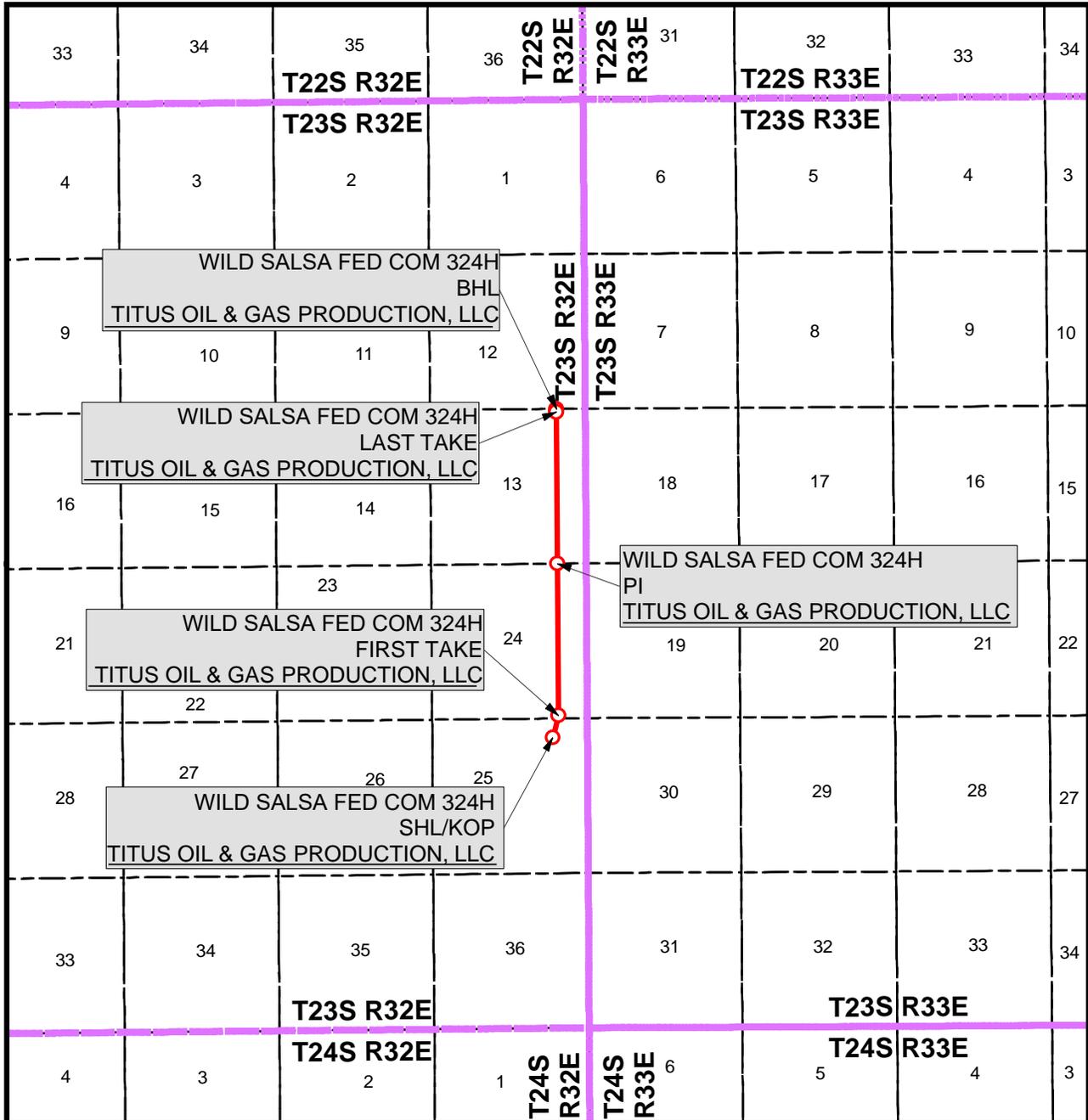
1" = 2,000'  
 CONTOUR INTERVAL = 10'



SHEET 2 OF 3

PREPARED BY:  
 R-SQUARED GLOBAL, LLC  
 1309 LOUISVILLE AVENUE, MONROE, LA 71201  
 318-323-6900 OFFICE  
 JOB No. R4009\_001\_D

# VICINITY MAP



SEC. 25 TWP. 23-S RGE. 32-E  
 SURVEY: N.M.P.M.  
 COUNTY: LEA  
 OPERATOR: TITUS OIL & GAS PRODUCTION, LLC  
 DESCRIPTION: 653' FNL & 1186' FEL  
 ELEVATION: 3721'  
 LEASE: WILD SALSA FED COM  
 U.S.G.S. TOPOGRAPHIC MAP: TIP TOP WELLS, NM.

1" = 1 MILE



SHEET 3 OF 3

PREPARED BY:  
 R-SQUARED GLOBAL, LLC  
 1309 LOUISVILLE AVENUE, MONROE, LA 71201  
 318-323-6900 OFFICE  
 JOB No. R4009\_001\_D

## Titus Oil & Gas Production, LLC - Wild Salsa Fed Com 324H

### 1. Geologic Formations

TVD of target	12,162' EOL	Pilot hole depth	NA
MD at TD:	23,237'	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	
Leonard	9065	Oil/Gas	
1st Bone Spring Sand	10002	Oil/Gas	
2nd Bone Spring Sand	10622	Oil/Gas	
3rd Bone Spring Sand	11900	Target Oil/Gas	
Wolfcamp	12208	Not Penetrated	
X	X	Not Penetrated	
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 Tension
	From	To							
17.5"	0	1340	13.375"	54.5	J55	STC	1.84	1.26	7.04
12.25"	0	5040	9.625"	40	J55	LTC	0.96	0.84	2.58
8.75"	0	23,237	5.5"	17	P110	LTC	1.26	2.25	2.15
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.  
 Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.  
 All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

**Titus Oil & Gas Production, LLC - Wild Salsa Fed Com 324H**

	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
<b>Is well located within Capitan Reef?</b>	
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary?	
<b>Is well located in SOPA but not in R-111-P?</b>	
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	N
<b>Is well located in R-111-P and SOPA?</b>	
If yes, are the first three strings cemented to surface?	N
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
<b>Is well located in high Cave/Karst?</b>	
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
<b>Is well located in critical Cave/Karst?</b>	
If yes, are there three strings cemented to surface?	N

## Titus Oil &amp; Gas Production, LLC - Wild Salsa Fed Com 324H

## 3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H <sub>2</sub> O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	610	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl <sub>2</sub>
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl <sub>2</sub>
Inter.	950	12.7	2.0	9.6	16	Lead: 35:65:6 C Blend
	250	14.8	1.34	6.34	8	Tail: Class C
5.5 Prod	1000	11.9	2.5	19	72	Lead: 50:50:10 H Blend
	2900	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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 <sup>st</sup> Intermediate	0'	50%
Production	4,540'	25% OH in Lateral (KOP to EOL) – 40% OH in Vertical

**Titus Oil & Gas Production, LLC - Wild Salsa Fed Com 324H**

**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:
12-1/4"	13-5/8"	2M	Annular	x	2000 psi
			Blind Ram		2M
			Pipe Ram		
			Double Ram		
			Other*		
8-3/4"	13-5/8"	5M	Annular	x	50% testing pressure
			Blind Ram	x	5M
			Pipe Ram	x	
			Double Ram		
			Other*		

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. See attached schematics.

X	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.

**Titus Oil & Gas Production, LLC - Wild Salsa Fed Com 324H**

**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	Saturated Brine	10 - 10.2	28-34	N/C
9-5/8" Int shoe	Lateral TD	Cut Brine	8.6 - 9.4	28-34	N/C

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
---	-----------------------------

**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	

**Titus Oil & Gas Production, LLC - Wild Salsa Fed Com 324H**

**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	5945 psi at 12162' TVD
Abnormal Temperature	NO 175 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.

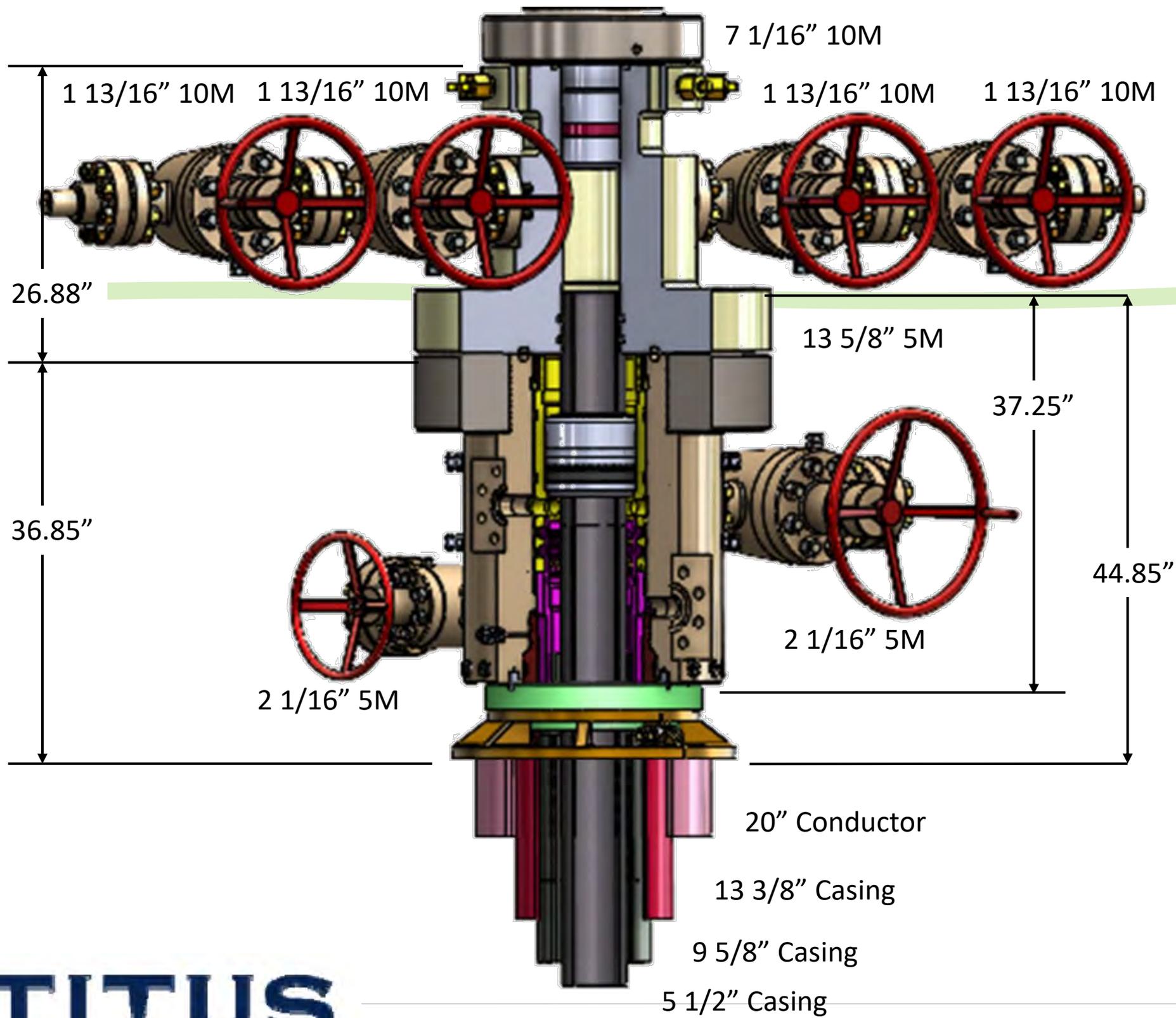
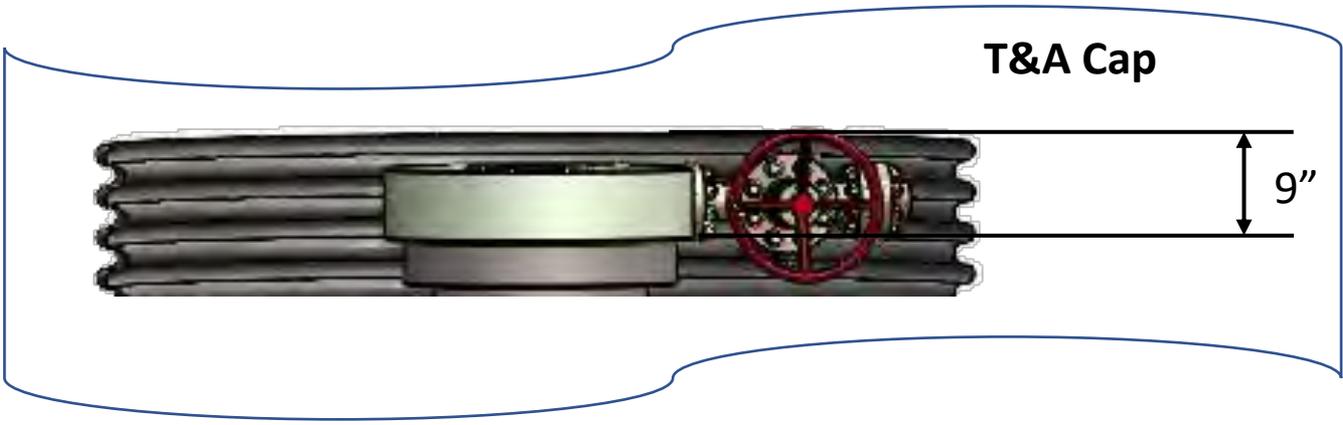
Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

**8. Other Facets of Operation**

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

x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan
x	Multibowl Wellhead Schematic

# 13" 5K IL – Multi bowl System





Titus Oil & Gas Production, LLC  
 Project: Lea County, NM (NAD83-NME)  
 Site: A05\_Wild Salsa  
 Well: Wild Salsa Fed Com 324H  
 Wellbore: #324H  
 Plan: ADP - Rev1

WELL DETAILS: Wild Salsa Fed Com 324H

Northing	Easting	Latitude	Longitude	Slot
466760.52	760669.76	32.28120443	-103.62361588	324H



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

Magnetic Field  
 Strength: 47604.2snT  
 Dip Angle: 59.97°  
 Date: 8/25/2020  
 Model: IGRF2020

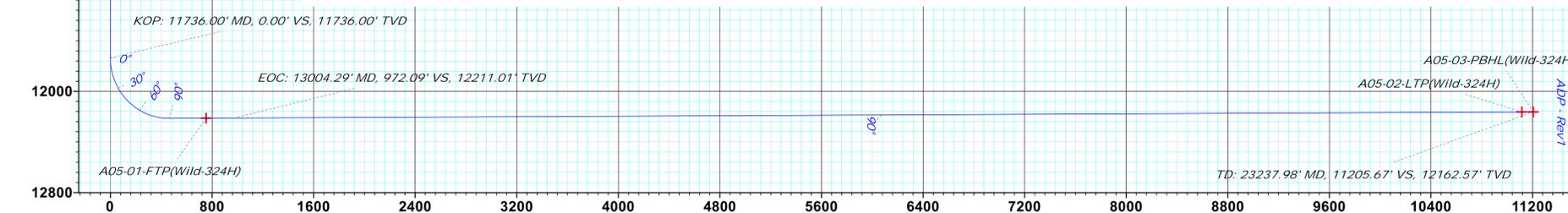
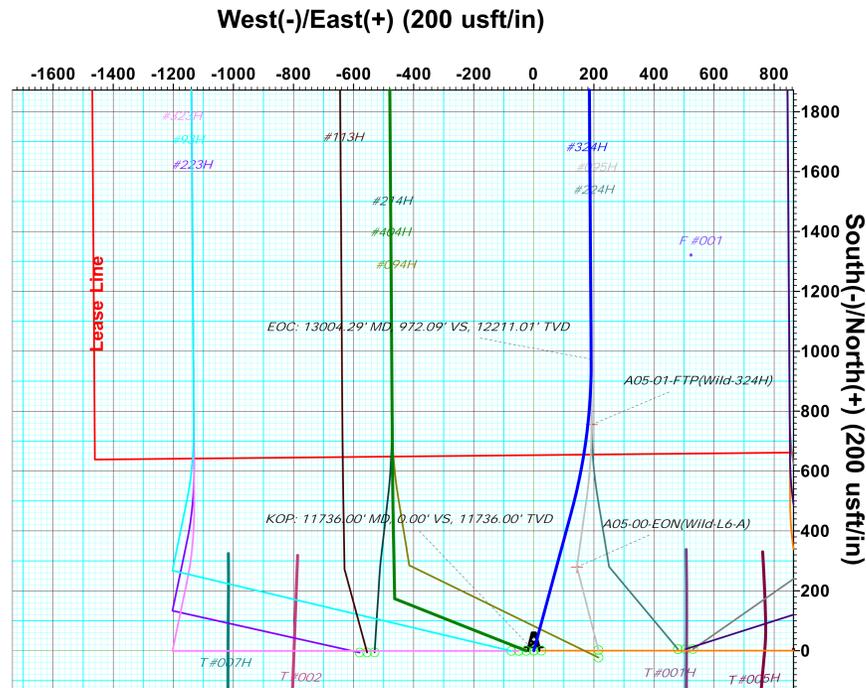
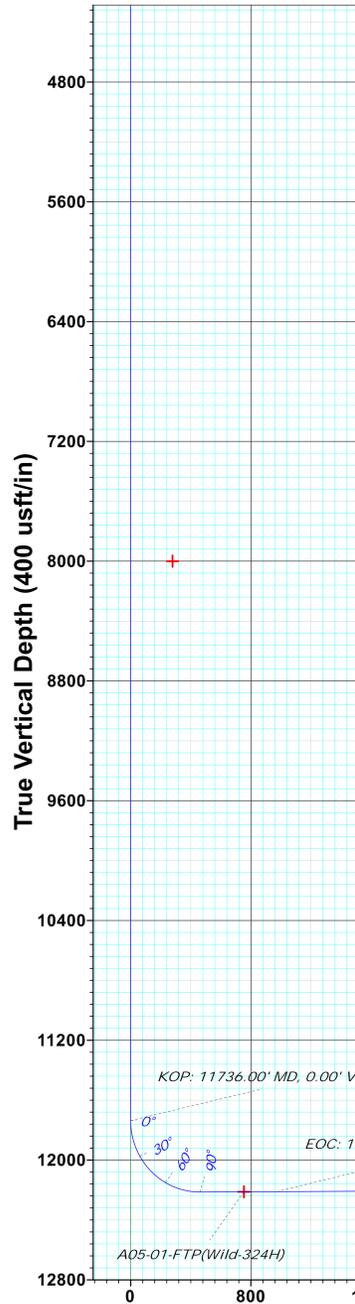
PROJECT DETAILS: Lea County, NM (NAD83-NME)  
 Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: New Mexico Eastern Zone  
 System Datum: Mean Sea Level  
 Local North: Grid  
 Grid Convergence: 0.38° West  
 KB Elevation: KB @ 3746.00usft  
 Elevation: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

Section Details

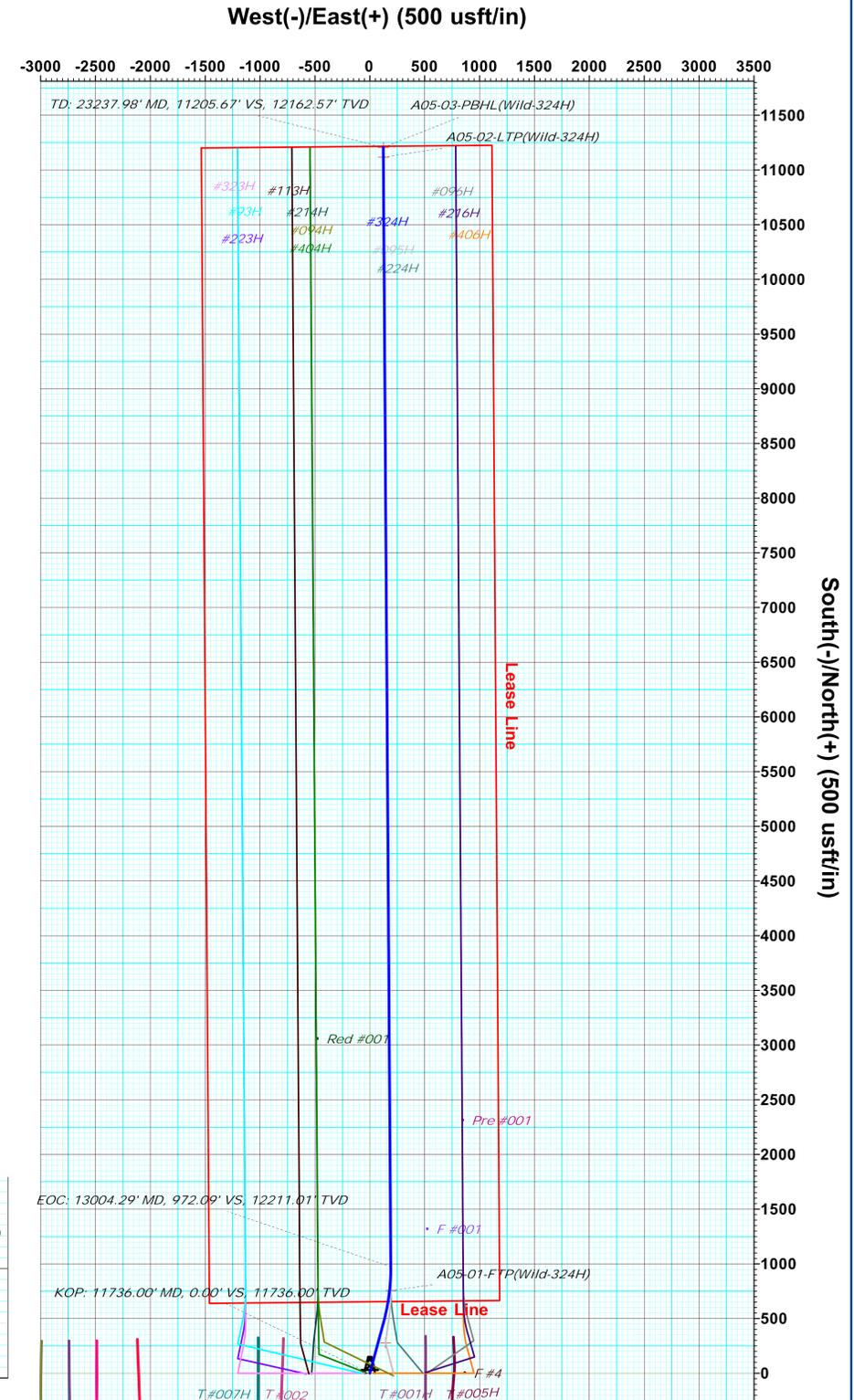
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1350.00	0.00	0.00	1350.00	0.00	0.00	0.00	0.00	0.00
3	11736.00	0.00	0.00	11736.00	0.00	0.00	0.00	0.00	0.00
4	12488.25	90.27	15.10	12213.46	463.15	124.97	12.00	15.10	462.31
5	13004.29	90.27	359.62	12211.01	973.38	190.87	3.00	-89.96	972.09
6	23147.99	90.27	359.62	12163.00	11116.74	123.34	0.00	0.00	11115.68
7	23237.98	90.27	359.62	12162.57	11206.73	122.74	0.00	0.00	11205.67

DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting
A05-00-EON(Wild-L6-A)	279.50	143.43	467040.02	760813.19
A05-03-PBHL(Wild-324H)	11206.73	122.72	477967.25	760792.48
A05-02-LTP(Wild-324H)	11116.74	123.34	477877.26	760793.10
A05-01-FTP(Wild-324H)	755.01	192.65	467515.53	760862.41



Vertical Section at 359.62° (400 usft/in)





## **Titus Oil & Gas Production, LLC**

**Lea County, NM (NAD83-NME)**

**A05\_Wild Salsa**

**Wild Salsa Fed Com 324H - Slot 324H**

**#324H**

**Plan: ADP - Rev1**

## **Standard Planning Report**

**14 September, 2020**



Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Wild Salsa Fed Com 324H - Slot 324H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	KB @ 3746.00usft
<b>Project:</b>	Lea County, NM (NAD83-NME)	<b>MD Reference:</b>	KB @ 3746.00usft
<b>Site:</b>	A05_Wild Salsa	<b>North Reference:</b>	Grid
<b>Well:</b>	Wild Salsa Fed Com 324H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	#324H		
<b>Design:</b>	ADP - Rev1		

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

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

<b>Well</b>	Wild Salsa Fed Com 324H - Slot 324H					
<b>Well Position</b>	<b>+N/-S</b>	3.52 usft	<b>Northing:</b>	466,760.52 usft	<b>Latitude:</b>	32.28120443
	<b>+E/-W</b>	340.16 usft	<b>Easting:</b>	760,669.76 usft	<b>Longitude:</b>	-103.62361588
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	3,721.00 usft

<b>Wellbore</b>	#324H				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	8/25/2020	6.67	59.97	47,604.17131060

<b>Design</b>	ADP - Rev1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	359.62

<b>Plan Survey Tool Program</b>	<b>Date</b>	9/14/2020		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	23,237.98 ADP - Rev1 (#324H)	MWD+IFR1+SAG+MS	OWSG MWD + IFR1 + Sag + M

<b>Plan Sections</b>										
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	
1,350.00	0.00	0.00	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,736.00	0.00	0.00	11,736.00	0.00	0.00	0.00	0.00	0.00	0.00	
12,488.25	90.27	15.10	12,213.46	463.15	124.97	12.00	12.00	0.00	15.10	
13,004.29	90.27	359.62	12,211.01	973.38	190.87	3.00	0.00	-3.00	-89.96	
23,147.99	90.27	359.62	12,163.00	11,116.74	123.34	0.00	0.00	0.00	0.00	A05-02-LTP(Wild-324
23,237.98	90.27	359.62	12,162.57	11,206.73	122.74	0.00	0.00	0.00	0.00	A05-03-PBHL(Wild-324



Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Wild Salsa Fed Com 324H - Slot 324H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	KB @ 3746.00usft
<b>Project:</b>	Lea County, NM (NAD83-NME)	<b>MD Reference:</b>	KB @ 3746.00usft
<b>Site:</b>	A05_Wild Salsa	<b>North Reference:</b>	Grid
<b>Well:</b>	Wild Salsa Fed Com 324H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	#324H		
<b>Design:</b>	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
1,350.00	0.00	0.00	1,350.00	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	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00



Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Wild Salsa Fed Com 324H - Slot 324H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	KB @ 3746.00usft
<b>Project:</b>	Lea County, NM (NAD83-NME)	<b>MD Reference:</b>	KB @ 3746.00usft
<b>Site:</b>	A05_Wild Salsa	<b>North Reference:</b>	Grid
<b>Well:</b>	Wild Salsa Fed Com 324H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	#324H		
<b>Design:</b>	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	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>A05-00-EON(Wild-L6-A)</b>									
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00



Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Wild Salsa Fed Com 324H - Slot 324H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	KB @ 3746.00usft
<b>Project:</b>	Lea County, NM (NAD83-NME)	<b>MD Reference:</b>	KB @ 3746.00usft
<b>Site:</b>	A05_Wild Salsa	<b>North Reference:</b>	Grid
<b>Well:</b>	Wild Salsa Fed Com 324H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	#324H		
<b>Design:</b>	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)	
10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11,000.00	0.00	0.00	11,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11,100.00	0.00	0.00	11,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11,200.00	0.00	0.00	11,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11,300.00	0.00	0.00	11,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11,400.00	0.00	0.00	11,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11,500.00	0.00	0.00	11,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11,600.00	0.00	0.00	11,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11,700.00	0.00	0.00	11,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11,736.00	0.00	0.00	11,736.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>KOP: 11736.00' MD, 0.00' VS, 11736.00' TVD</b>										
11,750.00	1.68	15.10	11,750.00	0.20	0.05	0.20	12.00	12.00	0.00	0.00
11,775.00	4.68	15.10	11,774.96	1.54	0.41	1.53	12.00	12.00	0.00	0.00
11,800.00	7.68	15.10	11,799.81	4.14	1.12	4.13	12.00	12.00	0.00	0.00
11,825.00	10.68	15.10	11,824.49	7.99	2.15	7.97	12.00	12.00	0.00	0.00
11,850.00	13.68	15.10	11,848.92	13.08	3.53	13.05	12.00	12.00	0.00	0.00
11,875.00	16.68	15.10	11,873.05	19.40	5.23	19.36	12.00	12.00	0.00	0.00
11,900.00	19.68	15.10	11,896.79	26.93	7.27	26.88	12.00	12.00	0.00	0.00
11,925.00	22.68	15.10	11,920.10	35.65	9.62	35.58	12.00	12.00	0.00	0.00
11,950.00	25.68	15.10	11,942.91	45.53	12.29	45.45	12.00	12.00	0.00	0.00
11,975.00	28.68	15.10	11,965.14	56.56	15.26	56.45	12.00	12.00	0.00	0.00
12,000.00	31.68	15.10	11,986.75	68.69	18.53	68.56	12.00	12.00	0.00	0.00
12,025.00	34.68	15.10	12,007.67	81.90	22.10	81.75	12.00	12.00	0.00	0.00
12,050.00	37.68	15.10	12,027.85	96.14	25.94	95.97	12.00	12.00	0.00	0.00
12,075.00	40.68	15.10	12,047.23	111.39	30.06	111.19	12.00	12.00	0.00	0.00
12,100.00	43.68	15.10	12,065.75	127.60	34.43	127.36	12.00	12.00	0.00	0.00
12,125.00	46.68	15.10	12,083.37	144.71	39.05	144.45	12.00	12.00	0.00	0.00
12,150.00	49.68	15.10	12,100.04	162.70	43.90	162.41	12.00	12.00	0.00	0.00
12,175.00	52.68	15.10	12,115.71	181.50	48.97	181.17	12.00	12.00	0.00	0.00
12,200.00	55.68	15.10	12,130.34	201.07	54.25	200.71	12.00	12.00	0.00	0.00
12,225.00	58.68	15.10	12,143.89	221.35	59.73	220.95	12.00	12.00	0.00	0.00
12,250.00	61.68	15.10	12,156.32	242.29	65.38	241.85	12.00	12.00	0.00	0.00
12,275.00	64.68	15.10	12,167.60	263.83	71.19	263.35	12.00	12.00	0.00	0.00
12,300.00	67.68	15.10	12,177.69	285.91	77.14	285.39	12.00	12.00	0.00	0.00
12,325.00	70.68	15.10	12,186.58	308.47	83.23	307.91	12.00	12.00	0.00	0.00
12,350.00	73.68	15.10	12,194.23	331.44	89.43	330.84	12.00	12.00	0.00	0.00
12,375.00	76.68	15.10	12,200.62	354.77	95.73	354.13	12.00	12.00	0.00	0.00
12,400.00	79.68	15.10	12,205.74	378.40	102.10	377.71	12.00	12.00	0.00	0.00
12,425.00	82.68	15.10	12,209.57	402.25	108.53	401.52	12.00	12.00	0.00	0.00
12,450.00	85.68	15.10	12,212.11	426.26	115.01	425.48	12.00	12.00	0.00	0.00
12,475.00	88.68	15.10	12,213.34	450.36	121.52	449.54	12.00	12.00	0.00	0.00
12,488.25	90.27	15.10	12,213.46	463.15	124.97	462.31	12.00	12.00	0.00	0.00
12,500.00	90.27	14.75	12,213.40	474.51	127.99	473.65	3.00	0.00	-3.00	-3.00
12,600.00	90.27	11.75	12,212.93	571.83	150.91	570.82	3.00	0.00	-3.00	-3.00
12,700.00	90.27	8.75	12,212.46	670.22	168.69	669.09	3.00	0.00	-3.00	-3.00
12,787.14	90.27	6.13	12,212.04	756.62	179.98	755.41	3.00	0.00	-3.00	-3.00
<b>A05-01-FTP(Wild-324H)</b>										
12,800.00	90.27	5.75	12,211.98	769.41	181.31	768.19	3.00	0.00	-3.00	-3.00
12,900.00	90.27	2.75	12,211.50	869.13	188.71	867.86	3.00	0.00	-3.00	-3.00
13,004.29	90.27	359.62	12,211.01	973.38	190.87	972.09	3.00	0.00	-3.00	-3.00



Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Wild Salsa Fed Com 324H - Slot 324H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	KB @ 3746.00usft
<b>Project:</b>	Lea County, NM (NAD83-NME)	<b>MD Reference:</b>	KB @ 3746.00usft
<b>Site:</b>	A05_Wild Salsa	<b>North Reference:</b>	Grid
<b>Well:</b>	Wild Salsa Fed Com 324H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	#324H		
<b>Design:</b>	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)	
<b>EOC: 13004.29' MD, 972.09' VS, 12211.01' TVD</b>										
13,100.00	90.27	359.62	12,210.55	1,069.09	190.23	1,067.80	0.00	0.00	0.00	
13,200.00	90.27	359.62	12,210.08	1,169.08	189.56	1,167.80	0.00	0.00	0.00	
13,300.00	90.27	359.62	12,209.61	1,269.08	188.90	1,267.80	0.00	0.00	0.00	
13,400.00	90.27	359.62	12,209.14	1,369.08	188.23	1,367.80	0.00	0.00	0.00	
13,500.00	90.27	359.62	12,208.66	1,469.07	187.57	1,467.80	0.00	0.00	0.00	
13,600.00	90.27	359.62	12,208.19	1,569.07	186.90	1,567.80	0.00	0.00	0.00	
13,700.00	90.27	359.62	12,207.72	1,669.07	186.24	1,667.79	0.00	0.00	0.00	
13,800.00	90.27	359.62	12,207.24	1,769.06	185.57	1,767.79	0.00	0.00	0.00	
13,900.00	90.27	359.62	12,206.77	1,869.06	184.90	1,867.79	0.00	0.00	0.00	
14,000.00	90.27	359.62	12,206.30	1,969.06	184.24	1,967.79	0.00	0.00	0.00	
14,100.00	90.27	359.62	12,205.82	2,069.05	183.57	2,067.79	0.00	0.00	0.00	
14,200.00	90.27	359.62	12,205.35	2,169.05	182.91	2,167.79	0.00	0.00	0.00	
14,300.00	90.27	359.62	12,204.88	2,269.05	182.24	2,267.79	0.00	0.00	0.00	
14,400.00	90.27	359.62	12,204.40	2,369.04	181.58	2,367.79	0.00	0.00	0.00	
14,500.00	90.27	359.62	12,203.93	2,469.04	180.91	2,467.79	0.00	0.00	0.00	
14,600.00	90.27	359.62	12,203.46	2,569.04	180.24	2,567.78	0.00	0.00	0.00	
14,700.00	90.27	359.62	12,202.98	2,669.03	179.58	2,667.78	0.00	0.00	0.00	
14,800.00	90.27	359.62	12,202.51	2,769.03	178.91	2,767.78	0.00	0.00	0.00	
14,900.00	90.27	359.62	12,202.04	2,869.03	178.25	2,867.78	0.00	0.00	0.00	
15,000.00	90.27	359.62	12,201.56	2,969.02	177.58	2,967.78	0.00	0.00	0.00	
15,100.00	90.27	359.62	12,201.09	3,069.02	176.92	3,067.78	0.00	0.00	0.00	
15,200.00	90.27	359.62	12,200.62	3,169.02	176.25	3,167.78	0.00	0.00	0.00	
15,300.00	90.27	359.62	12,200.14	3,269.01	175.58	3,267.78	0.00	0.00	0.00	
15,400.00	90.27	359.62	12,199.67	3,369.01	174.92	3,367.78	0.00	0.00	0.00	
15,500.00	90.27	359.62	12,199.20	3,469.01	174.25	3,467.77	0.00	0.00	0.00	
15,600.00	90.27	359.62	12,198.72	3,569.00	173.59	3,567.77	0.00	0.00	0.00	
15,700.00	90.27	359.62	12,198.25	3,669.00	172.92	3,667.77	0.00	0.00	0.00	
15,800.00	90.27	359.62	12,197.78	3,769.00	172.26	3,767.77	0.00	0.00	0.00	
15,900.00	90.27	359.62	12,197.30	3,868.99	171.59	3,867.77	0.00	0.00	0.00	
16,000.00	90.27	359.62	12,196.83	3,968.99	170.92	3,967.77	0.00	0.00	0.00	
16,100.00	90.27	359.62	12,196.36	4,068.99	170.26	4,067.77	0.00	0.00	0.00	
16,200.00	90.27	359.62	12,195.88	4,168.98	169.59	4,167.77	0.00	0.00	0.00	
16,300.00	90.27	359.62	12,195.41	4,268.98	168.93	4,267.77	0.00	0.00	0.00	
16,400.00	90.27	359.62	12,194.94	4,368.98	168.26	4,367.76	0.00	0.00	0.00	
16,500.00	90.27	359.62	12,194.46	4,468.97	167.60	4,467.76	0.00	0.00	0.00	
16,600.00	90.27	359.62	12,193.99	4,568.97	166.93	4,567.76	0.00	0.00	0.00	
16,700.00	90.27	359.62	12,193.52	4,668.97	166.26	4,667.76	0.00	0.00	0.00	
16,800.00	90.27	359.62	12,193.04	4,768.96	165.60	4,767.76	0.00	0.00	0.00	
16,900.00	90.27	359.62	12,192.57	4,868.96	164.93	4,867.76	0.00	0.00	0.00	
17,000.00	90.27	359.62	12,192.10	4,968.96	164.27	4,967.76	0.00	0.00	0.00	
17,100.00	90.27	359.62	12,191.62	5,068.95	163.60	5,067.76	0.00	0.00	0.00	
17,200.00	90.27	359.62	12,191.15	5,168.95	162.94	5,167.76	0.00	0.00	0.00	
17,300.00	90.27	359.62	12,190.68	5,268.95	162.27	5,267.75	0.00	0.00	0.00	
17,400.00	90.27	359.62	12,190.20	5,368.94	161.60	5,367.75	0.00	0.00	0.00	
17,500.00	90.27	359.62	12,189.73	5,468.94	160.94	5,467.75	0.00	0.00	0.00	
17,600.00	90.27	359.62	12,189.26	5,568.94	160.27	5,567.75	0.00	0.00	0.00	
17,700.00	90.27	359.62	12,188.78	5,668.93	159.61	5,667.75	0.00	0.00	0.00	
17,800.00	90.27	359.62	12,188.31	5,768.93	158.94	5,767.75	0.00	0.00	0.00	
17,900.00	90.27	359.62	12,187.84	5,868.93	158.28	5,867.75	0.00	0.00	0.00	
18,000.00	90.27	359.62	12,187.36	5,968.92	157.61	5,967.75	0.00	0.00	0.00	
18,100.00	90.27	359.62	12,186.89	6,068.92	156.94	6,067.75	0.00	0.00	0.00	
18,200.00	90.27	359.62	12,186.42	6,168.92	156.28	6,167.74	0.00	0.00	0.00	



Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Wild Salsa Fed Com 324H - Slot 324H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	KB @ 3746.00usft
<b>Project:</b>	Lea County, NM (NAD83-NME)	<b>MD Reference:</b>	KB @ 3746.00usft
<b>Site:</b>	A05_Wild Salsa	<b>North Reference:</b>	Grid
<b>Well:</b>	Wild Salsa Fed Com 324H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	#324H		
<b>Design:</b>	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)	
18,300.00	90.27	359.62	12,185.94	6,268.91	155.61	6,267.74	0.00	0.00	0.00	
18,400.00	90.27	359.62	12,185.47	6,368.91	154.95	6,367.74	0.00	0.00	0.00	
18,500.00	90.27	359.62	12,185.00	6,468.91	154.28	6,467.74	0.00	0.00	0.00	
18,600.00	90.27	359.62	12,184.52	6,568.90	153.62	6,567.74	0.00	0.00	0.00	
18,700.00	90.27	359.62	12,184.05	6,668.90	152.95	6,667.74	0.00	0.00	0.00	
18,800.00	90.27	359.62	12,183.58	6,768.90	152.28	6,767.74	0.00	0.00	0.00	
18,900.00	90.27	359.62	12,183.10	6,868.89	151.62	6,867.74	0.00	0.00	0.00	
19,000.00	90.27	359.62	12,182.63	6,968.89	150.95	6,967.74	0.00	0.00	0.00	
19,100.00	90.27	359.62	12,182.16	7,068.89	150.29	7,067.73	0.00	0.00	0.00	
19,200.00	90.27	359.62	12,181.69	7,168.88	149.62	7,167.73	0.00	0.00	0.00	
19,300.00	90.27	359.62	12,181.21	7,268.88	148.96	7,267.73	0.00	0.00	0.00	
19,400.00	90.27	359.62	12,180.74	7,368.88	148.29	7,367.73	0.00	0.00	0.00	
19,500.00	90.27	359.62	12,180.27	7,468.87	147.62	7,467.73	0.00	0.00	0.00	
19,600.00	90.27	359.62	12,179.79	7,568.87	146.96	7,567.73	0.00	0.00	0.00	
19,700.00	90.27	359.62	12,179.32	7,668.87	146.29	7,667.73	0.00	0.00	0.00	
19,800.00	90.27	359.62	12,178.85	7,768.86	145.63	7,767.73	0.00	0.00	0.00	
19,900.00	90.27	359.62	12,178.37	7,868.86	144.96	7,867.73	0.00	0.00	0.00	
20,000.00	90.27	359.62	12,177.90	7,968.86	144.30	7,967.72	0.00	0.00	0.00	
20,100.00	90.27	359.62	12,177.43	8,068.85	143.63	8,067.72	0.00	0.00	0.00	
20,200.00	90.27	359.62	12,176.95	8,168.85	142.96	8,167.72	0.00	0.00	0.00	
20,300.00	90.27	359.62	12,176.48	8,268.85	142.30	8,267.72	0.00	0.00	0.00	
20,400.00	90.27	359.62	12,176.01	8,368.84	141.63	8,367.72	0.00	0.00	0.00	
20,500.00	90.27	359.62	12,175.53	8,468.84	140.97	8,467.72	0.00	0.00	0.00	
20,600.00	90.27	359.62	12,175.06	8,568.84	140.30	8,567.72	0.00	0.00	0.00	
20,700.00	90.27	359.62	12,174.59	8,668.83	139.64	8,667.72	0.00	0.00	0.00	
20,800.00	90.27	359.62	12,174.11	8,768.83	138.97	8,767.71	0.00	0.00	0.00	
20,900.00	90.27	359.62	12,173.64	8,868.83	138.30	8,867.71	0.00	0.00	0.00	
21,000.00	90.27	359.62	12,173.17	8,968.82	137.64	8,967.71	0.00	0.00	0.00	
21,100.00	90.27	359.62	12,172.69	9,068.82	136.97	9,067.71	0.00	0.00	0.00	
21,200.00	90.27	359.62	12,172.22	9,168.82	136.31	9,167.71	0.00	0.00	0.00	
21,300.00	90.27	359.62	12,171.75	9,268.81	135.64	9,267.71	0.00	0.00	0.00	
21,400.00	90.27	359.62	12,171.27	9,368.81	134.98	9,367.71	0.00	0.00	0.00	
21,500.00	90.27	359.62	12,170.80	9,468.81	134.31	9,467.71	0.00	0.00	0.00	
21,600.00	90.27	359.62	12,170.33	9,568.80	133.64	9,567.71	0.00	0.00	0.00	
21,700.00	90.27	359.62	12,169.85	9,668.80	132.98	9,667.70	0.00	0.00	0.00	
21,800.00	90.27	359.62	12,169.38	9,768.80	132.31	9,767.70	0.00	0.00	0.00	
21,900.00	90.27	359.62	12,168.91	9,868.79	131.65	9,867.70	0.00	0.00	0.00	
22,000.00	90.27	359.62	12,168.43	9,968.79	130.98	9,967.70	0.00	0.00	0.00	
22,100.00	90.27	359.62	12,167.96	10,068.79	130.32	10,067.70	0.00	0.00	0.00	
22,200.00	90.27	359.62	12,167.49	10,168.78	129.65	10,167.70	0.00	0.00	0.00	
22,300.00	90.27	359.62	12,167.01	10,268.78	128.99	10,267.70	0.00	0.00	0.00	
22,400.00	90.27	359.62	12,166.54	10,368.78	128.32	10,367.70	0.00	0.00	0.00	
22,500.00	90.27	359.62	12,166.07	10,468.77	127.65	10,467.70	0.00	0.00	0.00	
22,600.00	90.27	359.62	12,165.59	10,568.77	126.99	10,567.69	0.00	0.00	0.00	
22,700.00	90.27	359.62	12,165.12	10,668.77	126.32	10,667.69	0.00	0.00	0.00	
22,800.00	90.27	359.62	12,164.65	10,768.76	125.66	10,767.69	0.00	0.00	0.00	
22,900.00	90.27	359.62	12,164.17	10,868.76	124.99	10,867.69	0.00	0.00	0.00	
23,000.00	90.27	359.62	12,163.70	10,968.76	124.33	10,967.69	0.00	0.00	0.00	
23,100.00	90.27	359.62	12,163.23	11,068.75	123.66	11,067.69	0.00	0.00	0.00	
23,147.99	90.27	359.62	12,163.00	11,116.74	123.34	11,115.68	0.00	0.00	0.00	
<b>A05-02-LTP(Wild-324H)</b>										
23,200.00	90.27	359.62	12,162.75	11,168.75	122.99	11,167.69	0.00	0.00	0.00	
23,237.98	90.27	359.62	12,162.57	11,206.73	122.74	11,205.67	0.00	0.00	0.00	
<b>TD: 23237.98' MD, 11205.67' VS, 12162.57' TVD - A05-03-PBHL(Wild-324H)</b>										



Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Wild Salsa Fed Com 324H - Slot 324H
<b>Company:</b>	Titus Oil & Gas Production, LLC	<b>TVD Reference:</b>	KB @ 3746.00usft
<b>Project:</b>	Lea County, NM (NAD83-NME)	<b>MD Reference:</b>	KB @ 3746.00usft
<b>Site:</b>	A05_Wild Salsa	<b>North Reference:</b>	Grid
<b>Well:</b>	Wild Salsa Fed Com 324H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	#324H		
<b>Design:</b>	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)

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
A05-00-EON(Wild-L6-A) - hit/miss target - Shape - Point	0.00	0.00	8,000.00	279.50	143.43	467,040.02	760,813.19	32.28197006	-103.62314581
- plan misses target center by 314.15usft at 8000.00usft MD (8000.00 TVD, 0.00 N, 0.00 E)									
A05-03-PBHL(Wild-324H) - Point	0.00	0.00	12,162.57	11,206.73	122.72	477,967.25	760,792.48	32.31200572	-103.62297860
- plan misses target center by 0.02usft at 23237.98usft MD (12162.57 TVD, 11206.73 N, 122.74 E)									
A05-02-LTP(Wild-324H) - Point	0.00	0.00	12,163.00	11,116.74	123.34	477,877.26	760,793.10	32.31175836	-103.62297852
- plan hits target center									
A05-01-FTP(Wild-324H) - Point	0.00	0.00	12,212.00	755.01	192.65	467,515.53	760,862.41	32.28327619	-103.62297637
- plan misses target center by 12.77usft at 12787.14usft MD (12212.04 TVD, 756.62 N, 179.98 E)									

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
11,736.00	11,736.00	0.00	0.00	KOP: 11736.00' MD, 0.00' VS, 11736.00' TVD	
13,004.29	12,211.01	973.38	190.87	EOC: 13004.29' MD, 972.09' VS, 12211.01' TVD	
23,237.98	12,162.57	11,206.73	122.74	TD: 23237.98' MD, 11205.67' VS, 12162.57' TVD	

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>Titus Oil and Gas Production LLC</b>
<b>LEASE NO.:</b>	<b>NMLC0063228</b>
<b>WELL NAME &amp; NO.:</b>	Wild Salsa Federal Com 324H
<b>SURFACE HOLE FOOTAGE:</b>	653'/N & 1186'/E
<b>BOTTOM HOLE FOOTAGE:</b>	10'/N & 990'/E
<b>LOCATION:</b>	Section 25, T.23 S., R.32 E., NMPM
<b>COUNTY:</b>	Lea County, New Mexico

COA

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

### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Cruz / Delaware** Formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

### B. CASING

1. The **13-3/8 inch** surface casing shall be set at approximately **1,340 feet** (a minimum of **25 feet (Lea County)**) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**

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.
3. The minimum required fill of cement behind the **5-1/2 inch** production casing with a tie-back into the previous casing string at approximately **4,540 feet** is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

**C. PRESSURE CONTROL**

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

#### **D. SPECIAL REQUIREMENT (S)**

##### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

## GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

## A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

## B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**YJ (11/19/2020)**

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

**OCD - HOBBS**  
**12/02/2020**  
**RECEIVED**

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-025-47638</b>		<sup>2</sup> Pool Code 17644		<sup>3</sup> Pool Name DIAMONDTAIL; BONE SPRING	
<sup>4</sup> Property Code <b>328507</b>		<sup>5</sup> Property Name WILD SALSA FED COM			<sup>6</sup> Well Number 324H
<sup>7</sup> OGRID No. 373986		<sup>8</sup> Operator Name TITUS OIL & GAS PRODUCTION, LLC			<sup>9</sup> Elevation 3721'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	25	23S	32E		653	NORTH	1186	EAST	LEA

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	13	23S	32E		10	NORTH	990	EAST	LEA

<sup>12</sup> Dedicated Acres 640.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

**<sup>17</sup> OPERATOR CERTIFICATION**

*I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.*

Signature: *Ryan DeLong* Date: 10/12/2020  
 Ryan DeLong - Regulatory Manager  
 Printed Name: rdelong@titusoil.com  
 E-mail Address

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**<sup>18</sup> SURVEYOR CERTIFICATION**

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

SEPTEMBER 14, 2020  
 Date of Survey  
 Signature and Seal of Professional Surveyor: *David W. Myers*  
 DAVID W. MYERS 11403

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

CONDITIONS

Action 11982

**CONDITIONS OF APPROVAL**

Operator:	TITUS OIL & GAS PRODUCTION, LL	420 Throckmorton St, Ste 1150	Fort Worth, TX76012	OGRID:	373986	Action Number:	11982	Action Type:	C-103A
OCD Reviewer				Condition					
pkautz				Condition	None				