			OCD - HOBBS 06/24/2020 CEIVED					
Form 3160-3 (June 2015)		OMB N	APPROVED 0. 1004-0137					
	UNITED STATES		0CC 024/2020 06/24/2020 RECEIVED	Expires: Ja	anuary 31, 2018			
	RTMENT OF THE INT U OF LAND MANAG	5. Lease Serial No.						
	OR PERMIT TO DRI		6. If Indian, Allotee	or Tribe Name				
				7 If Unit on CA Ag	reement, Name and No.			
1a. Type of work: DRILL		NTER		7. II Unit of CA Ag	reement, Name and No.			
1b. Type of Well: Oil Wel		_	_	8. Lease Name and	Well No.			
1c. Type of Completion: Hydrau	ic Fracturing Single	e Zone	Multiple Zone	[3285	071			
				[3263	0/1			
2. Name of Operator	[373986]			9. API Well No. 3	0-025-47992			
3a. Address	L J	Phone N	o. (include area code)	10, Field and Pool,				
Sa. Address	50	. Flidlie N	0. (include dred code)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				
4. Location of Well (Report location ca	early and in accordance with	any State	requirements.*)	11. Sec., T. R. M. of	r Blk. and Survey or Area			
At surface								
At proposed prod. zone								
14. Distance in miles and direction from	n nearest town or post office*			12. County or Parish	h 13. State			
15. Distance from proposed* location to nearest property or lease line, ft.		5. No of ac	res in lease 17. Space	ing Unit dedicated to t	his well			
$\frac{\text{(Also to nearest drig. unit line, if ar}}{18. \text{ Distance from proposed location}^*}$	19	9. Proposed	d Depth 20. BLN	//BIA Bond No. in file				
to nearest well, drilling, completed, applied for, on this lease, ft.		ſ						
21. Elevations (Show whether DF, KDI	3, RT, GL, etc.) 22	2. Approxi	mate date work will start*	23. Estimated durat	ion			
		24. Attac	hments					
The following, completed in accordance (as applicable)	e with the requirements of Or	nshore Oil	and Gas Order No. 1, and the	Hydraulic Fracturing r	rule per 43 CFR 3162.3-3			
 Well plat certified by a registered sur A Drilling Plan. 	veyor.		4. Bond to cover the operation Item 20 above).	ons unless covered by a	n existing bond on file (see			
3. A Surface Use Plan (if the location is SUPO must be filed with the appropriate of the superstanding of the supe		ands, the	 Operator certification. Such other site specific inf BLM. 	ormation and/or plans as	s may be requested by the			
25. Signature		Name	(Printed/Typed)		Date			
Title					<u> </u>			
Approved by (Signature)		Name	(Printed/Typed)		Date			
Title		Office			1			
Application approval does not warrant applicant to conduct operations thereon Conditions of approval, if any, are attac		olds legal o	or equitable title to those right	s in the subject lease w	hich would entitle the			
Title 18 U.S.C. Section 1001 and Title of the United States any false, fictitious					any department or agency			
GCP Rec 06/24/20	20			1 1/-				
Rec new C-102 11/0	03/2020NSP not r	needeo	TH CONDITIONS	12	200			
SL		m WI	TH CONDITION	11/16	612020			
(Continued on page 2)	APPROVI			*(In	structions on page 2)			
		100 C						

SL	
(Continued on page 2)	

*(Instructions	on	page	2)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Titus Oil and Gas Production LLC
LEASE NO.:	NMLC0063228
WELL NAME & NO.:	Wild Salsa 24-13 Federal 406H
SURFACE HOLE FOOTAGE:	653'/N & 1161'/E
BOTTOM HOLE FOOTAGE	1318'/N & 330'/E
LOCATION:	Section 25, T.23 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	• Yes	C No	
Potash	None	C Secretary	© R-111-P
Cave/Karst Potential	• Low	C Medium	C High
Cave/Karst Potential	Critical		
Variance	C None	• Flex Hose	C Other
Wellhead	Conventional	C Multibowl	C Both
Other	4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	□ Water Disposal	СОМ	🗖 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 **10-3/4 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.

Page 1 of 7 WILD SALSA 24-13 FEDERAL #406H

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of $\underline{\mathbf{8}}$ <u>hours</u> 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.
- 2. The minimum required fill of cement behind the **7-5/8 inch** intermediate casing and shall be set at approximately **11,675 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.
- 3. The minimum required fill of cement behind the **5-1/2 inch** production casing 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000** (**3M**) psi.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000** (**5M**) **psi**.

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 2nd 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity 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

Page 5 of 7 WILD SALSA 24-13 FEDERAL #406H

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 (05/28/2020)



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT



Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Ryan DeLong		Signed on: 08/14/2019								
Title: Regulatory Manag	er									
Street Address: 420 Th	rockmorton Street, Suite 1150									
City: Fort Worth State: TX Zip: 76102										
Phone: (817)852-6370										
Email address: rdelong	@titusoil.com									
Field Repres	entative									
Representative Name:										
Street Address:										
City:	State:	Zip:								
Phone: (432)553-3931										
Email address: tsmith@	≀titusoil.com									

WAFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400045866

Operator Name: TITUS OIL AND GAS PRODUCTION LLC

Well Name: WILD SALSA 24-13 FED

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Well Type: OIL WELL

Submission Date: 08/16/2019

APD Operator: TITUS OIL AND GAS PRODUCTION LLC

Well Number: 406H Well Work Type: Drill Highlighted data reflects the most recent changes

06/11/2020

Application Data Report

Show Final Text

Section 1 - General		
APD ID: 10400045866	Tie to previous NOS? N	Submission Date: 08/16/2019
BLM Office: CARLSBAD	User: Ryan DeLong	Title: Regulatory Manager
Federal/Indian APD: FED	Is the first lease penetrated f	or production Federal or Indian? FED
Lease number: NMLC0063228	Lease Acres: 1600	
Surface access agreement in place?	Allotted? Re	eservation:
Agreement in place? NO	Federal or Indian agreement:	
Agreement number:		
Agreement name:		
Keep application confidential? Y		

Permitting Agent? NO

Operator letter of designation:

Operator Info

Operator Organization Name: TITUS OIL AND GAS PRODUCTION LLC	
Operator Address: 420 Throckmorton St., Suite 1150	7 :n: 76102
Operator PO Box:	Zip: 76102
Operator City: Fort Worth State: TX	
Operator Phone: (817)852-6358	

Operator Internet Address: rdelong@titusoil.com

Section 2 - Well Information

Well in Master Development Plan? NO	Master Development Plan name:								
Well in Master SUPO? NO	Master SUPO name:								
Well in Master Drilling Plan? NO	Master Drilling Plan name:								
Well Name: WILD SALSA 24-13 FED	Well Number: 406H	Well API Number:							
Field/Pool or Exploratory? Field and Pool	Field Name: DIAMONDTAIL Pool Name: BONE SPRING								

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Well Number: 406H

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Is the proposed well in a Helium produ	uction area? N	Use Existing Well Pad? N	New surface disturbance?											
Type of Well Pad: MULTIPLE WELL		Multiple Well Pad Name:	Wild	Number: 1										
Well Class: HORIZONTAL		Salsa Number of Legs: 1												
Well Work Type: Drill														
Well Type: OIL WELL														
Describe Well Type:														
Well sub-Type: EXPLORATORY (WILD	CAT)													
Describe sub-type:														
Distance to town:	Distance to ne	arest well: 25 FT D	Distanc	e to lease line: 653 FT										
Reservoir well spacing assigned acres	s Measurement:	600 Acres												
Well plat: 20190816_R4009_WILD_S	SALSA_24_13_F	ED_406H_REV2_CERT_C	102_20	190816162153.pdf										
Well work start Date: 01/31/2020		Duration: 45 DAYS												

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number:

Vertical Datum: NAVD88

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL	653	FNL	116	FEL	23S	32E	25	Tract	32.28120		LEA	NEW				372	0	0	Y
Leg			1					A		103.6235		MEXI	MEXI		063228	1			
#1										355		со	со						
KOP	164	FNL	332	FEL	23S	32E	25	Tract	32.28255	-	LEA	NEW	NEW	F	NMLC0	-	120	119	Y
Leg								А	66	103.6208		MEXI	MEXI		063228	822	03	45	
#1										466		co	со			4			
PPP	85	FNL	333	FEL	23S	32E	25	Tract	32.28277	-	LEA	NEW	NEW	F	NMLC0	-	122	122	Y
Leg								А	36	103.6208		MEXI	MEXI		063228	848	94	08	
#1-1										512		со	со			7			

Well Number: 406H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
EXIT Leg #1	131 8	FNL	330	FEL	23S	32E	13	Tract H	32.30841 56	- 103.6208 421	LEA	NEW MEXI CO	NEW MEXI CO		NMNM 053634 4	- 865 4	216 91	123 75	Y
BHL Leg #1	131 8	FNL	330	FEL	23S	32E	13	Tract H	32.30841 56	- 103.6208 421	LEA	NEW MEXI CO			NMNM 053634 4	- 865 4	216 91	123 75	Y

WAFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400045866

Submission Date: 08/16/2019

Highlighted data reflects the most recent changes

Show Final Text

06/11/2020

Drilling Plan Data Report

Well Name: WILD SALSA 24-13 FED

Well Type: OIL WELL

Well Number: 406H

Well Work Type: Drill

Section 1 - Geologic Formations

Operator Name: TITUS OIL AND GAS PRODUCTION LLC

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
515035	QUATERNARY	3721	0	0	ALLUVIUM	NONE	N
515036	RUSTLER	2814	907	907	ANHYDRITE	USEABLE WATER	N
515037	SALADO	2484	1237	1247	SALT	NONE	N
515038	BASE OF SALT	-1096	4817	4817	SALT	NONE	N
515039	LAMAR	-1361	5082	5082	LIMESTONE	NONE	N
515040	DELAWARE	-1376	5097	5097	SANDSTONE, SHALE, SILTSTONE	NONE	N
515044	BONE SPRING LIME	-5141	8862	8862	LIMESTONE	NATURAL GAS, OIL	N
515045	BONE SPRING 1ST	-6281	10002	10002	SANDSTONE	NATURAL GAS, OIL	N
515046	BONE SPRING 2ND	-6901	10622	10622	SANDSTONE	NATURAL GAS, OIL	N
515047	BONE SPRING 3RD	-8179	11900	11901	SANDSTONE	NATURAL GAS, OIL	N
515048	WOLFCAMP	-8487	12208	12209	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 11675

Equipment: 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.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See specs and hydrostatic test chart attached in part 8 as "Flex Hose Certifications."

Testing Procedure: 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

Well Name: WILD SALSA 24-13 FED

Well Number: 406H

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.

Choke Diagram Attachment:

3M_Choke_Diagram_20190816102339.pdf

BOP Diagram Attachment:

3M_BOP_Diagram_20190816102331.pdf

Pressure Rating (PSI): 5M

Rating Depth: 12375

Equipment: 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.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See specs and hydrostatic test chart attached in part 8 as "Flex Hose Certifications."

Testing Procedure: 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.

Choke Diagram Attachment:

5M_Choke_Diagram_20190816102448.pdf

BOP Diagram Attachment:

5M_BOP_Diagram_20190816102503.pdf

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	13.5	10.75	NEW	API	N	0	1340	0	1340	3721	2381	1340	J-55	45.5	BUTT	3.41	1	DRY	11.7 3	DRY	11.7 3
2	PRODUCTI ON	6.75	5.5	NEW	API	Y	0	11175	0	11175	3721	-7454	11175	P- 110	23	BUTT	1.91	1.99	DRY	3.27	DRY	3.27
3	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	11675	0	11675	3721	-7954	11675	OTH ER	29.7	BUTT	1.14	1.15	DRY	2.09	DRY	2.09
4	PRODUCTI ON	6.75	5.0	NEW	API	Y	11175	21691	11175	12375	-7454	-8654	10516	P- 110	18	BUTT	1.91	1.99	DRY	3.27	DRY	3.27

Section 3 - Casing

Well Number: 406H

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Assumptions__deep__WILD_SALSA_20190816102640.pdf

Casing ID: 2 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Tapered_String_Spec_Wild_Salsa_24_13_406H_20200511150124.JPG

Casing Design Assumptions and Worksheet(s):

Casing_Assumptions__deep__WILD_SALSA_20190816102939.pdf

Casing ID: 3 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Tapered_String_Spec_Wild_Salsa_24_13_406H_20200511145207.JPG

Casing Design Assumptions and Worksheet(s):

Casing_Assumptions__deep__WILD_SALSA_20190816102801.pdf

Casing Attachments

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Tapered_String_Spec_Wild_Salsa_24_13_406H_20200511145325.JPG

Casing Design Assumptions and Worksheet(s):

Casing_Assumptions__deep__WILD_SALSA_20200511145349.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1340	230	1.75	13.5	402.5	50	Class C	4% Gel, 1% CaCl2
SURFACE	Tail		0	1340	250	1.34	14.8	335	50	Class C	2% CaCl2
INTERMEDIATE	Lead		0	1167 5	950	3.6	10.3	3420	50	TXI Lightweight Blend	N/A
INTERMEDIATE	Tail		0	1167 5	250	1.08	16.4	270	50	Class H	N/A
PRODUCTION	Lead		0	2169 1	370	2.5	11.9	925	35	50:50:10 H Blend	N/A
PRODUCTION	Tail		0	2169 1	1200	1.24	14.4	1488	35	50:50:2 H Blend	N/A
PRODUCTION	Lead		0	2169 1	370	2.5	11.9	925	35	50:50:10 H Blend	N/A
PRODUCTION	Tail		0	2169 1	1200	1.24	14.4	1488	35	50:50:2 H Blend	N/A

Operator Name: TITUS OIL AND GAS PRODUCTION LLC

Well Name: WILD SALSA 24-13 FED

Well Number: 406H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	935	WATER-BASED MUD	8.6	8.8							Additional mud properties included in the PDF Drilling Plan attached to section 8.
935	1167 5	SALT SATURATED	8.4	9							Additional mud properties included in the PDF Drilling Plan attached to section 8.
1167 5	1273 5	OIL-BASED MUD	10.8	11.8							Additional mud properties included in the PDF Drilling Plan attached to section 8.

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

GR from TD to surface (horizontal well - vertical portion of hole). Logs run will be stated in the completion report and submitted to the BLM.

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY,

Coring operation description for the well:

N/A

Operator Name: TITUS OIL AND GAS PRODUCTION LLC

Well Name: WILD SALSA 24-13 FED

Well Number: 406H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7595

Anticipated Surface Pressure: 4872

Anticipated Bottom Hole Temperature(F): 180

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

H2S_Plan_WILD_SALSA_24_13_FED_406H_20190815131302.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Directional_Plan_Wild_Salsa_24_13_406H_20190816104012.pdf AC_Report_Wild_Salsa_24_13_406H_20190816104017.pdf

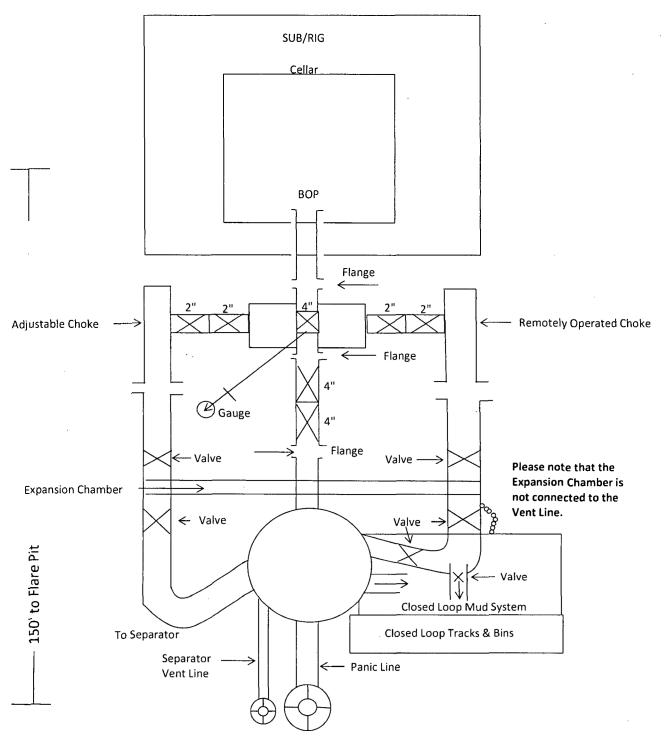
Other proposed operations facets description:

-Flex Hose Certifications -Gas Capture Plan -Drilling Plan APD -Casing Spec Sheet - L80 HP

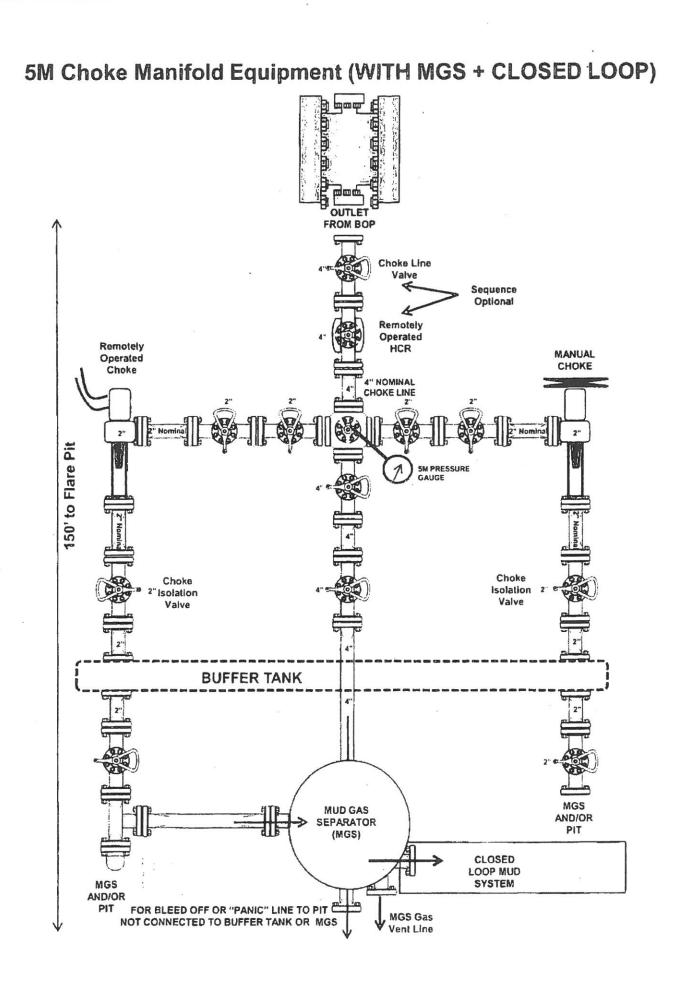
Other proposed operations facets attachment:

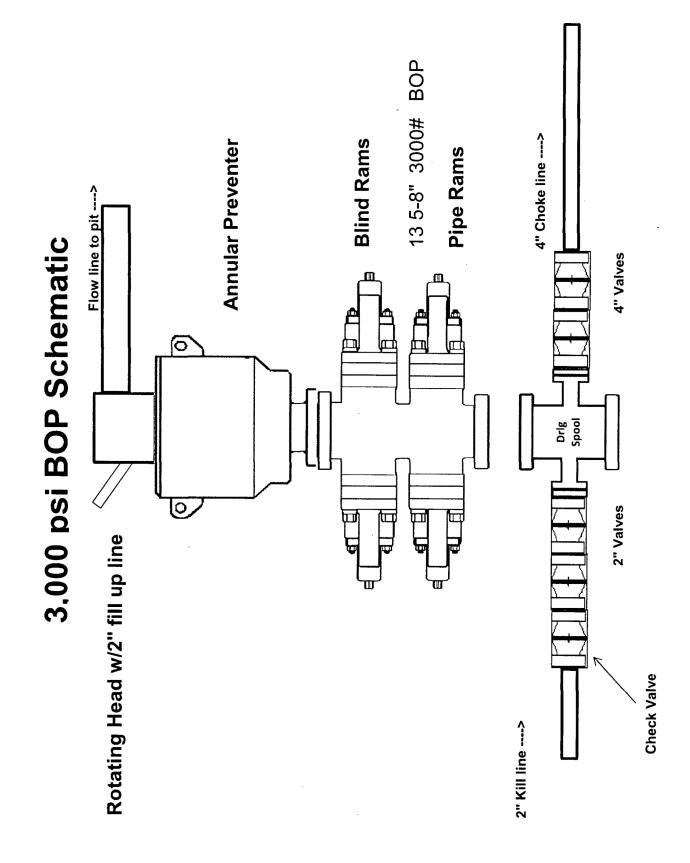
H_P_614_Flex_Hose_Certs_20190815152026.pdf Gas_Capture_Plan_WILD_SALSA_20190815152038.pdf Pipe_Body_and_API_Connections_Performance_Data_7.6250_29.7000_0.3750__L80_HP_20200511144443.pdf Wild_Salsa_24_13_Fed_406H___Drilling_Plan_20200511145032.pdf

Other Variance attachment:

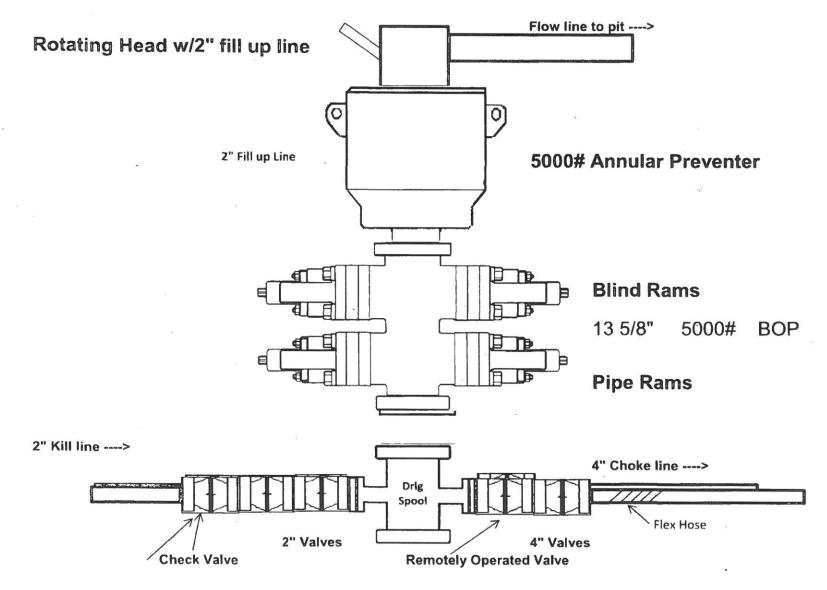


3M Choke Manifold Equipment





5,000 psi BOP Schematic



- 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.
- All casing strings will be tested in accordance with Onshore Order 2 III.B.1.h.
- The 5" casing will be run back 500' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

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TITUS Oil & Gas Production, LLC

100 Throckmorton Street Suite 1630 Fort Worth, TX 76102

Hydrogen Sulfide (H₂S) Contingency Plan

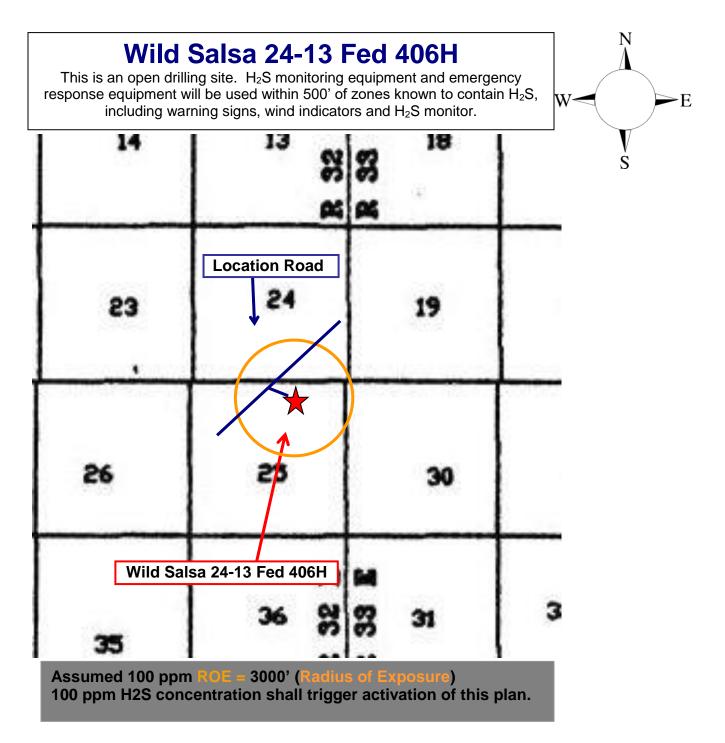
For

Wild Salsa 24-13 Fed 406H

Sec-25 T-23S R-32E 653 FNL & 1161' FEL LAT. = 32.28120465' N (NAD83) LONG = 103.62353556' W

Lea County NM

Titus Oil & Gas Cont. Plan - Page 1



Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. <u>There are no homes or buildings in or near the ROE</u>.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - \circ Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Common	Chemical	Specific	Threshold	Hazardous	Lethal				
Name	Formula	Gravity	Limit	Limit	Concentration				
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm				
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm				

Characteristics of H₂S and SO₂

Contacting Authorities

Titus Oil & Gas personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Titus Oil & Gas Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H₂S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H_2S .

1. Well Control Equipment

- A. Flare line
- B. Choke manifold Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
 Possum Belly/Shale shaker
- Rig floor
 Choke manifold
- Cellar

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Titus Oil & Gas Company Call List

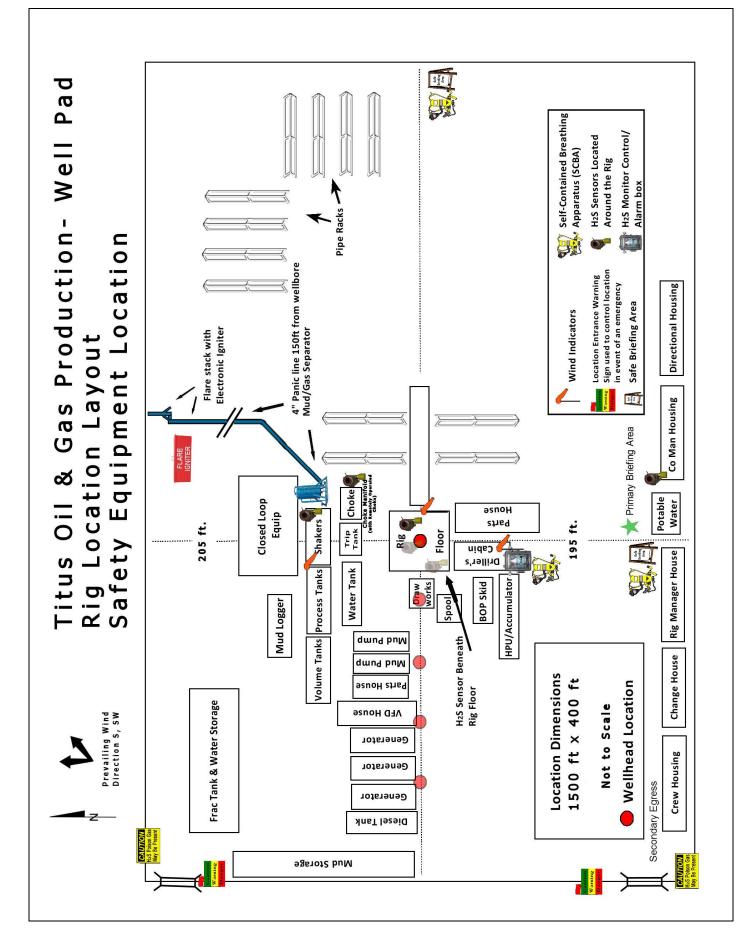
Drilling Supervisor –

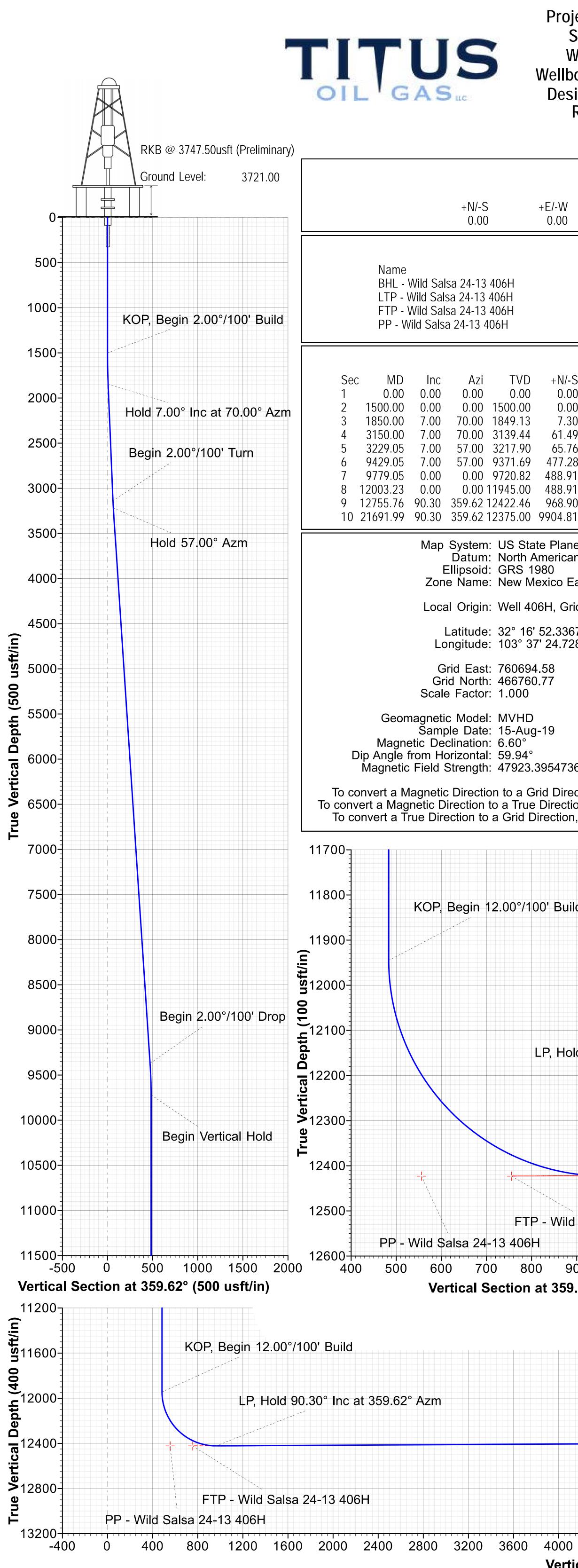
Ryan DeLong -

Office (817) 852-6370 Mobile (405) 664-5188

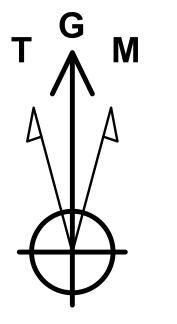
Agency	Call List	
Lea	Hobbs	
County	Lea County Communication Authority	393-3981
(575)	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
F alaha	Opplated	
<u>Eddy</u> County	Carlsbad	005 0407
<u>(575)</u>	State Police	<u>885-3137</u> 885-2111
<u>(010)</u>	City Police Sheriff's Office	887-7551
	Ambulance	<u> </u>
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	()
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control 915-699-0139	(915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
Give	Native Air – Emergency Helicopter – Hobbs	(575) 392-6429
GPS	Flight For Life - Lubbock, TX	(806) 743-9911
position:	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	

Prepared in conjunction with Dave Small





Project: Lea County, NM - (NAD83 NME) Site: Wild Salsa 24-13 Well: 406H Wellbore: OH Design: Plan 1 08-15-19 Rig: Preliminary



WELL DETAILS		11200-	
Ground Level: 3721.00 +E/-W Northing Easting Latitude Longitude		40000	
+E/-W Northing Easting Latitude Longitude 0.00 466760.77 760694.58 32° 16' 52.336795 N 103° 37' 24.728058 W LEGENI	כ ע	10800-	
DESIGN TARGET DETAILS TVD VIC VIC Northing Facting Latitude Langitude	1/0	10400-	
TVD +N/-S +E/-W Northing Easting Latitude Longitude 12375.00 9904.81 766.64 476665.58 761461.22 32° 18' 30.296455 N 103° 37' 15.031563 W 404H, OH, Plan 3			
12375.53 9804.81 767.31 476565.58 761461.89 32° 18' 29.306895 N 103° 37' 15.031501 W —— 223H, OH, Plan 2 12423.00 761.32 827.80 467522.09 761522.38 32° 16' 59.815912 N 103° 37' 15.026825 W		10000-	
12423.00 561.33 829.08 467322.10 761523.66 32° 16' 57.836886 N 103° 37' 15.027388 W 95H, OH, Plan 1 (405H, OH, Plan 1		9600-	
SECTION DETAILS 5H, OH, Surveys		9000	
VD +N/-S +E/-W Dleg TFace VSect Target Annotation		9200-	
.00 0.00 0.00 0.00 0.00 0.00 0.00 96H, OH, Plan 1 (.00 0.00 0.00 0.00 0.00 0.00 96H, OH, Plan 1 (.13 7.30 20.07 2.00 70.00 7.17 Hold 7.00° Inc at 70.00° Azm —— 324H, OH, Plan 1			
.44 61.49 168.94 0.00 0.00 60.37 .90 65.76 177.51 2.00 -96.45 64.58 Begin 2.00°/100' Turn — 215H, OH, Plan 1		8800-	
.69 477.28 811.20 0.00 0.00 471.89 .82 488.91 829.11 2.00 180.00 483.41 Begin Vertical Hold 216H, OH, Plan 1		8400-	
.00 488.91 829.11 0.00 0.00 483.41 .46 968.90 825.92 12.00 359.62 963.41 KOP, Begin 12.00°/100' Build LP, Hold 90.30° Inc at 359.62° Azm HH, OH, Surveys		0400	
.00 9904.81 766.64 0.00 0.00 9899.51 BHL - Wild Salsa 24-13 406H TD at 21691.99 — 94H, OH, Plan 1 (8000-	
State Plane 1983 th American Datum 1983 214H, OH, Plan 1			
S 1980 w Mexico Eastern Zone 323H, OH, Plan 1		7600-	
II 406H, Grid North		7200-	
16' 52.336795 N 3° 37' 24.728058 W		1200	
0694.58		6800-	
5760.77	Wild Salsa 24-13 406H		
HD 9950 Section Lines		(i 6400-	
Aug-19 0° 94°	TD at 21691.99	Sn 6000-	
9900 Lease Line		(400	
a Grid Direction, Add 6.22° True Direction, Add 6.60° East		+ 5600-	300
id Direction, Subtract 0.38° Wild Salsa 24-13 216H		Nor Nor	T
300- 300- LTP 100' FNL		(-)	
		nos 4800-	
°/100' Build	P - Wild Salsa 24-13 406		L e a
Begin 2.00°/100' Turn 324H		4400-	
		4000-	ines
\mathbf{f}		3600-	
LP, Hold 90.30° Inc at 359.62° Azm	S S S S S S S S S S S S S S S S S S S		
9 550 − − − − − − − − − −		3200-	
9550- 9500-	h h h	2800-	
9500- 9500- 95H			
	3 0 H	2400-	
-50-404H Hold 7.00° Inc at 70.00° Azm		0000	
FTP - Wild Salsa 24-13 406H -100-		2000-	
06H KOP, Begin 2.00°/100' Build		1600-	
800 900 1000 1100 1200 1300 -150 -100 -50 0 50 100 150 200 9350 -100 750 800			
on at 359.62° (100 usft/in) West(-)/East(+) (50 usft/in) West(-)/East(+) (50) usft/in)	1200-	
		800-	
		400-	
TD at 21691.99			
		0-	7-H∳ 2H
LTP - Wild Salsa 24-13 406H ²		-400	
BHL - Wild Salsa 24-13 406H		-800+	600 -1200
		-10	

00 4000 4400 4800 5200 5600 6000 6400 6800 7200 7600 8000 8400 8800 9200 9600 10000 10400 Vertical Section at 359.62° (400 usft/in)

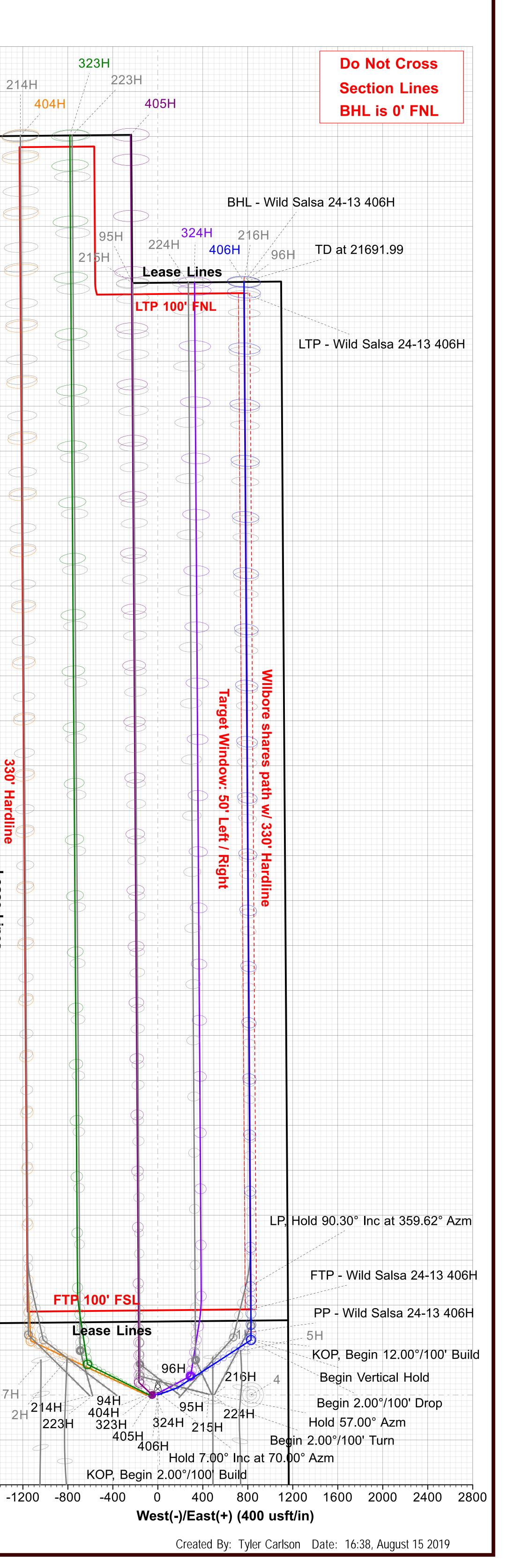


12000₇

11600-

Azimuths to Grid North True North: -0.38° Magnetic North: 6.22°

Magnetic Field Strength: 47923.4snT Dip Angle: 59.94° Date: 8/15/2019 Model: MVHD





Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME) Wild Salsa 24-13 406H

ОН

Plan: Plan 1 08-15-19

Standard Planning Report

15 August, 2019







Database:	USA Compa			Local Co-or	dinate Referei	nce: Well 4	06H		
Company:	Titus Oil & G	as Production, I	LLC	TVD Referen	nce:	RKB (@ 3747.50usft (P	reliminary)	
Project:	Lea County,	NM - (NAD83 N	IME)	MD Referen	ce:	RKB (@ 3747.50usft (P	reliminary)	
Site:	Wild Salsa 24	4-13		North Refer	ence:	Grid			
Well:	406H			Survey Calo	ulation Metho	d: Minim	um Curvature		
Wellbore:	ОН								
Design:	Plan 1 08-15	-19							
Project	Lea County, N	IM - (NAD83 NI	ME)						
Map System:	US State Plane			System Datu	n:	Mean Se	ea Level		
Oco Datam.	North American								
Map Zone:	New Mexico Ea	istern Zone							
Site	Wild Salsa 24	-13							
Site Position:			Northing:	466,7	59.47 usft L	atitude:		32° 16' 52.	.363056 N
From:	Lat/Long		Easting:	760,0	96.73 usft L	.ongitude:		103° 37' 31.6	692000 W
Position Uncertainty:	-	1.00 usft	Slot Radius:		13-3/16 " G	Grid Convergence:			0.38 °
Well	406H								
		4.00	N a stale in an		400 700 77	-64 1 - 454		208 401 52	220705 N
Well Position	+N/-S	1.30 usft	Northing:		466,760.77 u			32° 16' 52.	
	+E/-W	597.85 usft	Easting:		760,694.58 u	-		103° 37' 24.7	
Position Uncertainty		0.00 usft	Wellhead Ele	vation:		Ground L	.evel:	3,7	21.00 usft
Wellbore	OH								
Magnetics	Model Na	me	Sample Date	Declinatio	n	Dip Angle		Field Strength	
inagriotico	modoritu		Cumpic Duto	(°)		(°)		(nT)	
		MVHD	8/15/2019	()	6.60	.,	59.94	47,923.3954736	9
Design	Plan 1 08-15-	10							
Audit Notes:	1 101 1 00-10-	10							
Version:			Phase:	PLAN	Tie C)n Donthi	0.00		
version:			Phase:	PLAN	The C	In Depth:	0.00		
Vertical Section:		-	rom (TVD)	+N/-S	+E/-\		Direction		
		•	isft)	(usft)	(usf	•	(°)		
		0	.00	0.00	0.00	J	359.62		
Plan Survey Tool Pro	gram	Date 8/15/2	2019						
Depth From	Depth To								
(usft)	(usft)	Survey (Wellb	ore)	Tool Name		Remarks			
			a (au)						
1 0.00	21,691.99	Plan 1 08-15-1	9 (OH)	MWD+HRGM					
1 0.00	21,691.99	Plan 1 08-15-1	9 (OH)	MWD+HRGM OWSG MWD + I	HRGM				





Database:	USA Compass	Local Co-ordinate Reference:	Well 406H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3747.50usft (Preliminary)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3747.50usft (Preliminary)
Site:	Wild Salsa 24-13	North Reference:	Grid
Well:	406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan 1 08-15-19		

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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,850.00	7.00	70.00	1,849.13	7.30	20.07	2.00	2.00	0.00	70.00	
3,150.00	7.00	70.00	3,139.44	61.49	168.94	0.00	0.00	0.00	0.00	
3,229.05	7.00	57.00	3,217.90	65.76	177.51	2.00	0.00	-16.45	-96.45	
9,429.05	7.00	57.00	9,371.69	477.28	811.20	0.00	0.00	0.00	0.00	
9,779.05	0.00	0.00	9,720.82	488.91	829.11	2.00	-2.00	0.00	180.00	
12,003.23	0.00	0.00	11,945.00	488.91	829.11	0.00	0.00	0.00	0.00	
12,755.76	90.30	359.62	12,422.46	968.90	825.92	12.00	12.00	-0.05	359.62	
21,691.99	90.30	359.62	12,375.00	9,904.81	766.64	0.00	0.00	0.00	0.00	BHL - Wild Salsa 24





Database:	USA Compass	Local Co-ordinate Reference:	Well 406H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3747.50usft (Preliminary)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3747.50usft (Preliminary)
Site:	Wild Salsa 24-13	North Reference:	Grid
Well:	406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan 1 08-15-19		

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
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP. Begin	2.00°/100' Build								
1,600.00	2.00	70.00	1,599.98	0.60	1.64	0.59	2.00	2.00	0.00
1,700.00	4.00	70.00	1,699.84	2.39	6.56	2.34	2.00	2.00	0.00
1,800.00	6.00	70.00	1,799.45	5.37	14.75	5.27	2.00	2.00	0.00
1,850.00	7.00	70.00	1,849.13	7.30	20.07	7.17	2.00	2.00	0.00
	nc at 70.00° Azm								
1,900.00	7.00	70.00	1,898.76	9.39	25.79	9.22	0.00	0.00	0.00
2,000.00	7.00	70.00	1,998.01	13.56	37.24	13.31	0.00	0.00	0.00
2,100.00	7.00	70.00	2,097.27	17.72	48.70	17.40	0.00	0.00	0.00
2,200.00	7.00	70.00	2,196.52	21.89	60.15	21.49	0.00	0.00	0.00
2,300.00	7.00	70.00	2,295.78	26.06	71.60	25.58	0.00	0.00	0.00
2,400.00	7.00	70.00	2,395.03	30.23	83.05	29.68	0.00	0.00	0.00
2,500.00	7.00	70.00	2,494.29	34.40	94.50	33.77	0.00	0.00	0.00
2,600.00	7.00	70.00	2,593.54	38.56	105.96	37.86	0.00	0.00	0.00
2,700.00	7.00	70.00	2,692.79	42.73	117.41	41.95	0.00	0.00	0.00
2,800.00	7.00	70.00	2,792.05	46.90	128.86	46.05	0.00	0.00	0.00
2,900.00	7.00	70.00	2,891.30	51.07	140.31	50.14	0.00	0.00	0.00
3,000.00	7.00	70.00	2,990.56	55.24	151.76	54.23	0.00	0.00	0.00
3,100.00	7.00	70.00	3,089.81	59.41	163.22	58.32	0.00	0.00	0.00
3,150.00	7.00	70.00	3,139.44	61.49	168.94	60.37	0.00	0.00	0.00
Begin 2.00°/			-,						
-									
3,200.00	6.96	61.77	3,189.07	63.96	174.47	62.81	2.00	-0.08	-16.46
3,229.05	7.00	57.00	3,217.90	65.76	177.51	64.58	2.00	0.14	-16.42
Hold 57.00°									
3,300.00	7.00	57.00	3,288.33	70.47	184.76	69.24	0.00	0.00	0.00
3,400.00	7.00	57.00	3,387.58	77.11	194.98	75.81	0.00	0.00	0.00
3,500.00	7.00	57.00	3,486.84	83.75	205.20	82.38	0.00	0.00	0.00
3,600.00	7.00	57.00	3,586.09	90.38	215.42	88.95	0.00	0.00	0.00
3,700.00	7.00	57.00	3,685.35	97.02	225.64	95.52	0.00	0.00	0.00
3,800.00	7.00	57.00	3,784.60	103.66	235.86	102.09	0.00	0.00	0.00
3,900.00	7.00	57.00	3,883.85	110.30	246.08	108.66	0.00	0.00	0.00
4,000.00	7.00	57.00	3,983.11	116.93	256.31	115.23	0.00	0.00	0.00
4,100.00	7.00	57.00	4,082.36	123.57	266.53	121.80	0.00	0.00	0.00
4,100.00	7.00	57.00 57.00	4,082.36 4,181.62	123.57	200.55 276.75	121.60	0.00	0.00	0.00
4,200.00	7.00	57.00 57.00	4,181.62	136.85	276.75 286.97	120.37 134.94	0.00	0.00	0.00
4,300.00	7.00	57.00	4,380.13	143.48	200.97	134.94	0.00	0.00	0.00
4,400.00	7.00	57.00	4,479.38	150.12	307.41	141.01	0.00	0.00	0.00
4,600.00	7.00	57.00	4,578.64	156.76	317.63	154.65	0.00	0.00	0.00
4,700.00	7.00	57.00	4,677.89	163.39	327.85	161.22	0.00	0.00	0.00
4,800.00	7.00	57.00	4,777.15	170.03	338.07	167.79	0.00	0.00	0.00
4,900.00	7.00	57.00	4,876.40	176.67	348.29	174.36	0.00	0.00	0.00
5,000.00	7.00	57.00	4,975.66	183.31	358.51	180.93	0.00	0.00	0.00
5,100.00	7.00	57.00	5,074.91	189.94	368.73	187.50	0.00	0.00	0.00
5,200.00	7.00	57.00	5,174.16	196.58	378.96	194.06	0.00	0.00	0.00
5,300.00	7.00	57.00	5,273.42	203.22	389.18	200.63	0.00	0.00	0.00
5,400.00	7.00	57.00	5,372.67	209.86	399.40	207.20	0.00	0.00	0.00
5,500.00	7.00	57.00	5,471.93	216.49	409.62	213.77	0.00	0.00	0.00
5,600.00	7.00	57.00	5,571.18	223.13	419.84	220.34	0.00	0.00	0.00
5,700.00	7.00	57.00	5,670.44	229.77	430.06	226.91	0.00	0.00	0.00
5,800.00	7.00	57.00	5,769.69	236.41	440.28	233.48	0.00	0.00	0.00
5,900.00	7.00	57.00	5,868.95	243.04	450.50	240.05	0.00	0.00	0.00
6,000.00	7.00	57.00	5,968.20	249.68	460.72	246.62	0.00	0.00	0.00





Database:	USA Compass	Local Co-ordinate Reference:	Well 406H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3747.50usft (Preliminary)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3747.50usft (Preliminary)
Site:	Wild Salsa 24-13	North Reference:	Grid
Well:	406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan 1 08-15-19		

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)
6,100.00	7.00	57.00	6,067.46	256.32	470.94	253.19	0.00	0.00	0.00
6,200.00	7.00	57.00	6,166.71	262.96	481.16	259.76	0.00	0.00	0.00
6,300.00	7.00	57.00	6,265.97	269.59	491.38	266.33	0.00	0.00	0.00
6,400.00	7.00	57.00	6,365.22	276.23	501.61	272.90	0.00	0.00	0.00
6,500.00	7.00	57.00	6,464.47	282.87	511.83	279.47	0.00	0.00	0.00
6,600.00	7.00	57.00	6,563.73	289.51	522.05	286.04	0.00	0.00	0.00
6,700.00	7.00	57.00	6,662.98	296.14	532.27	292.61	0.00	0.00	0.00
6,800.00	7.00	57.00	6,762.24	302.78	542.49	299.18	0.00	0.00	0.00
6,900.00	7.00	57.00	6,861.49	309.42	552.71	305.75	0.00	0.00	0.00
7,000.00	7.00	57.00	6,960.75	316.06	562.93	312.32	0.00	0.00	0.00
7,100.00	7.00	57.00	7,060.00	322.69	573.15	318.89	0.00	0.00	0.00
7,200.00	7.00	57.00	7,159.26	329.33	583.37	325.46	0.00	0.00	0.00
7,300.00	7.00	57.00	7,258.51	335.97	593.59	332.03	0.00	0.00	0.00
7,400.00	7.00	57.00	7,357.77	342.61	603.81	338.59	0.00	0.00	0.00
7,500.00	7.00	57.00	7,457.02	349.24	614.03	345.16	0.00	0.00	0.00
7,600.00	7.00	57.00	7,556.28	355.88	624.26	351.73	0.00	0.00	0.00
7,700.00	7.00	57.00	7,655.53	362.52	634.48	358.30	0.00	0.00	0.00
7,800.00	7.00	57.00	7,754.78	369.16	644.70	364.87	0.00	0.00	0.00
7,900.00	7.00	57.00	7,854.04	375.79	654.92	371.44	0.00	0.00	0.00
8,000.00	7.00	57.00	7,953.29	382.43	665.14	378.01	0.00	0.00	0.00
8,100.00	7.00	57.00	8,052.55	389.07	675.36	384.58	0.00	0.00	0.00
8,200.00	7.00	57.00	8,151.80	395.71	685.58	391.15	0.00	0.00	0.00
8,300.00	7.00	57.00	8,251.06	402.34	695.80	397.72	0.00	0.00	0.00
8,400.00	7.00	57.00	8,350.31	408.98	706.02	404.29	0.00	0.00	0.00
8,500.00	7.00	57.00	8,449.57	415.62	716.24	410.86	0.00	0.00	0.00
8,600.00	7.00	57.00	8,548.82	422.26	726.46	417.43	0.00	0.00	0.00
8,700.00	7.00	57.00	8,648.08	428.89	736.68	424.00	0.00	0.00	0.00
8,800.00	7.00	57.00	8,747.33	435.53	746.91	430.57	0.00	0.00	0.00
8,900.00	7.00	57.00	8,846.59	442.17	757.13	437.14	0.00	0.00	0.00
9,000.00	7.00	57.00	8,945.84	448.81	767.35	443.71	0.00	0.00	0.00
9,100.00	7.00	57.00	9,045.09	455.44	777.57	450.28	0.00	0.00	0.00
9,200.00	7.00	57.00	9,144.35	462.08	787.79	456.85	0.00	0.00	0.00
9,300.00	7.00	57.00	9,243.60	468.72	798.01	463.42	0.00	0.00	0.00
9,400.00	7.00	57.00	9,342.86	475.36	808.23	469.99	0.00	0.00	0.00
9,429.05	7.00	57.00	9,371.69	477.28	811.20	471.89	0.00	0.00	0.00
Begin 2.00°/1	00' Drop								
9,500.00	5.58	57.00	9,442.21	481.52	817.72	476.08	2.00	-2.00	0.00
9,600.00	3.58	57.00	9,541.89	485.87	824.42	480.39	2.00	-2.00	0.00
9,700.00	1.58	57.00	9,641.78	488.32	828.19	482.82	2.00	-2.00	0.00
9,779.05	0.00	0.00	9,720.82	488.91	829.11	483.41	2.00	-2.00	0.00
Begin Vertica 12,003.23	al Hold 0.00	0.00	11,945.00	488.91	829.11	483.41	0.00	0.00	0.00
	2.00°/100' Build		11,945.00	400.91	029.11	403.41	0.00	0.00	0.00
12,100.00	11.61	359.62	12,041.11	498.69	829.04	493.18	12.00	12.00	0.00
12,100.00	23.61	359.62 359.62	12,041.11	498.69 528.89	829.04 828.84	493.18 523.38	12.00	12.00	0.00
12,200.00	35.61	359.62 359.62	12,136.25	526.69 578.21	828.52	523.36 572.70	12.00	12.00	0.00
12,300.00	47.61	359.62 359.62	12,223.03	644.50	828.08	638.99		12.00	0.00
12,400.00	59.61	359.62 359.62	12,297.00	644.50 724.85	827.54	719.35	12.00 12.00	12.00	0.00
12,600.00	71.61	359.62	12,398.09	815.76	826.94	810.26	12.00	12.00	0.00
12,700.00	83.61	359.62	12,419.50	913.25	826.29	907.75	12.00	12.00	0.00
12,755.76	90.30	359.62	12,419.50	968.90	825.92	963.41	12.00	12.00	0.00
	0° Inc at 359.62								
12,800.00	90.30	359.62	12,422.22	1,013.14	825.63	1,007.64	0.00	0.00	0.00





Database:	USA Compass	Local Co-ordinate Reference:	Well 406H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3747.50usft (Preliminary)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3747.50usft (Preliminary)
Site:	Wild Salsa 24-13	North Reference:	Grid
Well:	406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan 1 08-15-19		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,900.00	90.30	359.62	12,421.69	1,113.14	824.97	1,107.64	0.00	0.00	0.00
13,000.00	90.30	359.62	12,421.16	1,213.13	824.30	1.207.64	0.00	0.00	0.00
13,100.00	90.30	359.62	12,420.63	1,313.13	823.64	1,307.64	0.00	0.00	0.00
13,200.00	90.30	359.62	12,420.10	1,413.12	822.98	1,407.64	0.00	0.00	0.00
13,300.00	90.30	359.62	12,419.57	1,513.12	822.31	1,507.63	0.00	0.00	0.00
13,400.00	90.30	359.62	12,419.04	1,613.12	821.65	1,607.63	0.00	0.00	0.00
13,500.00	90.30	359.62	12,418.51	1,713.11	820.99	1,707.63	0.00	0.00	0.00
13,600.00	90.30	359.62	12,417.97	1,813.11	820.32	1,807.63	0.00	0.00	0.00
13,700.00	90.30	359.62	12,417.44	1,913.11	819.66	1,907.63	0.00	0.00	0.00
13,800.00	90.30	359.62	12,416.91	2,013.10	819.00	2,007.63	0.00	0.00	0.00
13,900.00	90.30	359.62	12,416.38	2,113.10	818.33	2,107.63	0.00	0.00	0.00
14,000.00	90.30	359.62	12,415.85	2,213.10	817.67	2,207.62	0.00	0.00	0.00
,			,	,		,			
14,100.00	90.30	359.62	12,415.32	2,313.09	817.01	2,307.62	0.00	0.00	0.00
14,200.00	90.30	359.62	12,414.79	2,413.09	816.34	2,407.62	0.00	0.00	0.00
14,300.00	90.30	359.62	12,414.26	2,513.08	815.68	2,507.62	0.00	0.00	0.00
14,400.00	90.30	359.62	12,413.73	2,613.08	815.02	2,607.62	0.00	0.00	0.00
14,500.00	90.30	359.62	12,413.20	2,713.08	814.35	2,707.62	0.00	0.00	0.00
14,600.00	90.30	359.62	12,412.66	2,813.07	813.69	2,807.62	0.00	0.00	0.00
14,700.00	90.30	359.62	12,412.13	2,913.07	813.03	2,907.61	0.00	0.00	0.00
14,800.00	90.30	359.62	12,411.60	3,013.07	812.36	3,007.61	0.00	0.00	0.00
14,800.00	90.30	359.62	12,411.00	3,113.06	811.70	3,107.61	0.00	0.00	0.00
14,900.00	90.30	339.02	12,411.07	3,113.00	011.70	3,107.01	0.00		0.00
15,000.00	90.30	359.62	12,410.54	3,213.06	811.04	3,207.61	0.00	0.00	0.00
15,100.00	90.30	359.62	12,410.01	3,313.06	810.37	3,307.61	0.00	0.00	0.00
15,200.00	90.30	359.62	12,409.48	3,413.05	809.71	3,407.61	0.00	0.00	0.00
15,300.00	90.30	359.62	12,408.95	3,513.05	809.04	3,507.61	0.00	0.00	0.00
15,400.00	90.30	359.62	12,408.42	3,613.05	808.38	3,607.60	0.00	0.00	0.00
15,500.00	90.30	359.62	12,407.88	3,713.04	807.72	3,707.60	0.00	0.00	0.00
15,600.00	90.30	359.62	12,407.35	3,813.04	807.05	3,807.60	0.00	0.00	0.00
15,700.00	90.30	359.62	12,406.82	3,913.03	806.39	3,907.60	0.00	0.00	0.00
15,800.00	90.30	359.62	12,406.29	4,013.03	805.73	4,007.60	0.00	0.00	0.00
15,900.00	90.30	359.62	12,405.76	4,113.03	805.06	4,107.60	0.00	0.00	0.00
16,000.00	90.30	359.62	12,405.23	4,213.02	804.40	4,207.60	0.00	0.00	0.00
16,100.00	90.30	359.62	12,404.70	4,313.02	803.74	4,307.59	0.00	0.00	0.00
16,200.00	90.30	359.62	12,404.17	4,413.02	803.07	4,307.59	0.00	0.00	0.00
16,300.00	90.30	359.62	12,403.64	4,413.02	803.07	4,407.59	0.00	0.00	0.00
16,300.00	90.30 90.30	359.62 359.62	12,403.64	4,513.01 4,613.01	802.41 801.75	4,507.59 4,607.59	0.00	0.00	0.00
10,400.00	90.30				001.75	4,007.59			
16,500.00	90.30	359.62	12,402.57	4,713.01	801.08	4,707.59	0.00	0.00	0.00
16,600.00	90.30	359.62	12,402.04	4,813.00	800.42	4,807.59	0.00	0.00	0.00
16,700.00	90.30	359.62	12,401.51	4,913.00	799.76	4,907.59	0.00	0.00	0.00
16,800.00	90.30	359.62	12,400.98	5,012.99	799.09	5,007.58	0.00	0.00	0.00
16,900.00	90.30	359.62	12,400.45	5,112.99	798.43	5,107.58	0.00	0.00	0.00
17,000.00	90.30	359.62	12,399.92	5,212.99	797.77	5,207.58	0.00	0.00	0.00
17,100.00	90.30	359.62	12,399.39	5,312.98	797.10	5,307.58	0.00	0.00	0.00
17,200.00	90.30	359.62	12,398.86	5,412.98	796.44	5,407.58	0.00	0.00	0.00
17,300.00	90.30	359.62	12,398.33	5,512.98	795.78	5,507.58	0.00	0.00	0.00
17,400.00	90.30	359.62	12,397.79	5,612.97	795.11	5,607.58	0.00	0.00	0.00
17,500.00	90.30	359.62	12,397.26	5,712.97	794.45	5,707.57	0.00	0.00	0.00
17,600.00	90.30	359.62	12,396.73	5,812.97	793.79	5,807.57	0.00	0.00	0.00
17,700.00	90.30	359.62	12,396.20	5,912.96	793.12	5,907.57	0.00	0.00	0.00
17,800.00	90.30	359.62	12,395.67	6,012.96	792.46	6,007.57	0.00	0.00	0.00
17,900.00	90.30	359.62	12,395.07	6,112.96	792.40	6,107.57	0.00	0.00	0.00
18,000.00	90.30	359.62	12,394.61	6,212.95	791.13	6,207.57	0.00	0.00	0.00
18,100.00	90.30	359.62	12,394.08	6,312.95	790.47	6,307.57	0.00	0.00	0.00
18,200.00	90.30	359.62	12,393.55	6,412.94	789.81	6,407.57	0.00	0.00	0.00





Database	: USA Compass	Local Co-ordinate Reference:	Well 406H
Company		TVD Reference:	RKB @ 3747.50usft (Preliminary)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3747.50usft (Preliminary)
Site:	Wild Salsa 24-13	North Reference:	Grid
Well:	406H	Survey Calculation Method:	Minimum Curvature
Wellbore	OH		
Design:	Plan 1 08-15-19		

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 18,400.00	90.30 90.30	359.62 359.62	12,393.01 12,392.48	6,512.94 6,612.94	789.14 788.48	6,507.56 6,607.56	0.00 0.00	0.00 0.00	0.00 0.00
18,500.00 18,600.00 18,700.00 18,800.00 18,900.00	90.30 90.30 90.30 90.30 90.30	359.62 359.62 359.62 359.62 359.62	12,391.95 12,391.42 12,390.89 12,390.36 12,389.83	6,712.93 6,812.93 6,912.93 7,012.92 7,112.92	787.82 787.15 786.49 785.83 785.16	6,707.56 6,807.56 6,907.56 7,007.56 7,107.56	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
19,000.00 19,100.00 19,200.00 19,300.00 19,400.00	90.30 90.30 90.30 90.30 90.30	359.62 359.62 359.62 359.62 359.62	12,389.30 12,388.77 12,388.23 12,387.70 12,387.17	7,212.92 7,312.91 7,412.91 7,512.90 7,612.90	784.50 783.84 783.17 782.51 781.85	7,207.55 7,307.55 7,407.55 7,507.55 7,607.55	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
19,500.00 19,600.00 19,700.00 19,800.00 19,900.00	90.30 90.30 90.30 90.30 90.30	359.62 359.62 359.62 359.62 359.62 359.62	12,386.64 12,386.11 12,385.58 12,385.05 12,384.52	7,712.90 7,812.89 7,912.89 8,012.89 8,112.88	781.18 780.52 779.85 779.19 778.53	7,707.55 7,807.55 7,907.54 8,007.54 8,107.54	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
20,000.00 20,100.00 20,200.00 20,300.00 20,400.00	90.30 90.30 90.30 90.30 90.30	359.62 359.62 359.62 359.62 359.62 359.62	12,383.99 12,383.45 12,382.92 12,382.39 12,381.86	8,212.88 8,312.88 8,412.87 8,512.87 8,612.86	777.86 777.20 776.54 775.87 775.21	8,207.54 8,307.54 8,407.54 8,507.54 8,607.53	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
20,500.00 20,600.00 20,700.00 20,800.00 20,900.00	90.30 90.30 90.30 90.30 90.30	359.62 359.62 359.62 359.62 359.62 359.62	12,381.33 12,380.80 12,380.27 12,379.74 12,379.21	8,712.86 8,812.86 8,912.85 9,012.85 9,112.85	774.55 773.88 773.22 772.56 771.89	8,707.53 8,807.53 8,907.53 9,007.53 9,107.53	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21,000.00 21,100.00 21,200.00 21,300.00 21,400.00	90.30 90.30 90.30 90.30 90.30	359.62 359.62 359.62 359.62 359.62	12,378.68 12,378.14 12,377.61 12,377.08 12,376.55	9,212.84 9,312.84 9,412.84 9,512.83 9,612.83	771.23 770.57 769.90 769.24 768.58	9,207.53 9,307.52 9,407.52 9,507.52 9,607.52	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21,500.00 21,600.00 21,691.99 TD at 21691.	90.30 90.30 90.30	359.62 359.62 359.62	12,376.02 12,375.49 12,375.00	9,712.83 9,812.82 9,904.81	767.91 767.25 766.64	9,707.52 9,807.52 9,899.51	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00





Database: Company: Project: Site: Well: Wellbore: Design:	USA Compass Titus Oil & Gas Production, LLC Lea County, NM - (NAD83 NME) Wild Salsa 24-13 406H OH Plan 1 08-15-19					rdinate Reference: ence: nce: rence: culation Method:	RKB (RKB (Grid	Well 406H RKB @ 3747.50usft (Preliminary) RKB @ 3747.50usft (Preliminary) Grid Minimum Curvature			
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		
BHL - Wild Salsa 24-13 - plan hits target ca - Point		0.00	12,375.00	9,904.81	766.64	476,665.58	761,461.2	2 32° 18' 30.296455 I	N 103° 37' 15.031563 W		
LTP - Wild Salsa 24-13 - plan misses targe - Rectangle (sides	et center by 0.0	lusft at 2159		9,804.81) (12375.53 TV	767.31 /D, 9804.81 N	476,565.58 I, 767.30 E)	761,461.8	9 32° 18' 29.306895 I	N 103° 37' 15.031501 W		
PP - Wild Salsa 24-13 - plan misses targe - Point			12,423.00 2407.42usft l	561.33 MD (12302.61	829.08 TVD, 650.01	467,322.10 N, 828.04 E)	761,523.6	6 32° 16' 57.836886 I	N 103° 37' 15.027388 W		
FTP - Wild Salsa 24-13 - plan misses targe - Point			12,423.00 560.63usft M	761.32 D (12384.14 T	827.80 VD, 778.95 N	467,522.09 I, 827.18 E)	761,522.3	8 32° 16' 59.815912 I	N 103° 37' 15.026825 W		
Plan Annotations											
Meas Dep		tical pth	Loca +N/-S	al Coordinates +E	s E/-W						

Measured	Vertical	Local Coor	dinates		
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
1,500.00	1,500.00	0.00	0.00	KOP, Begin 2.00°/100' Build	
1,850.00	1,849.13	7.30	20.07	Hold 7.00° Inc at 70.00° Azm	
3,150.00	3,139.44	61.49	168.94	Begin 2.00°/100' Turn	
3,229.05	3,217.90	65.76	177.51	Hold 57.00° Azm	
9,429.05	9,371.69	477.28	811.20	Begin 2.00°/100' Drop	
9,779.05	9,720.82	488.91	829.11	Begin Vertical Hold	
12,003.23	11,945.00	488.91	829.11	KOP, Begin 12.00°/100' Build	
12,755.76	12,422.46	968.90	825.92	LP, Hold 90.30° Inc at 359.62° Azm	
21,691.99	12,375.00	9,904.81	766.64	TD at 21691.99	

1. Geologic Formations

TVI	D of target	12,375' EOL	Pilot hole depth	NA
MD	at TD:	21,691'	Deepest expected fresh water:	400'

Formation	Formation Depth (TVD) Water/Mineral Beari from KB Target Zone?		Hazards*
Quaternary Fill	Surface	Water	
Rustler	1315	Water	
Top of Salt	1350	Salt	
Base of Salt	4817	Salt	
Lamar	5082	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	
х	Х	Not Penetrated	
Х	Х	Not Penetrated	

2. Casing Program

	Casing	Interval		Weight			SF	05.5	SF
Hole Size	From	То	Csg. Size	(lbs)	Grade	Conn.	Collapse	SF Burst	Body
13.5"	0	1340	10.75"	45.5	J55	BTC	3.41	0.83	11.73
9.875"	0	11675	7.625"	29.7	L80HP	BTC	1.14	1.15	2.09
6.75"	0	11175	5.5"	23	P110	BTC	1.91	1.99	3.27
6.75"	11175	21,691	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 500' 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 24-13 Fed 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?	Ν
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?	

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	YId ft3/ sack	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	230	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Sull.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter.	950	10.3	3.6	21.48	16	TXI Lightwieght Blend
IIILEI.	250	16.4	1.08	4.32	8	Tail: Class H
Prod	370	11.9	2.5	19	72	Lead: 50:50:10 H Blend
FIUU	1200	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 st Intermediate	0'	50%
Production	11,175'	35% OH in Lateral (KOP to EOL)

4. Pressure Control Equipment

NI	A variance is requested for the use of a diverter on the surface casing.
N	See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ту	pe	x	Tested to:
			Ann	ular	Х	3000 psi
			Blind	Ram		
9-7/8"	13-5/8"	3M	Pipe	Ram		3M
			Doubl	e Ram		JIVI
			Other*			
			Ann	ular	x	50% testing pressure
6-3/4"	13-5/8"	5M	Blind	Ram	Х	
			VBR	Ram	Х	5M
			VBR	Ram	Х	JIVI
			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.

	Formation integrity test will be performed per Onshore Order #2.				
Y	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?				
N	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	Туре	Weight	Viscosity	Water Loss	
From	То	туре	(ppg)	VISCOSILY	Water LUSS	
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

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.
Y	No Logs are planned based on well control or offset log information.
Ν	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

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

7. Drilling Conditions

Condition	Specify what type and where?			
BH Pressure at deepest TVD	7595 psi at 12375' 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 (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?
Ν	Is casing pre-set?

x	H2S Plan.
х	BOP & Choke Schematics.
х	Directional Plan



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Submission Date: 08/16/2019

PWD Data Report

06/11/2020

Operator Name: TITUS OIL AND GAS PRODUCTION LLC

Well Name: WILD SALSA 24-13 FED

Well Type: OIL WELL

APD ID: 10400045866

Well Number: 406H Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N Produced Water Disposal (PWD) Location: **PWD surface owner:** Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment:

PWD disturbance (acres):

Operator Name: TITUS OIL AND GAS PRODUCTION LLC Well Name: WILD SALSA 24-13 FED

Well Number: 406H

Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: TITUS OIL AND GAS PRODUCTION LLC Well Name: WILD SALSA 24-13 FED

Well Number: 406H

Is the reclamation bond a rider under the BLM bond?	
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
Would you like to utilize Injection PWD options? N	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	
Injection well mineral owner:	
Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	
UIC Permit attachment:	
Section 5 - Surface Discharge	
Would you like to utilize Surface Discharge PWD options? \ensuremath{N}	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Surface discharge PWD discharge volume (bbl/day):	
Surface Discharge NPDES Permit?	
Surface Discharge NPDES Permit attachment:	
Surface Discharge site facilities information:	
Surface discharge site facilities map:	
Section 6 - Other	
Would you like to utilize Other PWD options? N	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Operator Name: TITUS OIL AND GAS PRODUCTION LLC **Well Name:** WILD SALSA 24-13 FED

Well Number: 406H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



Bond Info Data Report

A A A A A

06/11/2020

APD ID: 10400045866	Submission Date: 08/16/2019	Highlighted data
Operator Name: TITUS OIL AND GAS PRODUCTION LLC		reflects the most recent changes
Well Name: WILD SALSA 24-13 FED	Well Number: 406H	Show Final Text
Well Type: OIL WELL	Well Work Type: Drill	

Bond Information

Federal/Indian APD: FED BLM Bond number: NMB001532 BIA Bond number: Do you have a reclamation bond? NO Is the reclamation bond a rider under the BLM bond? Is the reclamation bond BLM or Forest Service? BLM reclamation bond number: Forest Service reclamation bond number: Forest Service reclamation bond attachment: Reclamation bond number: Reclamation bond amount: Reclamation bond rider amount: Additional reclamation bond information attachment:
 District1

 1625 N. French Dr., Hobbs, NM 88240

 Phone: (575) 393-6161

 Fax: (575) 393-6171

 811 S. First St., Artesia, NM 88210

 Phone: (575) 748-1283 Fax: (575) 748-9720

 District III

 000 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

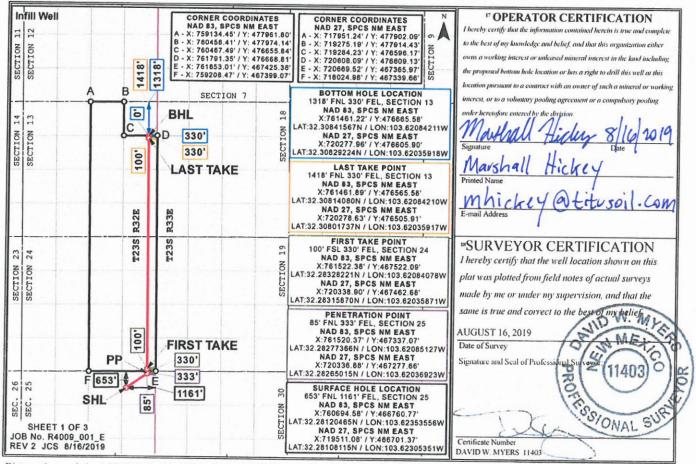
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

WC-025 G-09 S223332A;UPR WELL LOCATION AND ACREAGE DEDICATION PLAT WOLFCAMP API Number ² Pool Code 98177 ³ Pool Name 30-025-47992 XXXXXX XXXXXXXXXXXXXXXXXXX ⁴ Property Code 328507 **Property Name** Well Number WILD SALSA 24-13 FED 406H OGRID No. **Operator** Name ⁹ Elevation 373986 TITUS OIL & GAS PRODUCTION, LLC 3721' 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 1161 EAST LEA " Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Range Feet from the North/South line Feet from the East/West line County Н 13 23S 32E 1318 NORTH 330 EAST LEA 12 Dedicated Acres 13 Joint or Infill ¹⁴ Consolidation Code ⁵ Order No. 600.0

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.



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99996450 Convergence: 00°22'48.65002"

State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division COD - HOBBS

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

06/24/2020

RECEIVED

GAS CAPTURE PLAN

Date: 8/21/2019

 \boxtimes Original

Operator & OGRID No.: 373986

□ Amended - Reason for Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Loca (ULSTR)	ation	Footages	Expected MCF/D	Flared or Vented	Comments
Wild Salsa 24-13 Fed 323H		Sec 25, R32E	T23S,	653' FNL & 1236' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 324H		Sec 25, R32E	T23S,	653' FNL & 1186' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 404H		Sec 25, R32E	T23S,	653' FNL & 1261' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 405H		Sec 25, R32E	T23S,	653' FNL & 1211' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 406H 30-02	5-47992	Sec 25, R32E	T23S,	653' FNL & 1161' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 214H		Sec 25, R32E	T23S,	653' FNL & 1766' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 215H		Sec 25, R32E	T23S,	653' FNL & 706' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 216H		Sec 25, R32E	T23S,	653' FNL & 656' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 223H		Sec 25, R32E	T23S,	653' FNL & 1741' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 224H		Sec 25, R32E	T23S,	653' FNL & 681' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 094H		Sec 25, R32E	T23S,	653' FNL & 1526' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 095H		Sec 25, R32E	T23S,	653' FNL & 971' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 096H		Sec 25, R32E	T23S,	678' FNL & 971' FEL	4024	None Planned	Wild Salsa CTB will be utilized

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility is dedicated to Lucid and is connected to a Lucid high pressure gathering system located in Lea County, New Mexico. Titus provides (periodically) to Lucid a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Titus and Lucid have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at a Lucid's Red Hills Plant located in Sec 13, T24S, R33E near Jal, NM. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the well(s) start flowing through the production facilities, unless there are operational issues on Lucid's system at that time. Based on current information, it is Titus's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines