UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD - HOBBS 06/24/2020 RECEIVED

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2013

Expires:	January	31,	201

6. If Indian, Allotee or Tribe Name

5. Lease Serial No.

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: DRILL	REENTER		7. If Unit or CA Ag	greement, Name and No.
1b. Type of Well: Oil Well Gas Well	Other		8. Lease Name and	Well No.
1c. Type of Completion: Hydraulic Fracturing	Single Zone	Multiple Zone	[32850	7]
2. Name of Operator [3739	986]		9. API Well No. 3	0-025-47632
3a. Address	3b. Phone N	o. (include area code)	10. Field and Pool,	or Exploratory [17644
4. Location of Well (Report location clearly and in accord	ance with any State	requirements.*)	11. Sec., T. R. M. o	r Blk. and Survey or Area
At surface				
At proposed prod. zone				
14. Distance in miles and direction from nearest town or po	ost office*		12. County or Paris	sh 13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of ac	res in lease 17. Sp	pacing Unit dedicated to	this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposec	d Depth 20. B	LM/BIA Bond No. in file	,
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxim	mate date work will start*	23. Estimated durat	tion
	24. Attacl	hments		
The following, completed in accordance with the requirement (as applicable)	ents of Onshore Oil	and Gas Order No. 1, and t	he Hydraulic Fracturing	rule per 43 CFR 3162.3-3
Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to cover the operation Item 20 above).	ations unless covered by a	an existing bond on file (see
3. A Surface Use Plan (if the location is on National Forest SUPO must be filed with the appropriate Forest Service		5. Operator certification.6. Such other site specific i BLM.	information and/or plans a:	s may be requested by the
25. Signature	Name	(Printed/Typed)		Date
Title				
Approved by (Signature)	Name	(Printed/Typed)		Date
Title	Office			
Application approval does not warrant or certify that the ap applicant to conduct operations thereon. Conditions of approval, if any, are attached.	plicant holds legal o	or equitable title to those rig	ghts in the subject lease w	which would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 12 of the United States any false, fictitious or fraudulent staten				any department or agency
GCP Rec 06/24/2020			_	/

GCP Rec 06/24/2020

SL

APPROVED WITH CONDITIONS

Approval Date: 06/04/2020

09/02/2020

*(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 214H

SURFACE HOLE FOOTAGE: 653'/N & 1766'/E **BOTTOM HOLE FOOTAGE** 10'/N & 2310'/E

LOCATION: Section 25, T.23 S., R.32 E., NMPM

COUNTY: Lea County, New Mexico

COA

H2S	© Yes	O No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	• Low	O Medium	C High
Cave/Karst Potential	Critical Critical		
Variance	© None	• Flex Hose	Other Other
Wellhead	Conventional	O Multibowl	O 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 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.

Page 1 of 7 WILD SALSA 24-13 FEDERAL #214H

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> 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.
 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 **2000 (2M) psi**.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **3000** (**3M**) **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.
- 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 intergrity 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 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

- 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.

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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)

Page 7 of 7 WILD SALSA 24-13 FEDERAL #214H



BUREAU OF LAND MANAGEMENT

Operator Certification Data Report

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: 08/21/2019

Title: Regulatory Manager

Street Address: 420 Throckmorton Street, Suite 1150

City: Fort Worth State: TX Zip: 76102

Phone: (817)852-6370

Email address: rdelong@titusoil.com

Field Representative

Street Address:
City: State: Zip:

Phone: (432)553-3931

Representative Name:

Email address: tsmith@titusoil.com



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

Well Name: WILD SALSA 24-13 FED

Application Data Report

06/11/2020

APD ID: 10400046203 **Submission Date:** 08/22/2019

Operator Name: TITUS OIL AND GAS PRODUCTION LLC

Well Number: 214H

recent changes
Show Final Text

Highlighted data reflects the most

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

BLM Office: CARLSBAD User: Ryan DeLong Title: Regulatory Manager

Federal/Indian APD: FED Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMLC0063228 Lease Acres: 1600

Surface access agreement in place? Allotted? Reservation:

Agreement in place? NO Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? Y

Permitting Agent? NO APD Operator: TITUS OIL AND GAS PRODUCTION LLC

Operator letter of designation:

Operator Info

Operator Organization Name: TITUS OIL AND GAS PRODUCTION LLC

Operator Address: 420 Throckmorton St., Suite 1150

Zip: 76102

Operator PO Box:

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: 214H 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 Name: WILD SALSA 24-13 FED Well Number: 214H

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

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: Wild Number: 1

Salsa

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill
Well Type: OIL WELL
Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: Distance to nearest well: 25 FT Distance to lease line: 653 FT

Reservoir well spacing assigned acres Measurement: 600 Acres

Well plat: WILD_SALSA_24_13_214H_REV._2__CERTIFIED_FORM_C102_20200219135203.pdf

Well work start Date: 01/31/2020 Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

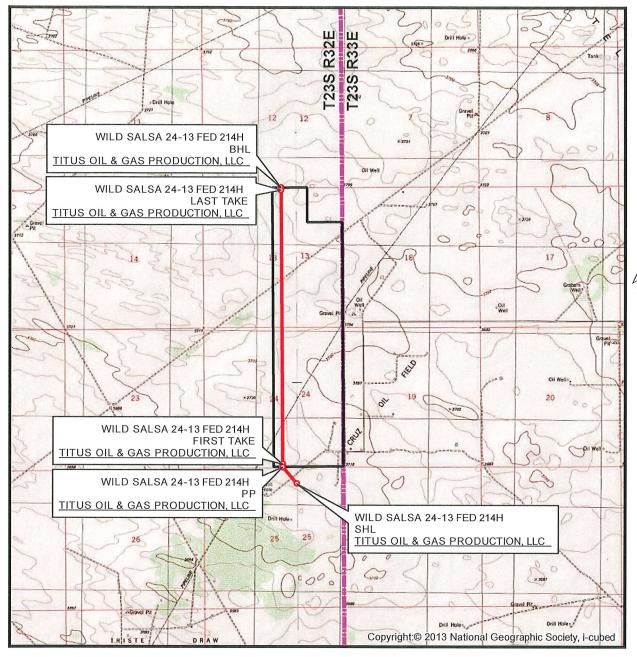
Survey number: Reference Datum: GROUND LEVEL

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	176	FEL	23S	32E	25	Tract	32.28118	-	LEA	NEW	NEW	F	NMLC0	371	0	0	Υ
Leg			6					В	4	103.6254			MEXI		063228	7			
#1										931		СО	СО						
KOP	113	FNL	231	FEL	23S	32E	25	Tract	32.56561	-	LEA	NEW	NEW	F	NMLC0	-	103	103	Υ
Leg			2					В	3	103.7186		MEXI			063228	658	48	02	
#1										41		СО	СО			5			
PPP	9	FSL	231	FEL	23S	32E	24	Tract	32.28296	-	LEA	NEW	NEW	F	NMLC0	-	107	106	Υ
Leg			3					0	44	103.6272		I	MEXI		063228	690	00	22	
#1-1										574		CO	CO			5			

Well Name: WILD SALSA 24-13 FED Well Number: 214H

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	10	FNL	231 0	FEL	23S	32E	13	Tract B	32.31199 58	- 103.6272 511	LEA	1	NEW MEXI CO	ı	NMNM 053634 4		212 91	108 22	Υ
BHL Leg #1	10	FNL	231 0	FEL	23S	32E	13	Tract B	32.31199 58	- 103.6272 511	LEA	1	NEW MEXI CO		NMNM 053634 4		212 91	108 22	Υ

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 & 1766' FEL

ELEVATION: 3717'

LEASE: WILD SALSA 24-13 FED

 $\hbox{U.s.g.s. TOPOGRAPHIC MAP: BOOTLEG RIDGE, NM.}\\$

1 " = 3,500 ' 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_F

VICINITY MAP

33	34	35 T22S R32E	36	31	32 T22S R33E	33
4	3	T23S R32E	1	6	T23S R33E	4
9		11 A 24-13 FED 214 B RODUCTION, LI	HL	7	8	9
16 <u>TITU</u>		A 24-13 FED 214 LAST TAI RODUCTION, LI	KE	18	17	16
21 TITU		A 24-13 FED 21- FIRST TA RODUCTION, L	KE	19	20	21
	WILD SALS	A 24-13 FED 21	4H PP	SHL	24-13 FED 214H GAS PRODUCTI	
28	27	RODUCTION, L	<u>LC</u>] 25	30	29	28
33	34	35 T23S R32E	36	31	³² T23S R33E	33
4	3	T24S R32E	1	6	T24S R33E	4

SEC. 25 TWP. 23-S RGE. 32-E

SURVEY: N.M.P.M. COUNTY: LEA

OPERATOR: TITUS OIL & GAS PRODUCTION, LLC

DESCRIPTION: 653' FNL & 1766' FEL

ELEVATION: 3717'

LEASE: WILD SALSA 24-13 FED

U.S.G.S. TOPOGRAPHIC MAP: BOOTLEG RIDGE, NM.



1"=1 MILE



PREPARED BY: R-SQUARED GLOBAL, LLC 1309 LOUISVILLE AVENUE, MONROE, LA 71201 318-323-6900 OFFICE JOB No. R4009_001_F



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

Drilling Plan Data Report

06/11/2020

APD ID: 10400046203 Submission Date: 08/22/2019

Operator Name: TITUS OIL AND GAS PRODUCTION LLC

Well Name: WILD SALSA 24-13 FED Well Number: 214H

Well Type: OIL WELL Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
519945	QUATERNARY	3721	0	0	ALLUVIUM	NONE	N
519946	RUSTLER	2406	1315	1315	ANHYDRITE	USEABLE WATER	N
519947	SALADO	2371	1350	1350	SALT	NONE	N
519948	BASE OF SALT	-1096	4817	4817	SALT	NONE	N
519949	LAMAR	-1361	5082	5082	LIMESTONE	NONE	N
519950	DELAWARE	-1376	5097	5097	SANDSTONE, SHALE, SILTSTONE	NONE	N
519954	BONE SPRING LIME	-5141	8862	8862	LIMESTONE	NATURAL GAS, OIL	N
519955	BONE SPRING 1ST	-6281	10002	10002	SANDSTONE	NATURAL GAS, OIL	N
519956	BONE SPRING 2ND	-6901	10622	10700	SANDSTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 2M Rating Depth: 5110

Equipment: 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.

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.

Choke Diagram Attachment:

2M Choke Diagram 20190821134204.pdf

BOP Diagram Attachment:

Well Name: WILD SALSA 24-13 FED Well Number: 214H

2M_Choke_Diagram_20190821134204.pdf

2M_BOP_Diagram_20190821134209.pdf

Pressure Rating (PSI): 3M Rating Depth: 10822

Equipment: 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.

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

Choke Diagram Attachment:

3M_Choke_Diagram_20190821134235.pdf

BOP Diagram Attachment:

3M_BOP_Diagram_20190821134241.pdf

Section 3 - Casing

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	17.5	13.375	NEW	API	N	0	1340	0	1340	3717	2377	1340	J-55	54.5	ST&C	1.84	1.25	DRY	7.04	DRY	7.04
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	5110	0	5110	3721	-1393	5110	J-55	40	LT&C	1	1	DRY	2.54	DRY	2.54
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	21291	0	10822	3721	-7105	21291	P- 110	17	LT&C	1.41	2.53	DRY	2.42	DRY	2.42

Casing Attachments

Well Name: WILD SALSA 24-13 FED Well Number: 214H
Casing Attachments
Casing ID: 1 String Type: SURFACE Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Casing_AssumptionsshallowWILD_SALSA_20190821134402.pdf
Casing ID: 2 String Type: INTERMEDIATE Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Casing_AssumptionsshallowWILD_SALSA_20190821134504.pdf
Casing ID: 3 String Type: PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Casing_AssumptionsshallowWILD_SALSA_20190821134618.pdf

Section 4 - Cement

Operator Name: TITUS OIL AND GAS PRODUCTION LLC

Well Name: WILD SALSA 24-13 FED Well Number: 214H

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	610	1.75	13.5	1067. 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	5110	970	2	12.7	1940	50	35:65:6 C Blend	N/A
INTERMEDIATE	Tail		0	5110	250	1.34	14.8	335	50	Class C	N/A
PRODUCTION	Lead		0	2129 1	800	2.5	11.9	2000	25	50:50:10 H Blend	N/A
PRODUCTION	Tail		0	2129 1	2790	1.24	14.4	3459. 6	40	50:50:2 H Blend	N/A

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 (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	HH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1340	WATER-BASED MUD	8.6	8.8							Viscosity: 28-34 (note: AFMSS field will not accept a range, nor will it accept a value greater than 25); please refer to the drilling plan PDF attached for corresponding information

Well Name: WILD SALSA 24-13 FED Well Number: 214H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1340	5110	SALT SATURATED	10	10.2							Viscosity: 28-34 (note: AFMSS field will not accept a range, nor will it accept a value greater than 25); please refer to the drilling plan PDF attached for corresponding information
5110	1082	OTHER : Cut Brine	8.6	9.4							Viscosity: 28-34 (note: AFMSS field will not accept a range, nor will it accept a value greater than 25); please refer to the drilling plan PDF attached for corresponding information

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

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5290 Anticipated Surface Pressure: 2909

Anticipated Bottom Hole Temperature(F): 165

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:

Well Name: WILD SALSA 24-13 FED Well Number: 214H

Wild_Salsa_24_13_Fed_214H_20190821135313.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Wild_Salsa_24_13_214H___Plan_1_08_15_19_AC_Report_20190821135328.pdf Wild_Salsa_24_13_214H___Plan_1_08_15_19_20190821135333.pdf

Other proposed operations facets description:

- -Flex Hose Certifications
- -Gas Capture Plan
- -Drilling Plan APD

Other proposed operations facets attachment:

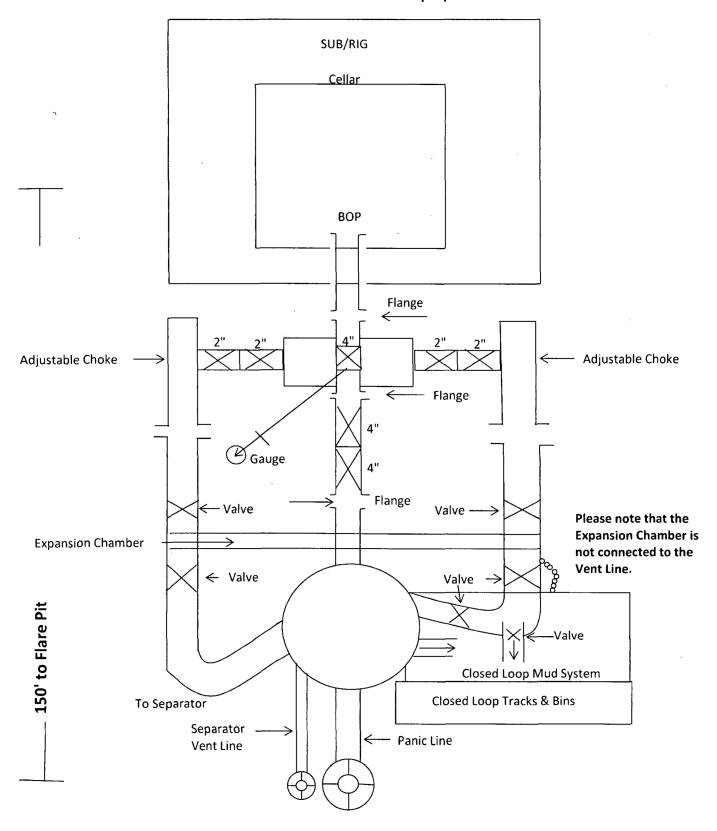
H_P_614_Flex_Hose_Certs_20190815152026.pdf

Gas_Capture_Plan_V2_WILD_SALSA_20190822133603.pdf

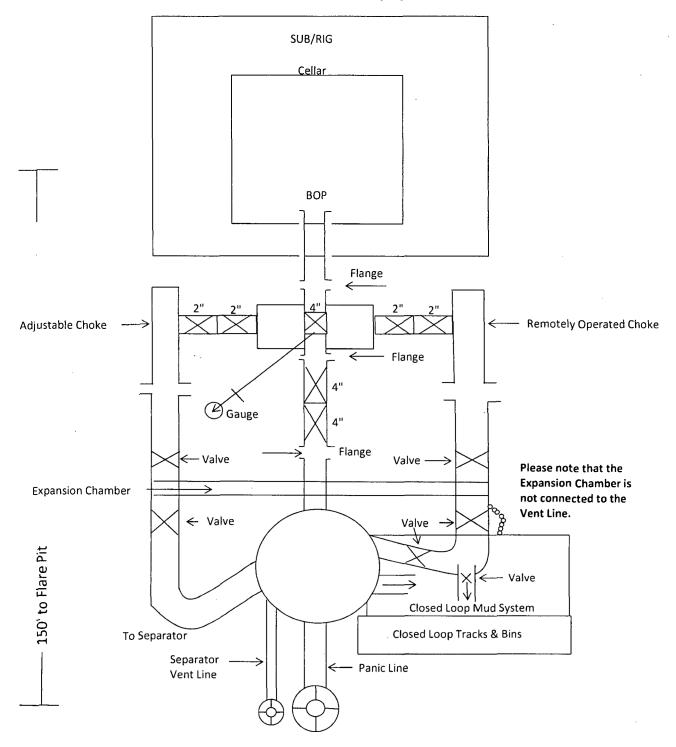
Drilling_Plan_Wild_Salsa_24_13_Fed_214H_20200518140717.pdf

Other Variance attachment:

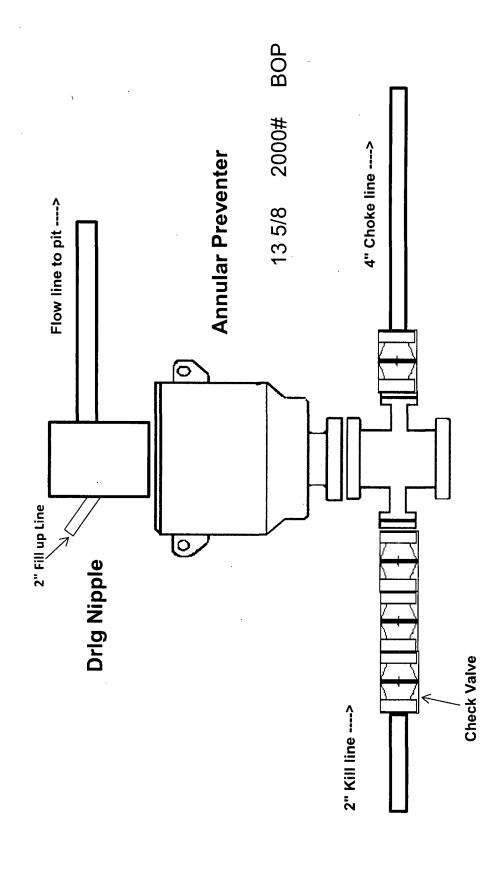
2M Choke Manifold Equipment



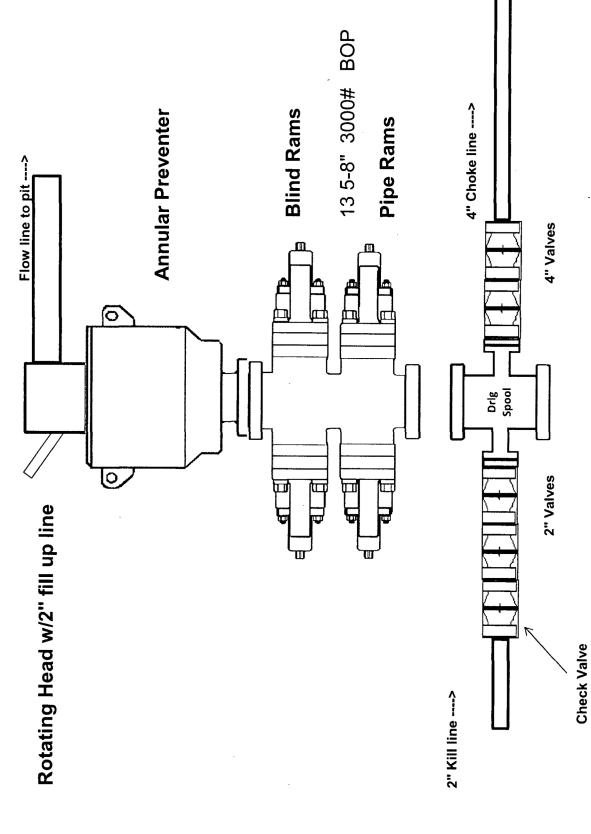
3M Choke Manifold Equipment



2,000 psi BOP Schematic



3,000 psi BOP Schematic



Wild Salsa Casing Assumptions – Titus Oil & Gas Production, LLC

- 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 a Gas Gradient 0.1 psi/ft to surface.
- All casing strings will be tested in accordance with Onshore Order 2 III.B.1.h

Wild Salsa Casing Assumptions – Titus Oil & Gas Production, LLC

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TITUS Oil & Gas Production, LLC

100 Throckmorton Street Suite 1630 Fort Worth, TX 76102

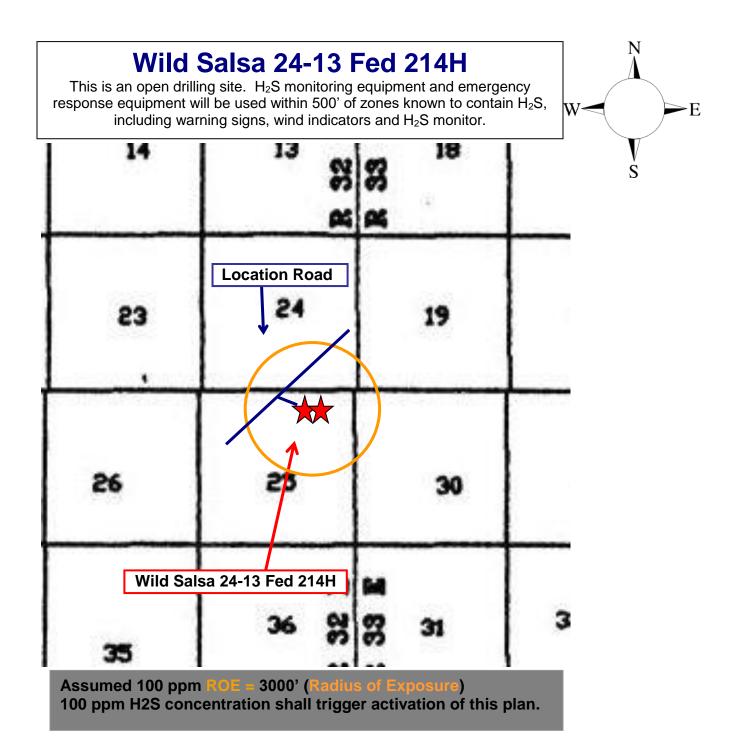
Hydrogen Sulfide (H₂S) Contingency Plan

For

Wild Salsa 24-13 Fed 214H

Sec-25 T-23S R-32E 653 FNL & 1766' FEL LAT. = 32.281198' N (NAD83) LONG = 103.625493' W

Lea County NM



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. There are no homes or buildings in or near the ROE.

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
 - 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

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	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

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)

Hydrogen Sulfide Drilling Operation Plan

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 H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S 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 H₂S.

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:

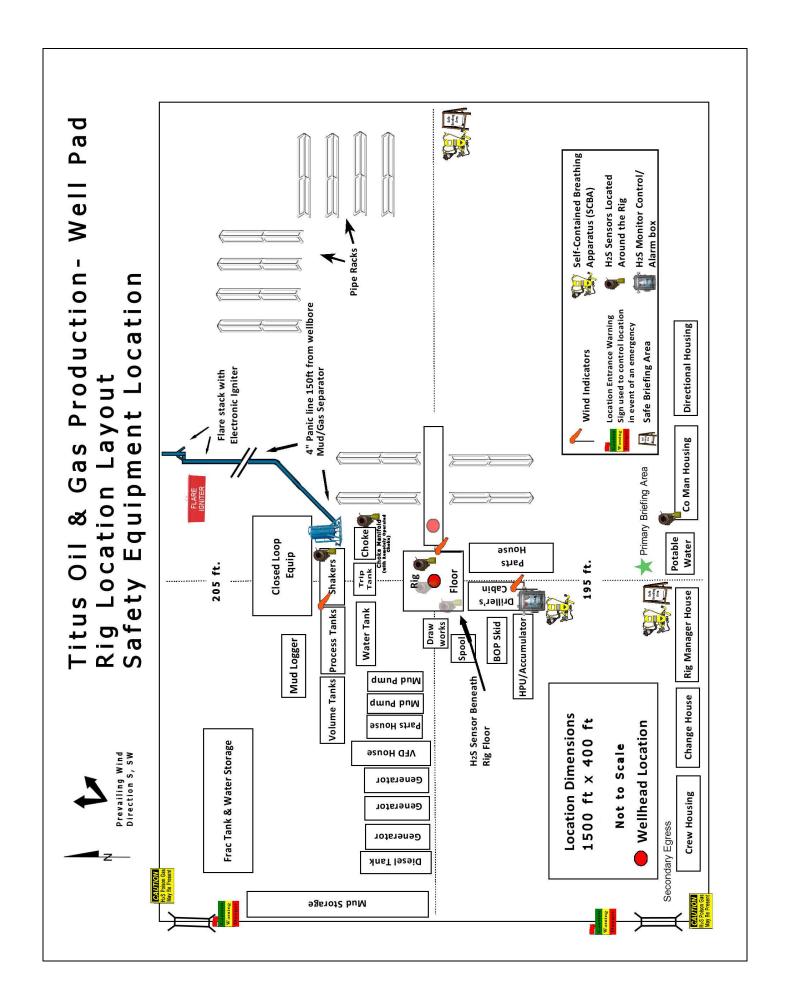
- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

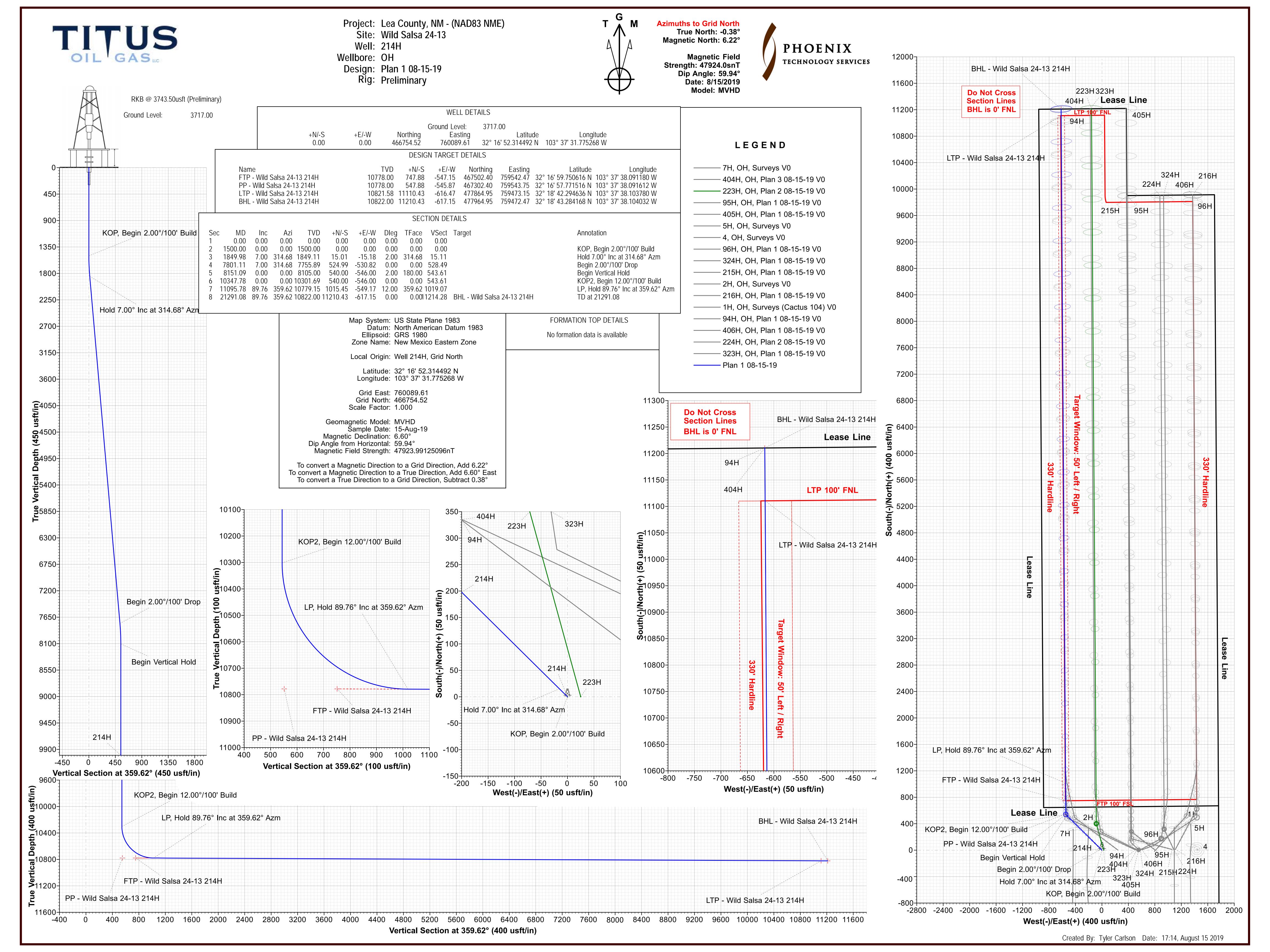
- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing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

Drillina Su	pervisor –					
Ryan DeL						
	J					
Agency	<u>' Call List</u>					
<u>Lea</u>	Hobbs					
County	Lea County Communication Authority	393-3981				
<u>(575)</u>	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				
Eddy	Carlsbad					
County (575)	State Police	885-3137				
<u>(575)</u>	City Police	885-2111				
	Sheriff's Office	887-7551				
	Ambulance	911				
	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					





Titus Oil & Gas Cont. Plan - Page 8





Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME) Wild Salsa 24-13 214H

OH

Plan: Plan 1 08-15-19

Standard Planning Report

15 August, 2019







Database: USA Compass

Company: Titus Oil & Gas Production, LLC
Project: Lea County, NM - (NAD83 NME)

Site: Wild Salsa 24-13

Well: 214H Wellbore: OH

Design: Plan 1 08-15-19

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 214H

RKB @ 3743.50usft (Preliminary) RKB @ 3743.50usft (Preliminary)

359.62

Grid

Minimum Curvature

Project Lea County, NM - (NAD83 NME)

Map System: US State Plane 1983 System Datum: Mean Sea Level

Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

Site Wild Salsa 24-13

 Site Position:
 Northing:
 466,759.47 usft
 Latitude:
 32° 16' 52.363056 N

 From:
 Lat/Long
 Easting:
 760,096.73 usft
 Longitude:
 103° 37' 31.692000 W

Position Uncertainty: 1.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.38 °

Well 214H

 Well Position
 +N/-S
 -4.95 usft
 Northing:
 466,754.52 usft
 Latitude:
 32° 16' 52.314492 N

 +E/-W
 -7.12 usft
 Easting:
 760,089.61 usft
 Longitude:
 103° 37' 31.775268 W

Position Uncertainty

0.00 usft

Wellhead Elevation:

Ground Level:

3,717.00 usft

Wellbore ОН **Model Name** Magnetics Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) 8/15/2019 47.923.99125095 **MVHD** 6.60 59.94

Plan 1 08-15-19 Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°)

0.00

0.00

Plan Survey Tool Program Date 8/15/2019

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

0.00

1 0.00 21,290.97 Plan 1 08-15-19 (OH) MWD+HRGM

OWSG MWD + HRGM

Plan Sections Vertical Dogleg Build Measured Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate **TFO** (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°) (°) (usft) (usft) (°) 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 1,849.98 7.00 314.68 1,849.11 15.01 -15.18 2.00 2.00 0.00 314.68 7.801.11 7.00 314.68 7.755.89 524.99 -530.82 0.00 0.00 0.00 0.00 8,105.00 540.00 -546.00 2.00 -2.00 0.00 180.00 8,151.09 0.00 0.00 10,347.78 0.00 0.00 10,301.69 540.00 -546.00 0.00 0.00 0.00 0.00 11,095.78 89.76 359.62 10,779.15 1,015.45 -549.17 12.00 12.00 -0.05 359.62 21,291.08 89.76 359.62 10,822.00 11,210.43 -617.15 0.00 0.00 0.00 0.00 BHL - Wild Salsa 24-1





Database: USA Compass

Company: Titus Oil & Gas Production, LLC
Project: Lea County, NM - (NAD83 NME)

Site: Wild Salsa 24-13

Well: 214H Wellbore: OH

Design: Plan 1 08-15-19

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 214H

RKB @ 3743.50usft (Preliminary) RKB @ 3743.50usft (Preliminary)

Grid

ned Survey									
nou our roy									
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, Begi	n 2.00°/100' Build								
1,600.00	2.00	314.68	1,599.98	1.23	-1.24	1.24	2.00	2.00	0.00
1,700.00		314.68	1,699.84	4.91	-4.96	4.94	2.00	2.00	0.00
1,800.00	6.00	314.68	1,799.45	11.04	-11.16	11.11	2.00	2.00	0.00
1,849.98	7.00	314.68	1,849.11	15.01	-15.18	15.11	2.00	2.00	0.00
Hold 7.00°	Inc at 314.68° Azn	n							
1,900.00	7.00	314.68	1,898.76	19.30	-19.51	19.43	0.00	0.00	0.00
2,000.00		314.68	1,998.01	27.87	-28.18	28.06	0.00	0.00	0.00
2,100.00		314.68	2,097.27	36.44	-36.84	36.68	0.00	0.00	0.00
2,200.00	7.00	314.68	2,196.52	45.01	-45.51	45.31	0.00	0.00	0.00
2,300.00	7.00	314.68	2,295.78	53.58	-54.17	53.94	0.00	0.00	0.00
2,400.00		314.68	2,395.03	62.15	-62.84	62.56	0.00	0.00	0.00
2,500.00		314.68	2,494.29	70.72	-71.50	71.19	0.00	0.00	0.00
2,600.00	7.00	314.68	2,593.54	79.29	-80.17	79.82	0.00	0.00	0.00
2,700.00	7.00	314.68	2,692.79	87.85	-88.83	88.44	0.00	0.00	0.00
2,800.00	7.00	314.68	2,792.05	96.42	-97.50	97.07	0.00	0.00	0.00
2,900.00		314.68	2,891.30	104.99	-106.16	105.70	0.00	0.00	0.00
3,000.00		314.68	2,990.56	113.56	-114.82	114.32	0.00	0.00	0.00
3,100.00		314.68	3,089.81	122.13	-123.49	122.95	0.00	0.00	0.00
3,200.00	7.00	314.68	3,189.07	130.70	-132.15	131.58	0.00	0.00	0.00
3,300.00	7.00	314.68	3.288.32	139.27	-140.82	140.20	0.00	0.00	0.00
3,400.00		314.68	3,387.58	147.84	-149.48	148.83	0.00	0.00	0.00
3,500.00		314.68	3,486.83	156.41	-158.15	157.45	0.00	0.00	0.00
3,600.00		314.68	3,586.09	164.98	-166.81	166.08	0.00	0.00	0.00
3,700.00		314.68	3,685.34	173.55	-175.48	174.71	0.00	0.00	0.00
3,800.00	7.00	314.68	3,784.60	182.12	-184.14	183.33	0.00	0.00	0.00
3,900.00		314.68	3,883.85	190.69	-192.81	191.96	0.00	0.00	0.00
4,000.00		314.68	3,983.11	199.26	-201.47	200.59	0.00	0.00	0.00
4,100.00		314.68	4,082.36	207.83	-210.13	209.21	0.00	0.00	0.00
4,200.00		314.68	4,181.62	216.39	-218.80	217.84	0.00	0.00	0.00
4,300.00		314.68	4,280.87	224.96	-227.46	226.47	0.00	0.00	0.00
4,400.00		314.68	4,380.12 4,479.38	233.53	-236.13 -244.79	235.09 243.72	0.00	0.00 0.00	0.00
4,500.00 4,600.00		314.68 314.68	4,479.38	242.10 250.67	-244.79 -253.46	243.72 252.35	0.00 0.00	0.00	0.00 0.00
4,700.00		314.68	4,677.89	259.24	-262.12	260.97	0.00	0.00	0.00
4,800.00		314.68	4,777.14	267.81	-270.79	269.60	0.00	0.00	0.00
4,900.00		314.68	4,876.40 4,975.65	276.38	-279.45	278.23	0.00	0.00	0.00
5,000.00 5,100.00		314.68 314.68	4,975.65 5,074.91	284.95 293.52	-288.12 -296.78	286.85 295.48	0.00 0.00	0.00 0.00	0.00 0.00
5,100.00		314.68	5,074.91 5,174.16	302.09	-296.78 -305.44	295.48 304.11	0.00	0.00	0.00
5,300.00		314.68	5,273.42	310.66	-314.11	312.73	0.00	0.00	0.00
5,400.00		314.68	5,372.67	319.23	-322.77	321.36	0.00	0.00	0.00
5,500.00		314.68	5,471.93	327.80	-331.44	329.99	0.00	0.00	0.00
5,600.00		314.68	5,571.18	336.37	-340.10	338.61	0.00	0.00	0.00
5,700.00	7.00	314.68	5,670.44	344.93	-348.77	347.24	0.00	0.00	0.00
5,800.00		314.68	5,769.69	353.50	-357.43	355.87	0.00	0.00	0.00
5,900.00	7.00	314.68	5,868.94	362.07	-366.10	364.49	0.00	0.00	0.00
6,000.00		314.68	5,968.20	370.64	-374.76	373.12	0.00	0.00	0.00
6,100.00		314.68	6,067.45	379.21	-383.43	381.75	0.00	0.00	0.00
6,200.00	7.00	314.68	6,166.71	387.78	-392.09	390.37	0.00	0.00	0.00
6,300.00	7.00	314.68	6,265.96	396.35	-400.75	399.00	0.00	0.00	0.00





Database: USA Compass

Company: Titus Oil & Gas Production, LLC
Project: Lea County, NM - (NAD83 NME)

Site: Wild Salsa 24-13

Well: 214H Wellbore: OH

Design: Plan 1 08-15-19

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 214H

RKB @ 3743.50usft (Preliminary) RKB @ 3743.50usft (Preliminary)

Grid

Measured Depth	Inclination	A =:4b	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	Inclination (°)	Azimuth (°)	(usft)	+N/-S (usft)	+E/-VV (usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
6,400.00	7.00	314.68	6,365.22	404.92	-409.42	407.63	0.00	0.00	0.00
6,500.00	7.00	314.68	6,464.47	413.49	-418.08	416.25	0.00	0.00	0.00
6,600.00	7.00	314.68	6,563.73	422.06	-426.75	424.88	0.00	0.00	0.00
6,700.00	7.00	314.68	6,662.98	430.63	-435.41	433.51	0.00	0.00	0.00
6,800.00	7.00	314.68	6,762.24	439.20	-444.08	442.13	0.00	0.00	0.00
6,900.00	7.00	314.68	6,861.49	447.77	-452.74	450.76	0.00	0.00	0.00
7,000.00	7.00	314.68	6,960.75	456.34	-461.41	459.39	0.00	0.00	0.00
7,100.00	7.00	314.68	7,060.00	464.91	-470.07	468.01	0.00	0.00	0.00
7,200.00	7.00	314.68	7,159.26	473.47	-478.74	476.64	0.00	0.00	0.00
7,300.00	7.00	314.68	7,258.51	482.04	-487.40	485.27	0.00	0.00	0.00
7,400.00	7.00	314.68	7,357.77	490.61	-496.06	493.89	0.00	0.00	0.00
7,500.00	7.00	314.68	7,457.02	499.18	-504.73	502.52	0.00	0.00	0.00
7,600.00	7.00	314.68	7,556.27	507.75	-513.39	511.15	0.00	0.00	0.00
7,700.00	7.00	314.68	7,655.53	516.32	-522.06	519.77	0.00	0.00	0.00
7,800.00	7.00	314.68	7,754.78	524.89	-530.72	528.40	0.00	0.00	0.00
7,801.11	7.00	314.68	7,755.89	524.99	-530.82	528.49	0.00	0.00	0.00
Begin 2.00°/	•								
7,900.00	5.02	314.68	7,854.23	532.27	-538.18	535.82	2.00	-2.00	0.00
8,000.00	3.02	314.68	7,953.98	537.20	-543.17	540.79	2.00	-2.00	0.00
8,100.00	1.02	314.68	8,053.91	539.68	-545.68	543.29	2.00	-2.00	0.00
8,151.09	0.00	314.68	8,105.00	540.00	-546.00	543.61	2.00	-2.00	0.00
Begin Vertic									
10,347.78	0.00	0.00	10,301.69	540.00	-546.00	543.61	0.00	0.00	0.00
	n 12.00°/100' Bui								
10,400.00	6.27	359.62	10,353.80	542.85	-546.02	546.46	12.00	12.00	0.00
10,500.00	18.27	359.62	10,451.34	564.06	-546.16	567.67	12.00	12.00	0.00
10,600.00	30.27	359.62	10,542.34	605.08	-546.43	608.69	12.00	12.00	0.00
10,700.00	42.27	359.62	10,622.82	664.12	-546.83	667.73	12.00	12.00	0.00
10,800.00	54.27	359.62	10,689.27	738.61	-547.32	742.22	12.00	12.00	0.00
10,900.00	66.27	359.62	10,738.77	825.28	-547.90	828.90	12.00	12.00	0.00
11,000.00	78.27	359.62	10,769.18	920.35	-548.54	923.97	12.00	12.00	0.00
11,095.78	89.76	359.62	10,779.15	1,015.45	-549.17	1,019.07	12.00	12.00	0.00
LP, Hold 89.	76° Inc at 359.62	2° Azm							
11,100.00	89.76	359.62	10,779.17	1,019.67	-549.20	1,023.29	0.00	0.00	0.00
11,200.00	89.76	359.62	10,779.59	1,119.67	-549.86	1,123.29	0.00	0.00	0.00
11,300.00	89.76	359.62	10,780.01	1,219.66	-550.53	1,223.29	0.00	0.00	0.00
11,400.00	89.76	359.62	10,780.43	1,319.66	-551.20	1,323.29	0.00	0.00	0.00
11,500.00	89.76	359.62	10,780.85	1,419.66	-551.87	1,423.29	0.00	0.00	0.00
11,600.00	89.76	359.62	10,781.27	1,519.65	-552.53	1,523.29	0.00	0.00	0.00
11,700.00	89.76	359.62	10,781.69	1,619.65	-553.20	1,623.28	0.00	0.00	0.00
11,800.00	89.76	359.62	10,782.11	1,719.65	-553.87	1,723.28	0.00	0.00	0.00
11,900.00	89.76	359.62	10,782.53	1,819.64	-554.53	1,823.28	0.00	0.00	0.00
12,000.00	89.76	359.62	10,782.95	1,919.64	-555.20	1,923.28	0.00	0.00	0.00
12,100.00	89.76	359.62	10,783.37	2,019.64	-555.87	2,023.28	0.00	0.00	0.00
12,200.00	89.76	359.62	10,783.79	2,119.64	-556.53	2,123.28	0.00	0.00	0.00
12,300.00	89.76	359.62	10,784.21	2,219.63	-557.20	2,223.28	0.00	0.00	0.00
12,400.00	89.76	359.62	10,784.63	2,319.63	-557.87	2,323.28	0.00	0.00	0.00
12,500.00	89.76	359.62	10,785.05	2,419.63	-558.53	2,423.28	0.00	0.00	0.00
12,600.00	89.76	359.62	10,785.47	2,519.62	-559.20	2,523.28	0.00	0.00	0.00
12,700.00	89.76	359.62	10,785.89	2,619.62	-559.87	2,623.28	0.00	0.00	0.00
12,800.00	89.76	359.62	10,786.31	2,719.62	-560.53	2,723.27	0.00	0.00	0.00
12,900.00	89.76	359.62	10,786.73	2,819.61	-561.20	2,823.27	0.00	0.00	0.00
13,000.00	89.76	359.62	10,787.15	2,919.61	-561.87	2,923.27	0.00	0.00	0.00





Database: USA Compass

Company: Titus Oil & Gas Production, LLC
Project: Lea County, NM - (NAD83 NME)

Site: Wild Salsa 24-13

Well: 214H Wellbore: OH

Design: Plan 1 08-15-19

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 214H

RKB @ 3743.50usft (Preliminary) RKB @ 3743.50usft (Preliminary)

Grid

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)
13,100.00	89.76	359.62	10,787.57	3,019.61	-562.53	3,023.27	0.00	0.00	0.00
13,200.00	89.76	359.62	10,787.99	3,119.60	-563.20	3,123.27	0.00	0.00	0.00
13,300.00	89.76	359.62	10,788.41	3,219.60	-563.87	3,223.27	0.00	0.00	0.00
13,400.00	89.76	359.62	10,788.84	3,319.60	-564.53	3,323.27	0.00	0.00	0.00
13,500.00	89.76	359.62	10,789.26	3,419.60	-565.20	3,423.27	0.00	0.00	0.00
13,600.00	89.76	359.62	10,789.68	3,519.59	-565.87	3,523.27	0.00	0.00	0.00
13,700.00	89.76	359.62	10,790.10	3,619.59	-566.53	3,623.27	0.00	0.00	0.00
13,800.00	89.76	359.62	10,790.52	3,719.59	-567.20	3,723.27	0.00	0.00	0.00
13,900.00	89.76	359.62	10,790.94	3,819.58	-567.87	3,823.26	0.00	0.00	0.00
14,000.00	89.76	359.62	10,791.36	3,919.58	-568.53	3,923.26	0.00	0.00	0.00
14,100.00	89.76	359.62	10,791.78	4,019.58	-569.20	4,023.26	0.00	0.00	0.00
14,200.00	89.76	359.62	10,792.20	4,119.57	-569.87	4,123.26	0.00	0.00	0.00
14,300.00	89.76	359.62	10,792.62	4,219.57	-570.53	4,223.26	0.00	0.00	0.00
14,400.00	89.76	359.62	10,793.04	4,319.57	-571.20	4,323.26	0.00	0.00	0.00
14,500.00	89.76	359.62	10,793.46	4,419.56	-571.87	4,423.26	0.00	0.00	0.00
14,600.00	89.76	359.62	10,793.88	4,519.56	-572.53	4,523.26	0.00	0.00	0.00
14,700.00	89.76	359.62	10,794.30	4,619.56	-573.20	4,623.26	0.00	0.00	0.00
14,800.00	89.76	359.62	10,794.72	4,719.55	-573.87	4,723.26	0.00	0.00	0.00
14,900.00	89.76	359.62	10,795.14	4,819.55	-574.53	4,823.26	0.00	0.00	0.00
15,000.00	89.76	359.62	10,795.56	4,919.55	-575.20	4,923.26	0.00	0.00	0.00
15,100.00	89.76	359.62	10,795.98	5,019.55	-575.87	5,023.25	0.00	0.00	0.00
15,200.00	89.76	359.62	10,796.40	5,119.54	-576.53	5,123.25	0.00	0.00	0.00
15,300.00	89.76	359.62	10,796.82	5,219.54	-577.20	5,223.25	0.00	0.00	0.00
15,400.00	89.76	359.62	10,797.24	5,319.54	-577.87	5,323.25	0.00	0.00	0.00
15,500.00	89.76	359.62	10,797.66	5,419.53	-578.53	5,423.25	0.00	0.00	0.00
15,600.00	89.76	359.62	10,798.08	5,519.53	-579.20	5,523.25	0.00	0.00	0.00
15,700.00	89.76	359.62	10,798.50	5,619.53	-579.87	5,623.25	0.00	0.00	0.00
15,800.00	89.76	359.62	10,798.92	5,719.52	-580.53	5,723.25	0.00	0.00	0.00
15,900.00	89.76 89.76	359.62 359.62	10,799.34 10,799.76	5,819.52	-581.20 -581.87	5,823.25 5,923.25	0.00 0.00	0.00 0.00	0.00 0.00
16,000.00				5,919.52					
16,100.00	89.76	359.62	10,800.18	6,019.51	-582.54	6,023.25	0.00	0.00	0.00
16,200.00	89.76	359.62	10,800.60	6,119.51	-583.20	6,123.24	0.00	0.00	0.00
16,300.00	89.76	359.62	10,801.02	6,219.51	-583.87	6,223.24	0.00	0.00	0.00
16,400.00	89.76	359.62	10,801.44	6,319.51	-584.54	6,323.24	0.00	0.00	0.00
16,500.00	89.76	359.62	10,801.86	6,419.50	-585.20	6,423.24	0.00	0.00	0.00
16,600.00	89.76	359.62	10,802.28	6,519.50	-585.87	6,523.24	0.00	0.00	0.00
16,700.00	89.76	359.62	10,802.70	6,619.50	-586.54	6,623.24	0.00	0.00	0.00
16,800.00	89.76	359.62	10,803.12	6,719.49	-587.20	6,723.24	0.00	0.00	0.00
16,900.00	89.76	359.62	10,803.55	6,819.49	-587.87	6,823.24	0.00	0.00	0.00
17,000.00	89.76	359.62	10,803.97	6,919.49	-588.54	6,923.24	0.00	0.00	0.00
17,100.00	89.76	359.62	10,804.39	7,019.48	-589.20	7,023.24	0.00	0.00	0.00
17,200.00	89.76	359.62	10,804.81	7,119.48	-589.87	7,123.24	0.00	0.00	0.00
17,300.00	89.76	359.62	10,805.23	7,219.48	-590.54	7,223.23	0.00	0.00	0.00
17,400.00	89.76	359.62	10,805.65	7,319.47	-591.20	7,323.23	0.00	0.00	0.00
17,500.00	89.76	359.62	10,806.07	7,419.47	-591.87	7,423.23	0.00	0.00	0.00
17,600.00	89.76	359.62	10,806.49	7,519.47	-592.54	7,523.23	0.00	0.00	0.00
17,700.00	89.76	359.62	10,806.91	7,619.46	-593.20	7,623.23	0.00	0.00	0.00
17,800.00	89.76	359.62	10,807.33	7,719.46	-593.87	7,723.23	0.00	0.00	0.00
17,900.00	89.76	359.62	10,807.75	7,819.46	-594.54	7,823.23	0.00	0.00	0.00
18,000.00	89.76	359.62	10,808.17	7,919.46	-595.20	7,923.23	0.00	0.00	0.00
18,100.00	89.76	359.62	10,808.59	8,019.45	-595.87	8,023.23	0.00	0.00	0.00
18,200.00	89.76	359.62	10,809.01	8,119.45	-595.6 <i>1</i> -596.54	8,123.23	0.00	0.00	0.00
18,300.00	89.76	359.62	10,809.43	8,219.45	-597.20	8,223.23	0.00	0.00	0.00
				,					
18,400.00	89.76	359.62	10,809.85	8,319.44	-597.87	8,323.23	0.00	0.00	0.00





Database: USA Compass

Company: Titus Oil & Gas Production, LLC
Project: Lea County, NM - (NAD83 NME)

Site: Wild Salsa 24-13

Well: 214H Wellbore: OH

Design: Plan 1 08-15-19

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 214H

RKB @ 3743.50usft (Preliminary) RKB @ 3743.50usft (Preliminary)

Grid

lanned 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)
18,500.00	89.76	359.62	10,810.27	8,419.44	-598.54	8,423.22	0.00	0.00	0.00
18,600.00 18,700.00 18,800.00 18,900.00	89.76 89.76 89.76 89.76	359.62 359.62 359.62 359.62	10,810.69 10,811.11 10,811.53 10,811.95	8,519.44 8,619.43 8,719.43 8,819.43	-599.20 -599.87 -600.54 -601.20	8,523.22 8,623.22 8,723.22 8,823.22	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	89.76	359.62	10,812.37	8,919.42	-601.87	8,923.22	0.00	0.00	0.00
19,100.00 19,200.00 19,300.00 19,400.00 19,500.00	89.76 89.76 89.76 89.76	359.62 359.62 359.62 359.62 359.62	10,812.79 10,813.21 10,813.63 10,814.05 10,814.47	9,019.42 9,119.42 9,219.42 9,319.41 9,419.41	-602.54 -603.20 -603.87 -604.54 -605.20	9,023.22 9,123.22 9,223.22 9,323.22 9,423.22	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
19,600.00 19,700.00 19,800.00 19,900.00 20,000.00	89.76 89.76 89.76 89.76 89.76	359.62 359.62 359.62 359.62 359.62	10,814.89 10,815.31 10,815.73 10,816.15 10,816.57	9,519.41 9,619.40 9,719.40 9,819.40 9,919.39	-605.87 -606.54 -607.20 -607.87 -608.54	9,523.21 9,623.21 9,723.21 9,823.21 9,923.21	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
20,100.00 20,200.00 20,300.00 20,400.00 20,500.00	89.76 89.76 89.76 89.76 89.76	359.62 359.62 359.62 359.62 359.62	10,816.99 10,817.41 10,817.83 10,818.26 10,818.68	10,019.39 10,119.39 10,219.38 10,319.38 10,419.38	-609.20 -609.87 -610.54 -611.20 -611.87	10,023.21 10,123.21 10,223.21 10,323.21 10,423.21	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
20,600.00 20,700.00 20,800.00 20,900.00 21,000.00 21,100.00 21,200.00 21,291.08	89.76 89.76 89.76 89.76 89.76 89.76 89.76	359.62 359.62 359.62 359.62 359.62 359.62 359.62	10,819.10 10,819.52 10,819.94 10,820.36 10,820.78 10,821.20 10,821.62 10,822.00	10,519.37 10,619.37 10,719.37 10,819.37 10,919.36 11,019.36 11,119.36 11,210.43	-612.54 -613.21 -613.87 -614.54 -615.21 -615.87 -616.54 -617.15	10,523.21 10,623.21 10,723.20 10,823.20 10,923.20 11,023.20 11,123.20 11,214.28	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 0.00 0.00 0.00 0.00 0.00 0.00

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
PP - Wild Salsa 24-13 2 ⁻¹ - plan misses target - Point	0.00 center by 191		10,778.00 1716.58usft N	547.88 MD (10634.90	-545.87 TVD, 675.49 I	467,302.40 N, -546.90 E)	759,543.74	32° 16' 57.771516 N 10	03° 37' 38.091612 W
FTP - Wild Salsa 24-13 : - plan misses target - Point			10,778.00 52.16usft M	747.88 D (10717.35 T	-547.15 VD, 782.52 N	467,502.40 , -547.62 E)	759,542.46	32° 16' 59.750616 N 1	03° 37' 38.091180 W
LTP - Wild Salsa 24-13 2 - plan misses target - Rectangle (sides W	center by 0.01	usft at 2119		11,110.44 (10821.58 TV	-616.47 D, 11110.43 N	477,864.95 I, -616.48 E)	759,473.15	32° 18' 42.294636 N 10	03° 37' 38.103780 W
BHL - Wild Salsa 24-13 : - plan hits target cen - Point		0.00	10,822.00	11,210.43	-617.15	477,964.95	759,472.47	32° 18' 43.284168 N 10	03° 37' 38.104032 W





Database: USA Compass

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Local Co-ordinate Reference:

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Survey Calculation Method:

Well 214H

RKB @ 3743.50usft (Preliminary) RKB @ 3743.50usft (Preliminary)

Grid

Plan Annotations					
Measured	Vertical	Local Coor	dinates		
Depth	Depth	+N/-S	+E/-W		
(usft)	(usft)	(usft)	(usft)	Comment	
1,500.00	1,500.00	0.00	0.00	KOP, Begin 2.00°/100' Build	
1,849.98	1,849.11	15.01	-15.18	Hold 7.00° Inc at 314.68° Azm	
7,801.11	7,755.89	524.99	-530.82	Begin 2.00°/100' Drop	
8,151.09	8,105.00	540.00	-546.00	Begin Vertical Hold	
10,347.78	10,301.69	540.00	-546.00	KOP2, Begin 12.00°/100' Build	
11,095.78	10,779.15	1,015.45	-549.17	LP, Hold 89.76° Inc at 359.62° Azm	
21,291.08	10,822.00	11,210.43	-617.15	TD at 21291.08	

1. Geologic Formations

TVD of target	10,822' EOL	Pilot hole depth	NA
MD at TD:	21,291'	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	5082	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	Target Oil/Gas	
3rd Bone Spring Sand	11900	Not Penetrated	
Wolfcamp	12208	Not Penetrated	
X	Χ	Not Penetrated	
X	X	Not Penetrated	
Χ	X	Not Penetrated	

2. Casing Program

Hole Size		g Interval	Csg. Size	j	Weight Grade C		SF	SF Burst	SF
11010 0120	From	То	oog. o.z.	(lbs)	O. aao	•	Collapse	or Barot	Tension
17.5"	0	1340	13.375"	54.5	J55	STC	1.84	1.25	7.04
12.25"	0	5110	9.625"	40	J55	LTC	0.95	0.94	2.54
8.75"	0	21,291	5.5"	17	P110	LTC	1.41	2.53	2.42
				BLM Minimu	m 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

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

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	610	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Suri.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter.	970	12.7	2.0	9.6	16	Lead: 35:65:6 C Blend
mer.	250	14.8	1.34	6.34	8	Tail: Class C
5.5 Prod	800	11.9	2.5	19	72	Lead: 50:50:10 H Blend
5.5 P100	2790	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	4,610'	25% OH in Lateral (KOP to EOL) – 40% OH in Vertical

4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		x	Tested to:	
			Ann	ular	Χ	2000 psi	
			Blind	Ram			
12-1/4"	13-5/8"	2M	Pipe Ram			2M	
			Double Ram				
			Other*				
			Ann	ular	х	50% testing pressure	
8-3/4"	13-5/8"	3M	-5/8" 3M	13-5/8" 3M Blind Ram	Ram	Х	
			Pipe		Χ	3М	
			Double Ram			SIVI	
			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.

	Formation integrity test will be performed per Onshore Order #2.
Х	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.
Υ	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	Type	Weight	Viceosity	Water Loss	
From	То	Type	(ppg)	Viscosity		
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
What will be used to monitor the loss of gain of haid:	1 V 1/1 door, vioual 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.				
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			
Υ	CBL	Production casing (If cement not circulated to surface)			
Υ	Mud log	Intermediate shoe to TD			
N	PEX				

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5290 psi at 10822' TVD
Abnormal Temperature	NO 165 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.

$\mathbf{D}_{\mathbf{L}}$	2111.
N	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

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

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



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

PWD Data Report

PWD disturbance (acres):

APD ID: 10400046203 **Submission Date:** 08/22/2019

Operator Name: TITUS OIL AND GAS PRODUCTION LLC

Well Name: WILD SALSA 24-13 FED Well Number: 214H
Well Type: OIL WELL 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:

Operator Name: TITUS OIL AND GAS PRODUCTION LLC

Well Name: WILD SALSA 24-13 FED Well Number: 214H

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: 214H

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? 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: 214H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



APD ID: 10400046203

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

Bond Info Data Report

Submission Date: 08/22/2019

Operator Name: TITUS OIL AND GAS PRODUCTION LLC

Well Name: WILD SALSA 24-13 FED Well Number: 214H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

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:

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

В

12 Dedicated Acres

600.0

13

Joint or Infill

23S

32E

Consolidation Code

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

LEA

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 1	API Numbe	Pool Code Pool Name									
				17644		DIAMONDTAIL; BONE S				SPRING	
4 Property	⁴ Property Code ⁵ Property Name						6 1	Well Number			
32850	'			W	ILD SALSA	24-13 FED				214H	
7 OGRID					⁸ Operator	Name				9 Elevation	
37398	36		TITUS OIL & GAS PRODUCTION, LLC					3717'			
	¹⁰ Surface Location										
UL or lot no.	Section	Township Range Lot Idn Feet from the North/South line Feet from the East.					t/West line	County			
В	25	23S	3S 32E 653 NORTH 1766 EAST					ST	LEA		
	¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	riship Range Lot Idn Feet from the North/South line Feet from the East/						t/West line	County	

NORTH

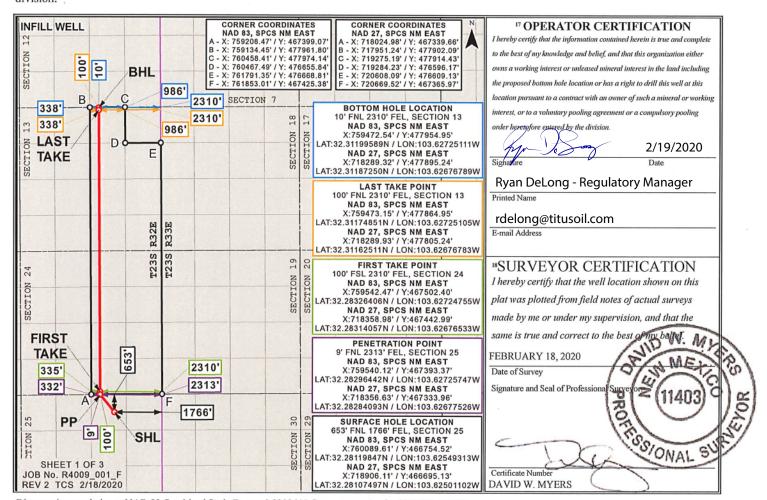
2310

EAST

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.

10

Order No.



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 OCD - HOBBS 06/24/2020 RECEIVED

GAS CAPTURE PLAN

Date: 8/21/2019		
⊠ 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 Location (ULSTR)		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		Sec 25, R32E	T23S,	653' FNL & 1161' FEL	4024	None Planned	Wild Salsa CTB will be utilized
Wild Salsa 24-13 Fed 214H 30-025	-47632	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
 - o Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - o 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