

Well Name: EL CAMPEON FED COM	Well Location: T26S / R35E / SEC 20 / TR P / 32.0224209 / -103.3828133	County or Parish/State: LEA / NM
Well Number: 214H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM126974	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548108	Well Status: Drilling Well	Operator: TITUS OIL AND GAS PRODUCTION LLC

Notice of Intent

Sundry ID: 2633597

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 09/10/2021	Time Sundry Submitted: 01:37
Date proposed operation will begin: 09/14/2021	

Procedure Description: NOTE: This well was renamed the El Campeon Fed Com 214H in a sundry approved 8/16/2021 BHL Change from 10' FSL & 990' FEL to 0' FSL & 1230' FEL; depth change from 10,948'TVD/18,842'MD to 10,929'TVD/18,833'MD; Target correction from 2nd Bone Spring Sandstone to 2nd Bone Spring Shale; minor adjustments to csg, cmt, and BH pressure to account for new depths. Attachments -C102 -APD Drilling Plan - Directional Plan -AC Report

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- El_Campeon_Fed_Com_214H___Shallow_APD_Template_20210915091914.pdf
- EL_CAMPEON_FED_COM_214H_C102_9.10.2021_20210910133714.pdf
- El_Campeon_Fed_Com_214H___Plan_5_09_07_21_20210910133713.pdf
- El_Campeon_Fed_Com_214H___Plan_5_09_07_21_AC_Report_20210910133713.pdf

Well Name: EL CAMPEON FED COM	Well Location: T26S / R35E / SEC 20 / TR P / 32.0224209 / -103.3828133	County or Parish/State: LEA / NM
Well Number: 214H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM126974	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548108	Well Status: Drilling Well	Operator: TITUS OIL AND GAS PRODUCTION LLC

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: RYAN DELONG	Signed on: SEP 15, 2021 09:22 AM
Name: TITUS OIL AND GAS PRODUCTION LLC	
Title: Regulatory Manager	
Street Address: 420 Throckmorton Street, Suite 1150	
City: Fort Worth	State: TX
Phone: (817) 852-6370	
Email address: rdelong@titusoil.com	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: ZOTA M STEVENS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752345998	BLM POC Email Address: ZSTEVENS@BLM.GOV
Disposition: Approved	Disposition Date: 09/23/2021
Signature: Zota Stevens	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-48108	2 Pool Code 96672	3 Pool Name WC-025 G-08 S263412K; Bone Spring
4 Property Code 328509	5 Property Name EL CAMPEON FED COM	6 Well Number 214H
7 OGRID No. 373986	8 Operator Name TITUS OIL & GAS PRODUCTION LLC	9 Elevation 3172'

" Surface Location

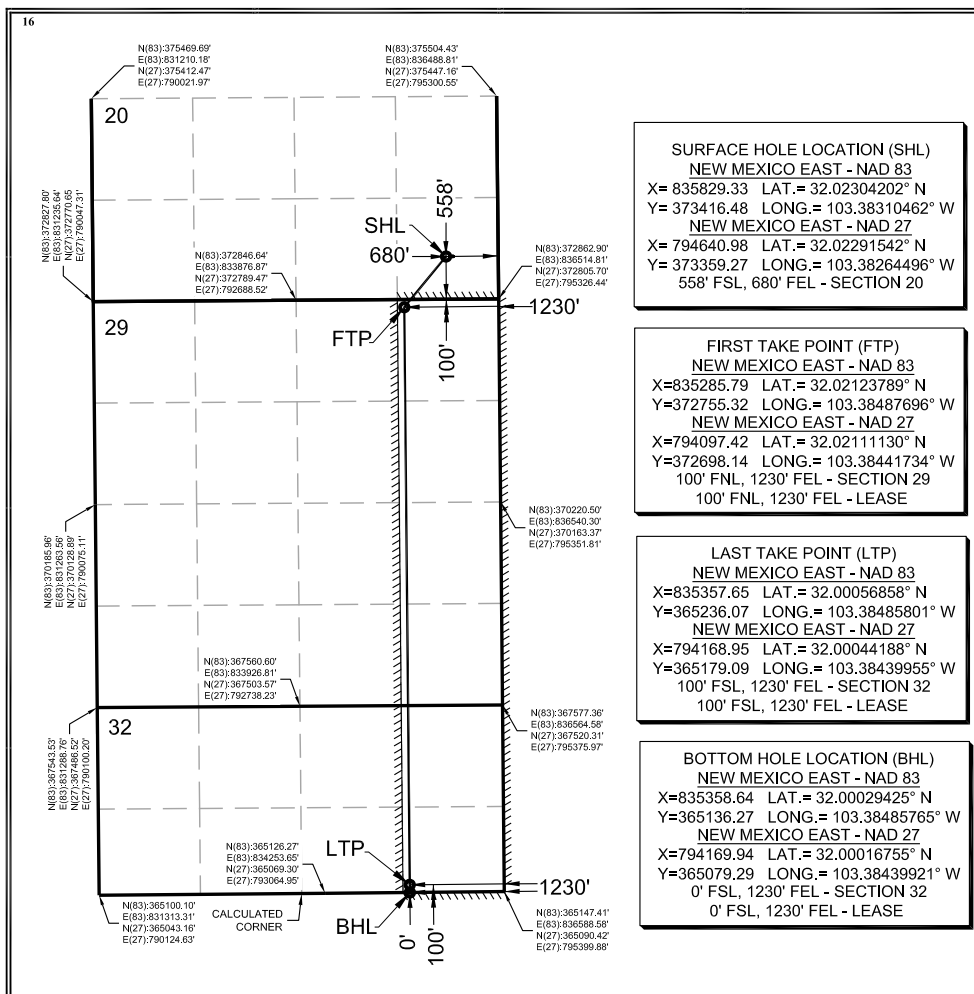
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	20	26-S	35-E		558'	SOUTH	680'	EAST	LEA

" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	32	26-S	35-E		0'	SOUTH	1230'	EAST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
233.64	Y		

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.



17 OPERATOR CERTIFICATION

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

Signature: *Ryan DeLong* Date: 9/10/2021

Printed Name: Ryan DeLong - Regulatory Manager

E-mail Address: rdelong@titusoil.com

18 SURVEYOR CERTIFICATION

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

Date of Survey: *9/2/2021*
Signature and Seal of Professional Surveyor: *Mark J. Murray*

Certificate Number: 12177

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Cabinet Secretary

Adrienne E. Sandoval, Director
Oil Conservation Division



December 10th, 2021

Walter P. Jones
wjones@titusoil.com

NON-STANDARD LOCATION

Administrative Order NSL-8239

Titus Oil & Gas Production, LLC [OGRID 373986]
El Campeon Federal Com Well No. 214H
API No. 30-025-48108

Proposed Location

	Footages	Unit/Lot	Sec.	Twsp	Range	County
Surface	558 FSL & 680 FEL	P	20	26S	35E	Lea
First Take Point	10 FNL & 1230 FEL	A	29	26S	35E	Lea
Last Take Point	100 FSL & 1230 FEL	1	32	26S	35E	Lea
Terminus	0 FSL & 1230 FEL	1	32	26S	35E	Lea

Proposed Horizontal Units

Description	Acres	Pool	Pool Code
E/2 E/2 of Section 29	233.64	Wildcat; Bone Spring	96672
E/2 E/2 of Section 32			

Reference is made to your application received on November 12th, 2021.

You have requested to drill this horizontal well at an unorthodox oil well location described above in the referenced pool or formation. 19.15.16.15(B)(1)(a) NMAC governs this proposed well and provides that the operator shall dedicate to each horizontal oil well a standard horizontal spacing unit that comprises of one or more contiguous tracts that the horizontal well's completed interval penetrates, each of which consists of a governmental quarter - quarter section or equivalent.

This well's completed interval is as close as 10 feet to the northern edge and 90 feet towards the western edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 20, encroachment to the SE/4 SE/4

Section 29, encroachment to the W/2 E/2

Section 32, encroachment to the W/2 E/2

Administrative Order NSL-8239
Titus Oil & Gas Production, LLC
December 10th, 2021
Page 2 of 2

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in 19.15.2.7(A)(8) NMAC, in all adjoining units towards which the proposed location encroaches.

Division understands you are seeking this unorthodox location as your preferred well spacing in this area to maximize recovery and thereby preventing waste within the Wolfcamp formation underlying E/2 E/2 of section 29 and the E/2 E/2 of section 32.

Your application has been filed under 19.15.16.15(C)(6) NMAC, 19.15.15.13 NMAC and 19.15.4.12 (A)(2) NMAC.

Per 19.15.15.13 (B) NMAC, **Division approves this unorthodox location.**

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as Division deems necessary.



ADRIENNE E. SANDOVAL
Division Director

AES/lrl

cc: Bureau of Land Management – Carlsbad Field Office
State Land Office – Oil, Gas, and Minerals Division

ID NO. 61652

Revised March 23, 2017

RECEIVED: 11/12/21	REVIEWER: LRL	TYPE: NSL	APP NO: pLEL2128157363
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Titus Oil & Gas Production, LLC**OGRID Number:** 373986**Well Name:** El Campeon Fed Com 214H**API:** 30-025-48108**Pool:** WC-025 G-08 S263412K**Pool Code:** 96672

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☒ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX☐ PMX☐ SWD☐ IPI☐ EOR☐ PPR**2) NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☐ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☐ Surface ownerG. ☐ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☐

Notice Complete

☐Application
Content
Complete

- 3) CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Reed Brunette, Landman

Print or Type Name

Reed Brunette

Signature

Digitally signed by Reed Brunette
 Date: 2021.11.12 15:27:03 -06'00'

11/12/2021

Date

817-852-6717

Phone Number

rbrunette@titusoil.com

e-mail Address

Titus Oil & Gas Production, LLC

420 Throckmorton St., Ste. 1150
Ft. Worth, TX 76102

November 12, 2021

Submitted via OCD's electronic filing system

Leonard Lowe
NM Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

**RE: Titus Oil & Gas Production, LLC
Request for Administrative Approval of Non-Standard Location**

El Campeon Fed Com 214H
E/2 E/2 Sec. 29 and Lot 1 and NE/4 NE/4 Sec. 32, T26S, R35E
Lea County, New Mexico
WC-025 G-08 S263412K; Bone Spring [96672]
API# 30-025-48108

Dear Mr. Lowe,

Pursuant to Division Rules 19.15.16.15(C)(6) and 19.15.15.13(C)-(D) NMAC and the applicable rules governing the acreage and well location requirements for the WC-025 G-08 S263412K; Bone Spring Pool (Pool Code 96672), Titus Oil & Gas Production, LLC ("Titus") requests administrative approval of a non-standard location for the above-referenced well, as described more fully below.

Standard setback for the first take point of a horizontal oil well is 100 feet from the outer boundary of the spacing unit. The above-referenced well, however, will be 10 feet from the northern boundary of the spacing unit. The affected tract will be the SE/4 SE/4 of Sec. 20, T26S-R35E, Lea Co., NM. Titus is requesting approval to decrease the setback for the first take point of the above-referenced well as indicated below.

The proposed surface and bottom hole locations and first and last take points are as follows:

1. SHL: 558' FSL and 680' FEL of Section 20, T26S-R35E
2. FTP: 10' FNL and 1230' FEL of Section 29, T26S-R35E
3. LTP: 100' FSL and 1230' FEL of Section 32, T26S-R35E
4. BHL: 0' FSL and 1230' FEL of Section 32, T26S-R35E

Mr. Lowe
November 12, 2021
Page 2

It is Titus' responsibility as a prudent operator to maximize the recovery of oil and gas reserves left in the ground. Approval of the unorthodox, completed interval will allow Titus to use its preferred well spacing plan for horizontal wells in this area and thereby maximize recovery and prevent waste.

Attached is the draft C-102 form and plat to assist the Division in its review of Titus's requests. Titus has sent notice to all affected persons on the enclosed spreadsheet by certified mail, return receipt requested, with a copy of this request, the plat, and the draft C-102. The notice also informs the affected persons that, if they object to the aforementioned requests, they must file the objection in writing with the Division within 20 days from the date the Division receives this administrative approval request. I attach a sample of the notice letter and a spreadsheet with the types of interests and names of the affected parties, the location of each parties' interest, the date the letter was sent, and the mail tracking number for the mailings that went out today.

Please let me know if you have any questions or concerns. Thank you for your assistance in this matter.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Reed Brunette".

Reed Brunette
Landman

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-48108	2 Pool Code 96672	3 Pool Name WC-025 G-08 S263412K; Bone Springs
4 Property Code 328509	5 Property Name EL CAMPEON FED COM	6 Well Number 214H
7 OGRID No. 373986	8 Operator Name TITUS OIL & GAS PRODUCTION LLC	9 Elevation 3172'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	20	26-S	35-E		558'	SOUTH	680'	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	32	26-S	35-E		0'	SOUTH	1230'	EAST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
233.64	Y		

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.

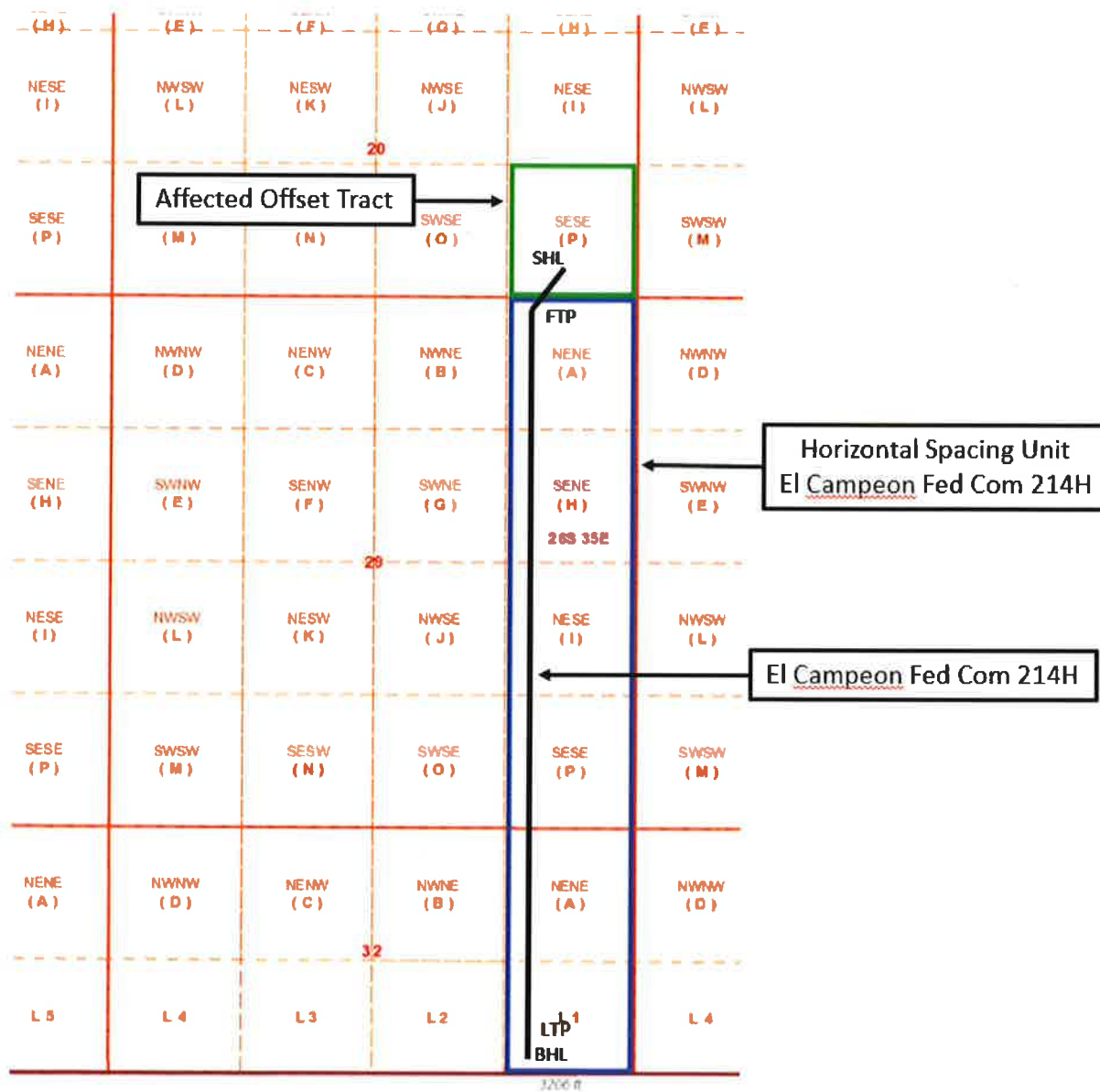
17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to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

Signature: *Ryan DeLong* Date: 11/12/2021
Printed Name: Ryan DeLong - Regulatory Manager
E-mail Address: rdelong@titusoil.com

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

Date of Survey: 11/4/2021
Signature and Seal of Professional Surveyor: *Mark J. Murray*
Certificate Number: 12177

Non-Standard Location Notice Plat
Titus Oil & Gas Production, LLC
El Campeon Fed Com #214H



Titus Oil & Gas Production, LLC

420 Throckmorton St., Ste. 1150
Ft. Worth, TX 76102

November 12, 2021

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO: ALL INTERESTED PARTIES ON THE ATTACHED LIST

Re: Administrative Application for Non-Standard Location

Titus Oil & Gas Production, LLC

OGRID Number: 373986

Pool: WC-025 G-08 S263412K; Bone Spring

Pool Code: 96672

El Campeon Fed Com 214H

E/2 E/2 Sec. 29 and Lot 1 and NE/4 NE/4 Sec. 32, T26S, R35E

Lea County, New Mexico

API# 30-025-48108

Pursuant to Division Rules 19.15.16.15(C)(6) and 19.15.15.13(C)-(D) NMAC and the applicable rules governing the acreage and well location requirements for the El Campeon Fed Com 214H (Pool Code 96672), Titus Oil & Gas Production, LLC has on this date made application to the New Mexico Oil Conservation Division ("NMOCD") for administrative approval of a non-standard location regarding the above-referenced well. A copy of the application is enclosed.

As the owner of an interest that may be affected, you have the right to object to the application. To do so, you must file a written protest with the NMOCD within twenty days. Failure to do so will prevent you from challenging the matter at a later time. A letter of protest may be sent to the NMOCD at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, directed to the attention of Leonard Lowe.

Should you consent to the application and the proposed El Campeon Fed Com 214H well location, you are requested to indicate your waiver of objection by signing where indicated below and then returning a copy of this letter with the executed signature page to me at your earliest convenience.

Very truly yours,



Reed Brunette

Interested Parties
November 12, 2021
Page 2

CONSENT:

By: _____ for _____
Signature Name of Interested Party

Printed Name, Authorized Representative

Type	Affected Party	Address	City, State ZIP	Location	Date Letter Sent	Mail Tracking Number
WIO	Titus Oil & Gas Production II, LLC	420 Throckmorton St., Ste. 1150	Ft. Worth, TX 76102	SE/4 SE/4 Sec. 20, T26S-R35E	N/A	N/A
Lessor	Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220	SE/4 SE/4 Sec. 20, T26S-R35E	11/12/2021	7018 1830 0001 3777 2991

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
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1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 61652

CONDITIONS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 61652
	Action Type: [UF-NSL] Non-Standard Location (NSL)

CONDITIONS

Created By	Condition	Condition Date
llowe	None	11/15/2021

Date: 14:39, September 08 2021



Titus Oil & Gas Production, LLC

Lea County, NM (NAD27 NME)

El Campeon Fed Com

214H

OH / 68221

Plan: Plan 5 09-07-21

Standard Planning Report

07 September, 2021





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 214H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3198.50usft (H&P 474)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3198.50usft (H&P 474)
Site:	El Campeon Fed Com	North Reference:	Grid
Well:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68221		
Design:	Plan 5 09-07-21		

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

Site		El Campeon Fed Com			
Site Position: From:	Map	Northing:	373,359.76 usft	Latitude:	32° 1' 22.495128 N
		Easting:	794,700.92 usft	Longitude:	103° 22' 56.825685 W
		Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "

Well	214H					
Well Position	+N/-S	-0.49 usft	Northing:	373,359.27 usft	Latitude:	32° 1' 22.495499 N
	+E/-W	-59.94 usft	Easting:	794,640.98 usft	Longitude:	103° 22' 57.521902 W
Position Uncertainty		1.00 usft	Wellhead Elevation:		Ground Level:	3,172.00 usft

Wellbore	OH / 68221				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	10/15/2021	6.32	59.60	47,404.16315246

Design	Plan 5 09-07-21				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.45	

Plan Survey Tool Program	Date	9/7/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	18,833.80	Plan 5 09-07-21 (OH / 68221)	MWD+HDGM	
			OWSG Rev.2 MWD + HDGM		



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 214H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3198.50usft (H&P 474)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3198.50usft (H&P 474)
Site:	El Campeon Fed Com	North Reference:	Grid
Well:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68221		
Design:	Plan 5 09-07-21		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,766.67	2.50	251.40	1,766.61	-1.16	-3.45	1.50	1.50	0.00	251.40	
5,353.47	2.50	251.40	5,350.00	-51.06	-151.73	0.00	0.00	0.00	0.00	
5,607.42	6.31	251.40	5,603.16	-57.28	-170.21	1.50	1.50	0.00	0.00	
9,024.96	6.31	251.40	9,000.00	-177.06	-526.17	0.00	0.00	0.00	0.00	
9,445.58	0.00	179.45	9,419.77	-184.44	-548.10	1.50	-1.50	0.00	180.00	
10,465.35	0.00	179.45	10,439.54	-184.44	-548.10	0.00	0.00	0.00	0.00	
11,214.60	89.91	179.45	10,917.00	-661.13	-543.56	12.00	12.00	0.00	0.00	FTPv3 - El Campeon
18,833.80	89.91	179.45	10,929.00	-8,279.98	-471.04	0.00	0.00	0.00	0.00	BHLv2 - El Campeon



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 214H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3198.50usft (H&P 474)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3198.50usft (H&P 474)
Site:	El Campeon Fed Com	North Reference:	Grid
Well:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68221		
Design:	Plan 5 09-07-21		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 1.50°/100' Build									
1,700.00	1.50	251.40	1,699.99	-0.42	-1.24	0.41	1.50	1.50	0.00
1,766.67	2.50	251.40	1,766.61	-1.16	-3.45	1.13	1.50	1.50	0.00
Hold 2.50° Inc at 251.40° Azm									
1,800.00	2.50	251.40	1,799.92	-1.62	-4.82	1.58	0.00	0.00	0.00
1,900.00	2.50	251.40	1,899.82	-3.01	-8.96	2.93	0.00	0.00	0.00
2,000.00	2.50	251.40	1,999.73	-4.41	-13.09	4.28	0.00	0.00	0.00
2,100.00	2.50	251.40	2,099.63	-5.80	-17.23	5.63	0.00	0.00	0.00
2,200.00	2.50	251.40	2,199.53	-7.19	-21.36	6.98	0.00	0.00	0.00
2,300.00	2.50	251.40	2,299.44	-8.58	-25.49	8.33	0.00	0.00	0.00
2,400.00	2.50	251.40	2,399.34	-9.97	-29.63	9.69	0.00	0.00	0.00
2,500.00	2.50	251.40	2,499.25	-11.36	-33.76	11.04	0.00	0.00	0.00
2,600.00	2.50	251.40	2,599.15	-12.75	-37.90	12.39	0.00	0.00	0.00
2,700.00	2.50	251.40	2,699.06	-14.14	-42.03	13.74	0.00	0.00	0.00
2,800.00	2.50	251.40	2,798.96	-15.54	-46.16	15.09	0.00	0.00	0.00
2,900.00	2.50	251.40	2,898.87	-16.93	-50.30	16.44	0.00	0.00	0.00
3,000.00	2.50	251.40	2,998.77	-18.32	-54.43	17.80	0.00	0.00	0.00
3,100.00	2.50	251.40	3,098.68	-19.71	-58.57	19.15	0.00	0.00	0.00
3,200.00	2.50	251.40	3,198.58	-21.10	-62.70	20.50	0.00	0.00	0.00
3,300.00	2.50	251.40	3,298.49	-22.49	-66.84	21.85	0.00	0.00	0.00
3,400.00	2.50	251.40	3,398.39	-23.88	-70.97	23.20	0.00	0.00	0.00
3,500.00	2.50	251.40	3,498.30	-25.28	-75.10	24.55	0.00	0.00	0.00
3,600.00	2.50	251.40	3,598.20	-26.67	-79.24	25.90	0.00	0.00	0.00
3,700.00	2.50	251.40	3,698.11	-28.06	-83.37	27.26	0.00	0.00	0.00
3,800.00	2.50	251.40	3,798.01	-29.45	-87.51	28.61	0.00	0.00	0.00
3,900.00	2.50	251.40	3,897.92	-30.84	-91.64	29.96	0.00	0.00	0.00
4,000.00	2.50	251.40	3,997.82	-32.23	-95.77	31.31	0.00	0.00	0.00
4,100.00	2.50	251.40	4,097.73	-33.62	-99.91	32.66	0.00	0.00	0.00
4,200.00	2.50	251.40	4,197.63	-35.01	-104.04	34.01	0.00	0.00	0.00
4,300.00	2.50	251.40	4,297.54	-36.41	-108.18	35.37	0.00	0.00	0.00
4,400.00	2.50	251.40	4,397.44	-37.80	-112.31	36.72	0.00	0.00	0.00
4,500.00	2.50	251.40	4,497.35	-39.19	-116.44	38.07	0.00	0.00	0.00
4,600.00	2.50	251.40	4,597.25	-40.58	-120.58	39.42	0.00	0.00	0.00
4,700.00	2.50	251.40	4,697.16	-41.97	-124.71	40.77	0.00	0.00	0.00
4,800.00	2.50	251.40	4,797.06	-43.36	-128.85	42.12	0.00	0.00	0.00
4,900.00	2.50	251.40	4,896.96	-44.75	-132.98	43.47	0.00	0.00	0.00
5,000.00	2.50	251.40	4,996.87	-46.14	-137.12	44.83	0.00	0.00	0.00
5,100.00	2.50	251.40	5,096.77	-47.54	-141.25	46.18	0.00	0.00	0.00
5,200.00	2.50	251.40	5,196.68	-48.93	-145.38	47.53	0.00	0.00	0.00
5,300.00	2.50	251.40	5,296.58	-50.32	-149.52	48.88	0.00	0.00	0.00
5,353.47	2.50	251.40	5,350.00	-51.06	-151.73	49.60	0.00	0.00	0.00
Begin 1.50°/100' Build									
5,400.00	3.20	251.40	5,396.48	-51.80	-153.92	50.32	1.50	1.50	0.00
5,500.00	4.70	251.40	5,496.24	-54.00	-160.45	52.45	1.50	1.50	0.00
5,600.00	6.20	251.40	5,595.78	-57.02	-169.44	55.39	1.50	1.50	0.00
5,607.42	6.31	251.40	5,603.16	-57.28	-170.21	55.64	1.50	1.50	0.00
Hold 6.31° Inc									
5,700.00	6.31	251.40	5,695.18	-60.53	-179.85	58.80	0.00	0.00	0.00
5,800.00	6.31	251.40	5,794.57	-64.03	-190.27	62.20	0.00	0.00	0.00
5,900.00	6.31	251.40	5,893.96	-67.54	-200.68	65.61	0.00	0.00	0.00
6,000.00	6.31	251.40	5,993.36	-71.04	-211.10	69.01	0.00	0.00	0.00
6,100.00	6.31	251.40	6,092.75	-74.55	-221.52	72.42	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 214H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3198.50usft (H&P 474)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3198.50usft (H&P 474)
Site:	El Campeon Fed Com	North Reference:	Grid
Well:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68221		
Design:	Plan 5 09-07-21		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,200.00	6.31	251.40	6,192.15	-78.05	-231.93	75.82	0.00	0.00	0.00
6,300.00	6.31	251.40	6,291.54	-81.56	-242.35	79.22	0.00	0.00	0.00
6,400.00	6.31	251.40	6,390.94	-85.06	-252.76	82.63	0.00	0.00	0.00
6,500.00	6.31	251.40	6,490.33	-88.56	-263.18	86.03	0.00	0.00	0.00
6,600.00	6.31	251.40	6,589.72	-92.07	-273.59	89.44	0.00	0.00	0.00
6,700.00	6.31	251.40	6,689.12	-95.57	-284.01	92.84	0.00	0.00	0.00
6,800.00	6.31	251.40	6,788.51	-99.08	-294.42	96.25	0.00	0.00	0.00
6,900.00	6.31	251.40	6,887.91	-102.58	-304.84	99.65	0.00	0.00	0.00
7,000.00	6.31	251.40	6,987.30	-106.09	-315.26	103.06	0.00	0.00	0.00
7,100.00	6.31	251.40	7,086.70	-109.59	-325.67	106.46	0.00	0.00	0.00
7,200.00	6.31	251.40	7,186.09	-113.10	-336.09	109.87	0.00	0.00	0.00
7,300.00	6.31	251.40	7,285.49	-116.60	-346.50	113.27	0.00	0.00	0.00
7,400.00	6.31	251.40	7,384.88	-120.11	-356.92	116.68	0.00	0.00	0.00
7,500.00	6.31	251.40	7,484.27	-123.61	-367.33	120.08	0.00	0.00	0.00
7,600.00	6.31	251.40	7,583.67	-127.12	-377.75	123.49	0.00	0.00	0.00
7,700.00	6.31	251.40	7,683.06	-130.62	-388.17	126.89	0.00	0.00	0.00
7,800.00	6.31	251.40	7,782.46	-134.13	-398.58	130.30	0.00	0.00	0.00
7,900.00	6.31	251.40	7,881.85	-137.63	-409.00	133.70	0.00	0.00	0.00
8,000.00	6.31	251.40	7,981.25	-141.14	-419.41	137.10	0.00	0.00	0.00
8,100.00	6.31	251.40	8,080.64	-144.64	-429.83	140.51	0.00	0.00	0.00
8,200.00	6.31	251.40	8,180.03	-148.15	-440.24	143.91	0.00	0.00	0.00
8,300.00	6.31	251.40	8,279.43	-151.65	-450.66	147.32	0.00	0.00	0.00
8,400.00	6.31	251.40	8,378.82	-155.16	-461.08	150.72	0.00	0.00	0.00
8,500.00	6.31	251.40	8,478.22	-158.66	-471.49	154.13	0.00	0.00	0.00
8,600.00	6.31	251.40	8,577.61	-162.17	-481.91	157.53	0.00	0.00	0.00
8,700.00	6.31	251.40	8,677.01	-165.67	-492.32	160.94	0.00	0.00	0.00
8,800.00	6.31	251.40	8,776.40	-169.18	-502.74	164.34	0.00	0.00	0.00
8,900.00	6.31	251.40	8,875.79	-172.68	-513.15	167.75	0.00	0.00	0.00
9,000.00	6.31	251.40	8,975.19	-176.19	-523.57	171.15	0.00	0.00	0.00
9,024.96	6.31	251.40	9,000.00	-177.06	-526.17	172.00	0.00	0.00	0.00
Begin 1.50°/100' Drop									
9,100.00	5.18	251.40	9,074.66	-179.46	-533.29	174.33	1.50	-1.50	0.00
9,200.00	3.68	251.40	9,174.36	-181.92	-540.62	176.72	1.50	-1.50	0.00
9,300.00	2.18	251.40	9,274.22	-183.55	-545.47	178.31	1.50	-1.50	0.00
9,400.00	0.68	251.40	9,374.19	-184.35	-547.84	179.08	1.50	-1.50	0.00
9,445.58	0.00	0.00	9,419.77	-184.44	-548.10	179.17	1.50	-1.50	0.00
Begin Vertical Hold									
10,465.35	0.00	0.00	10,439.54	-184.44	-548.10	179.17	0.00	0.00	0.00
KOP2, Begin 12.00°/100' Build									
10,500.00	4.16	179.45	10,474.16	-185.70	-548.09	180.43	12.00	12.00	0.00
10,600.00	16.16	179.45	10,572.41	-203.30	-547.92	198.03	12.00	12.00	0.00
10,700.00	28.16	179.45	10,664.86	-240.95	-547.56	235.68	12.00	12.00	0.00
10,800.00	40.16	179.45	10,747.45	-296.99	-547.03	291.72	12.00	12.00	0.00
10,900.00	52.16	179.45	10,816.59	-368.98	-546.34	363.72	12.00	12.00	0.00
11,000.00	64.16	179.45	10,869.25	-453.77	-545.53	448.51	12.00	12.00	0.00
11,100.00	76.16	179.45	10,903.14	-547.66	-544.64	542.40	12.00	12.00	0.00
11,200.00	88.16	179.45	10,916.75	-646.54	-543.70	641.29	12.00	12.00	0.00
11,214.60	89.91	179.45	10,917.00	-661.13	-543.56	655.88	12.00	12.00	0.00
Hold 89.91° Inc at 179.45° Azm									
11,300.00	89.91	179.45	10,917.13	-746.53	-542.75	741.29	0.00	0.00	0.00
11,400.00	89.91	179.45	10,917.29	-846.53	-541.80	841.29	0.00	0.00	0.00
11,500.00	89.91	179.45	10,917.45	-946.52	-540.84	941.29	0.00	0.00	0.00
11,600.00	89.91	179.45	10,917.61	-1,046.52	-539.89	1,041.29	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 214H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3198.50usft (H&P 474)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3198.50usft (H&P 474)
Site:	El Campeon Fed Com	North Reference:	Grid
Well:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68221		
Design:	Plan 5 09-07-21		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,700.00	89.91	179.45	10,917.76	-1,146.51	-538.94	1,141.28	0.00	0.00	0.00
11,800.00	89.91	179.45	10,917.92	-1,246.51	-537.99	1,241.28	0.00	0.00	0.00
11,900.00	89.91	179.45	10,918.08	-1,346.50	-537.04	1,341.28	0.00	0.00	0.00
12,000.00	89.91	179.45	10,918.24	-1,446.50	-536.08	1,441.28	0.00	0.00	0.00
12,100.00	89.91	179.45	10,918.39	-1,546.49	-535.13	1,541.28	0.00	0.00	0.00
12,200.00	89.91	179.45	10,918.55	-1,646.49	-534.18	1,641.28	0.00	0.00	0.00
12,300.00	89.91	179.45	10,918.71	-1,746.48	-533.23	1,741.28	0.00	0.00	0.00
12,400.00	89.91	179.45	10,918.87	-1,846.48	-532.28	1,841.28	0.00	0.00	0.00
12,500.00	89.91	179.45	10,919.02	-1,946.47	-531.33	1,941.28	0.00	0.00	0.00
12,600.00	89.91	179.45	10,919.18	-2,046.47	-530.37	2,041.28	0.00	0.00	0.00
12,700.00	89.91	179.45	10,919.34	-2,146.46	-529.42	2,141.28	0.00	0.00	0.00
12,800.00	89.91	179.45	10,919.50	-2,246.46	-528.47	2,241.28	0.00	0.00	0.00
12,900.00	89.91	179.45	10,919.65	-2,346.46	-527.52	2,341.28	0.00	0.00	0.00
13,000.00	89.91	179.45	10,919.81	-2,446.45	-526.57	2,441.28	0.00	0.00	0.00
13,100.00	89.91	179.45	10,919.97	-2,546.45	-525.61	2,541.28	0.00	0.00	0.00
13,200.00	89.91	179.45	10,920.13	-2,646.44	-524.66	2,641.28	0.00	0.00	0.00
13,300.00	89.91	179.45	10,920.28	-2,746.44	-523.71	2,741.28	0.00	0.00	0.00
13,400.00	89.91	179.45	10,920.44	-2,846.43	-522.76	2,841.28	0.00	0.00	0.00
13,500.00	89.91	179.45	10,920.60	-2,946.43	-521.81	2,941.28	0.00	0.00	0.00
13,600.00	89.91	179.45	10,920.76	-3,046.42	-520.86	3,041.28	0.00	0.00	0.00
13,700.00	89.91	179.45	10,920.91	-3,146.42	-519.90	3,141.28	0.00	0.00	0.00
13,800.00	89.91	179.45	10,921.07	-3,246.41	-518.95	3,241.28	0.00	0.00	0.00
13,900.00	89.91	179.45	10,921.23	-3,346.41	-518.00	3,341.28	0.00	0.00	0.00
14,000.00	89.91	179.45	10,921.39	-3,446.40	-517.05	3,441.28	0.00	0.00	0.00
14,100.00	89.91	179.45	10,921.54	-3,546.40	-516.10	3,541.28	0.00	0.00	0.00
14,200.00	89.91	179.45	10,921.70	-3,646.39	-515.14	3,641.28	0.00	0.00	0.00
14,300.00	89.91	179.45	10,921.86	-3,746.39	-514.19	3,741.28	0.00	0.00	0.00
14,400.00	89.91	179.45	10,922.02	-3,846.39	-513.24	3,841.28	0.00	0.00	0.00
14,500.00	89.91	179.45	10,922.17	-3,946.38	-512.29	3,941.28	0.00	0.00	0.00
14,600.00	89.91	179.45	10,922.33	-4,046.38	-511.34	4,041.28	0.00	0.00	0.00
14,700.00	89.91	179.45	10,922.49	-4,146.37	-510.39	4,141.28	0.00	0.00	0.00
14,800.00	89.91	179.45	10,922.65	-4,246.37	-509.43	4,241.28	0.00	0.00	0.00
14,900.00	89.91	179.45	10,922.80	-4,346.36	-508.48	4,341.28	0.00	0.00	0.00
15,000.00	89.91	179.45	10,922.96	-4,446.36	-507.53	4,441.28	0.00	0.00	0.00
15,100.00	89.91	179.45	10,923.12	-4,546.35	-506.58	4,541.28	0.00	0.00	0.00
15,200.00	89.91	179.45	10,923.28	-4,646.35	-505.63	4,641.28	0.00	0.00	0.00
15,300.00	89.91	179.45	10,923.43	-4,746.34	-504.67	4,741.28	0.00	0.00	0.00
15,400.00	89.91	179.45	10,923.59	-4,846.34	-503.72	4,841.28	0.00	0.00	0.00
15,500.00	89.91	179.45	10,923.75	-4,946.33	-502.77	4,941.28	0.00	0.00	0.00
15,600.00	89.91	179.45	10,923.91	-5,046.33	-501.82	5,041.28	0.00	0.00	0.00
15,700.00	89.91	179.45	10,924.06	-5,146.33	-500.87	5,141.28	0.00	0.00	0.00
15,800.00	89.91	179.45	10,924.22	-5,246.32	-499.92	5,241.28	0.00	0.00	0.00
15,900.00	89.91	179.45	10,924.38	-5,346.32	-498.96	5,341.28	0.00	0.00	0.00
16,000.00	89.91	179.45	10,924.54	-5,446.31	-498.01	5,441.28	0.00	0.00	0.00
16,100.00	89.91	179.45	10,924.69	-5,546.31	-497.06	5,541.28	0.00	0.00	0.00
16,200.00	89.91	179.45	10,924.85	-5,646.30	-496.11	5,641.28	0.00	0.00	0.00
16,300.00	89.91	179.45	10,925.01	-5,746.30	-495.16	5,741.28	0.00	0.00	0.00
16,400.00	89.91	179.45	10,925.17	-5,846.29	-494.21	5,841.28	0.00	0.00	0.00
16,500.00	89.91	179.45	10,925.32	-5,946.29	-493.25	5,941.28	0.00	0.00	0.00
16,600.00	89.91	179.45	10,925.48	-6,046.28	-492.30	6,041.28	0.00	0.00	0.00
16,700.00	89.91	179.45	10,925.64	-6,146.28	-491.35	6,141.28	0.00	0.00	0.00
16,800.00	89.91	179.45	10,925.80	-6,246.27	-490.40	6,241.28	0.00	0.00	0.00
16,900.00	89.91	179.45	10,925.95	-6,346.27	-489.45	6,341.28	0.00	0.00	0.00
17,000.00	89.91	179.45	10,926.11	-6,446.26	-488.49	6,441.28	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 214H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3198.50usft (H&P 474)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3198.50usft (H&P 474)
Site:	El Campeon Fed Com	North Reference:	Grid
Well:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68221		
Design:	Plan 5 09-07-21		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
17,100.00	89.91	179.45	10,926.27	-6,546.26	-487.54	6,541.28	0.00	0.00	0.00	
17,200.00	89.91	179.45	10,926.43	-6,646.26	-486.59	6,641.28	0.00	0.00	0.00	
17,300.00	89.91	179.45	10,926.58	-6,746.25	-485.64	6,741.28	0.00	0.00	0.00	
17,400.00	89.91	179.45	10,926.74	-6,846.25	-484.69	6,841.28	0.00	0.00	0.00	
17,500.00	89.91	179.45	10,926.90	-6,946.24	-483.74	6,941.28	0.00	0.00	0.00	
17,600.00	89.91	179.45	10,927.06	-7,046.24	-482.78	7,041.28	0.00	0.00	0.00	
17,700.00	89.91	179.45	10,927.21	-7,146.23	-481.83	7,141.28	0.00	0.00	0.00	
17,800.00	89.91	179.45	10,927.37	-7,246.23	-480.88	7,241.28	0.00	0.00	0.00	
17,900.00	89.91	179.45	10,927.53	-7,346.22	-479.93	7,341.28	0.00	0.00	0.00	
18,000.00	89.91	179.45	10,927.69	-7,446.22	-478.98	7,441.28	0.00	0.00	0.00	
18,100.00	89.91	179.45	10,927.84	-7,546.21	-478.02	7,541.28	0.00	0.00	0.00	
18,200.00	89.91	179.45	10,928.00	-7,646.21	-477.07	7,641.28	0.00	0.00	0.00	
18,300.00	89.91	179.45	10,928.16	-7,746.20	-476.12	7,741.28	0.00	0.00	0.00	
18,400.00	89.91	179.45	10,928.32	-7,846.20	-475.17	7,841.28	0.00	0.00	0.00	
18,500.00	89.91	179.45	10,928.47	-7,946.19	-474.22	7,941.28	0.00	0.00	0.00	
18,600.00	89.91	179.45	10,928.63	-8,046.19	-473.27	8,041.28	0.00	0.00	0.00	
18,700.00	89.91	179.45	10,928.79	-8,146.19	-472.31	8,141.28	0.00	0.00	0.00	
18,800.00	89.91	179.45	10,928.95	-8,246.18	-471.36	8,241.28	0.00	0.00	0.00	
18,833.80	89.91	179.45	10,929.00	-8,279.98	-471.04	8,275.08	0.00	0.00	0.00	
TD at 18833.80										

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
FTPv3 - El Campeon Fe - plan hits target center - Point	0.00	0.00	10,917.00	-661.13	-543.56	372,698.14	794,097.42	32° 1' 16.000677 N	103° 23' 3.902458 W
BHLv2 - El Campeon Fe - plan hits target center - Rectangle (sides W100.00 H7,619.19 D0.00)	0.09	179.45	10,929.00	-8,279.98	-471.04	365,079.29	794,169.94	32° 0' 0.603121 N	103° 23' 3.837107 W
LTPv2 - El Campeon Fe - plan misses target center by 0.93usft at 18734.00usft MD (10928.84 TVD, -8180.18 N, -471.99 E) - Point	0.00	0.00	10,929.77	-8,180.18	-472.03	365,179.09	794,168.95	32° 0' 1.590765 N	103° 23' 3.838431 W

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
18,915.47		20" Casing	20	24



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 214H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3198.50usft (H&P 474)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3198.50usft (H&P 474)
Site:	El Campeon Fed Com	North Reference:	Grid
Well:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68221		
Design:	Plan 5 09-07-21		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,600.00	1,600.00	0.00	0.00	KOP, Begin 1.50°/100' Build
1,766.67	1,766.61	-1.16	-3.45	Hold 2.50° Inc at 251.40° Azm
5,353.47	5,350.00	-51.06	-151.73	Begin 1.50°/100' Build
5,607.42	5,603.16	-57.28	-170.21	Hold 6.31° Inc
9,024.96	9,000.00	-177.06	-526.17	Begin 1.50°/100' Drop
9,445.58	9,419.77	-184.44	-548.10	Begin Vertical Hold
10,465.35	10,439.54	-184.44	-548.10	KOP2, Begin 12.00°/100' Build
11,214.60	10,917.00	-661.13	-543.56	Hold 89.91° Inc at 179.45° Azm
18,833.80	10,929.00	-8,279.98	-471.04	TD at 18833.80

Titus Oil & Gas Production, LLC - El Campeon Fed Com 214H

1. Geologic Formations

TVD of target	10,929' EOL	Pilot hole depth	NA
MD at TD:	18,833'	Deepest expected fresh water:	400'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1079	Water	
Top of Salt	1536	Salt	
Base of Salt	5028	Salt	
Lamar	5337	Salt Water	
Bell Canyon	5372	Oil/Gas	
Cherry Canyon	6187	Oil/Gas	
Brushy Canyon	7796	Oil/Gas	
Bone Spring Lime	9227	Oil/Gas	
Avalon	9249	Oil/Gas	
1st Bone Spring Sand	10489	Oil/Gas	
2nd Bone Spring Shale	10674	Target Oil/Gas	
2nd Bone Spring Sand	11033	Oil/Gas	
3rd Bone Spring Sand	12125	Oil/Gas	
Wolfcamp	12478	Oil/Gas	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1105	13.375"	54.5	J55	STC	2.23	1.20	8.54
12.25"	0	5315	9.625"	40	J55	LTC	1.13	0.93	2.45
8.75"	0	18,833	5.5"	17	P110	LTC	1.40	2.50	2.40
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

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

Titus Oil & Gas Production, LLC - El Campeon Fed Com 214H

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

Titus Oil & Gas Production, LLC - El Campeon Fed Com 214H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	470	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter.	1030	12.7	2.0	9.6	16	Lead: 35:65:6 C Blend
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl
5.5 Prod	780	11.9	2.5	19	72	Lead: 50:50:10 H Blend
	2140	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	4,815'	25% OH in Lateral (KOP to EOL) – 40% OH in Vertical

Titus Oil & Gas Production, LLC - El Campeon Fed Com 214H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12-1/4"	13-5/8"	2M	Annular	x	2000 psi
			Blind Ram		2M
			Pipe Ram		
			Double Ram		
			Other*		
8-3/4"	13-5/8"	5M	Annular	x	50% testing pressure
			Blind Ram	x	5M
			Pipe Ram	x	
			Double Ram		
			Other*		

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

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

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

Titus Oil & Gas Production, LLC - El Campeon Fed Com 214H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Saturated Brine	10 - 10.2	28-34	N/C
9-5/8" Int shoe	Lateral TD	Cut Brine	8.6 - 9.4	28-34	N/C

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

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

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

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

Titus Oil & Gas Production, LLC - El Campeon Fed Com 214H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5345 psi at 10929' 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.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 67518

CONDITIONS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 67518
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	12/17/2021