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	2 Pool Code	3 Pool Name
30-015-49451	98220	Purple Sage; Wolfcamp

4 Property Code	5 Property Name	6 Well Number
332715	CHICKEN NOODLE FED COM	402H

7 OGRID No.	8 Operator Name	9 Elevation
373986	TITUS OIL & GAS PRODUCTION LLC	3643.69'

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
F	11	26-S	25-E		2376'	NORTH	1547'	WEST	EDDY

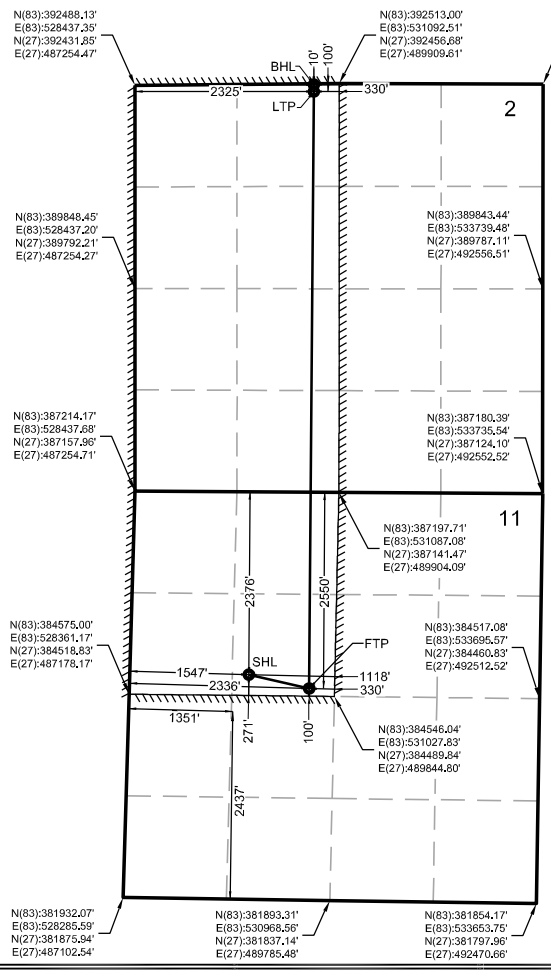
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	2	26-S	25-E		10'	NORTH	2325'	WEST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
480	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.

16



BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=530762.50 LAT.= 32.07905731° N
Y=392499.91 LONG.= 104.36747689° W
NEW MEXICO EAST - NAD 27
X=489579.60 LAT.= 32.07893862° N
Y=392443.59 LONG.= 104.36697697° W
10' FNL, 2325' FWL - SECTION 2
10' FNL, 330' FEL - LEASE

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=530762.40 LAT.= 32.07880989° N
Y=392409.91 LONG.= 104.36747709° W
NEW MEXICO EAST - NAD 27
X=489579.50 LAT.= 32.07869120° N
Y=392353.59 LONG.= 104.36697718° W
100' FNL, 2325' FWL - SECTION 2
100' FNL, 330' FEL - LEASE

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=530700.06 LAT.= 32.05747698° N
Y=384649.61 LONG.= 104.36767041° W
NEW MEXICO EAST - NAD 27
X=489517.03 LAT.= 32.05735790° N
Y=384593.41 LONG.= 104.36717101° W
2550' FNL, 2336' FWL - SECTION 11
100' FSL, 330' FEL - LEASE

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X= 529916.19 LAT.= 32.05796924° N
Y= 384828.94 LONG.= 104.37020092° W
NEW MEXICO EAST - NAD 27
X= 488733.17 LAT.= 32.05785022° N
Y= 384772.75 LONG.= 104.36970142° W
2376' FNL, 1547' FWL - SECTION 11
271' FSL, 1118' FEL - LEASE

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 9/29/2021 Date

Ryan DeLong - Regulatory Manager
Printed Name

rdelong@titusoil.com
E-mail Address

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

Signature and Seal of Professional Surveyor:

MARK J. MURRAY NEW MEXICO 12177 REGISTERED PROFESSIONAL SURVEYOR

9/3/2021

Certificate Number

Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM113397

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

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

8. Lease Name and Well No.: CHICKEN NOODLE FED COM 402H

2. Name of Operator: TITUS OIL AND GAS PRODUCTION LLC

9. API Well No.: 30-015-49451

3a. Address: 420 Throckmorton St., Suite 1150, Fort Worth, TX 76102

3b. Phone No. *(include area code)*: (817) 852-6358

10. Field and Pool, or Exploratory: PURPLE SAGE/PURPLE SAGE WOLFCA

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: SENW / 2376 FNL / 1547 FWL / LAT 32.0579692 / LONG -104.3702009

At proposed prod. zone: NENW / 10 FNL / 2325 FWL / LAT 32.0790573 / LONG -104.3674768

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 11/T26S/R25E/NMP

14. Distance in miles and direction from nearest town or post office*

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 271 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 480.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 30 feet

19. Proposed Depth: 8374 feet / 16397 feet

20. BLM/BIA Bond No. in file: FED: NMB001532

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3644 feet

22. Approximate date work will start*: 10/29/2021

23. Estimated duration: 45 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	WALTER JONES / Ph: (817) 852-6358	11/01/2020

Title: þÿVice President Land

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575) 234-5959	04/12/2022

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field Office

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

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 04/12/2022

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Titus Oil & Gas Production, LLC **OGRID:** 373986 **Date:** 3 / 15 / 2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Chicken Noodle Fed Com 402H	New Well	F, Sec 11, 26S-25E	2376' FNL &	770	1990	3284
			1547' FWL			

IV. Central Delivery Point Name: Chicken Noodle CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Chicken Noodle Fed Com 402H	New Well	1/15/2023	3/1/2023	5/15/2023	4/21/2023	4/22/2023

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	
Printed Name:	Ryan DeLong
Title:	Regulatory Manager
E-mail Address:	rdelong@titusoil.com
Date:	3/15/2023
Phone:	817-852-6370

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

VI. **Separation Equipment:** Attach a complete description of how Operator will size separation equipment to optimize gas capture:

Each surface facility design includes the following process equipment: 3-phase vertical separator (one per well), 3-phase heater treater (one per well), one or two sales gas scrubbers, two bulk free water knockouts, two bulk heater treaters, a vapor recover tower (VRT), a vapor recovery unit (VRU) compressor, multiple water and oil tanks, as well as flare liquid scrubbers (HP & LP), flares (HP & LP), and combustors. All process vessels will be sized to separate oil, water, and gas based upon historical & predicted well performance. Each process vessel will be fitted with the appropriately sized PSV as per ASME code requirements to mitigate vessel rupture and loss of containment. Additionally, the process vessels will be fitted with pressure transmitters tied to the facility control system with allow operations to monitor pressures and when necessary, shut-in the facility to avoid vessel over-pressure and potential flaring or venting of natural gas. Natural gas will be preferentially sent to pipeline, and only directed to the HP flare system in upset/emergency situations. Flash gas from the free water knockouts, bulk heater treaters, and VRT will be recompressed using a VRU compressor and will be preferentially redirected to gas sales pipeline. Oil tanks and water tanks will be fitted with 16 oz thief hatches as well as PRVs to protect the tank from rupture/collapse. The tank vapor outlets and tank vapor capture system will be sized to keep the tank pressures below 12 oz. the tank vapor capture system will include a scrubber and combustors. All tank vapors will be combusted to industry standards.

VII. **Operational Practices:** Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC:

- **During drilling operations -** Gas meters will be installed at the shakers and Volume Totalizers will be installed on the pits. If elevated gas levels, or a pit gain are observed, returns will be diverted to a gas buster. Gas coming off the gas buster will be combusted at the flare stack. A 10’ or taller flare will be located at least 100’ from the SHL.
- **During Completion Operations, including stimulation and frac plug drill out operations:** hydrocarbon production to surface is minimized. If gas production does occur, gas will be combusted at a flare stack. A 10’ or taller flare will be located at least 100’ from SHL
- **During production operations:** All process vessels (separators, heater treaters, tanks) will recompress (where necessary) and route gas outlets into the natural gas gathering line. Gas will preferentially be routed to natural gas gathering pipeline and the flare system will only be used during emergency, malfunction, or if the gas does not meet pipeline specifications. In the event of flaring off-specification gas, operations will pull gas samples twice a week and will also route gas back to pipeline as soon as gas meets specifications. Exceptions to this will include only those qualified exceptions per the regulation 19.15.27.8 Subsection D.
- To comply with state performance standards, separation and storage equipment will be designed to handle the maximum anticipated throughput and pressure to minimize waste and reduce the likelihood of venting gas to atmosphere. Additionally, each storage atmospheric tank (oil & water) will be fitted with a level transmitter to facilitate gauging of the tank without opening the thief hatch. Any gas collected through the tank vent system is expected to be recompressed and routed to sales. However, in the event of an emergency, the tank vapor capture system will be designed to combust the gas using a combustor system with a continuous ignitor. The combustor will be properly anchored and will be

located a minimum of 100 feet from the well and storage tanks. Operators will conduct weekly AVO inspections. These AVO inspection records will be stored for the required 5-year period and will be made available upon Division request

VII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- When performing routine or preventive maintenance on a vessel or tank, initially all inlet valves are close, and the vessel or tank is allowed to depressurize through the normal outlet connections to gas sales and/or liquid tanks. Once the vessel or tank is depressurized to lowest acceptable sales outlet pressure, usually around 20 psig, a temporary low-pressure flowline is connected from the vessel or tank to the VRU for further pressure reduction. Once depressurized to less than 1-2 psig, the remaining natural gas in the vessel or tank is vented to atmosphere through a controlled pressure relief valve. Once the vessel or tank is depressurized to atmospheric pressure, the vessel or tank can be safely opened, and maintenance performed.

Titus Oil & Gas Production, LLC - Chicken Noodle State 402H

1. Geologic Formations

TVD of target	8,374' EOL	Pilot hole depth	NA
MD at TD:	16,485'	Deepest expected fresh water:	100'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	330	Water	
Top of Salt	450	Salt	
Base of Salt	1505	Salt	
Lamar	1707	Salt Water	
Delaware	1753	Salt Water	
Bone Spring Lime	5211	Oil/Gas	
1st Bone Spring	6109	Oil/Gas	
2nd Bone Spring	6987	Oil/Gas	
3rd Bone spring	7834	Oil/Gas	
Wolfcamp	8131	Oil/Gas	
Wolfcamp X Sand	8139	Oil/Gas	
Wolfcamp Y Sand	8202	Target Oil/Gas	
x	x	Not Penetrated	
x	x	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body
	From	To							
13.5"	0	355	10.75"	45.5	J55	BTC	12.87	1.26	44.27
9.875"	0	7700	7.625"	29.7	HCL80	BTC	1.84	1.60	3.17
6.75"	0	7500	5.5"	20	P110	BTC	2.83	2.94	4.84
6.75"	7500	16,485	5"	18	P110	BTC	2.83	2.94	4.84
			BLM Minimum Safety Factor				1.125	1	1.6 Dry 1.8 Wet

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

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

Titus Oil & Gas Production, LLC - Chicken Noodle State 402H

	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 3rd 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 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	Y
If yes, are there three strings cemented to surface?	Y

Titus Oil & Gas Production, LLC - Chicken Noodle State 402H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	350	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Int Stg 1	450	10.3	3.6	22.95	16	TXI Lightwieght Blend
	300	15.0	1.27	5.72	8	Tail: Class H
Int Stg 2	250	12.7	2.0	11.16	16	TXI Lightwieght Blend
	100	14.8	1.33	6.33	8	Tail: Class H
Prod	400	11.9	2.5	19	72	Lead: 50:50:10 H Blend
	1000	14.2	1.3	6.2	19	Tail: 50:50:2 Class H Blend

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

The DVT/ECP will be place +/- 1,725' near the Lamar in gauge competent formation.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results
Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

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

Titus Oil & Gas Production, LLC - Chicken Noodle State 402H

4. Pressure Control Equipment

N	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	Type	x	Tested to:
9-7/8”	13-5/8”	3M	Annular	x	3000 psi
			Blind Ram		3M
			Pipe Ram		
			Double Ram		
			Other*		
6-3/4”	13-5/8”	5M	Annular	x	50% testing pressure
			Blind Ram	x	5M
			VBR Ram	x	
			VBR Ram	x	
			Other*		

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

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

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

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

Titus Oil & Gas Production, LLC - Chicken Noodle State 402H

5. Mud Program

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

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

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 - Chicken Noodle State 402H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5140 psi at 8374' TVD
Abnormal Temperature	NO 145 Deg. F.

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

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

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

8. Other Facets of Operation

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

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

TITUS OIL GAS LLC

PHOENIX TECHNOLOGY SERVICES

Project: Eddy County, NM (NAD83 NME)
Site: Chicken Noodle Fed Com
Well: 402H
Wellbore: OH
Design: Plan 2 09-24-21
Rig: H&P 474

Azimuths to Grid North
True North: 0.02°
Magnetic North: 7.14°

Magnetic Field
Strength: 47506.4nT
Dip Angle: 59.56°
Date: 9/24/2021
Model: MVHD

RKB @ 3670.19usft (H&P 474)
Ground: 3643.69

WELL DETAILS

3643.69

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	384828.94	529916.19	32° 3' 28.689296 N	104° 22' 12.723242 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTPv2 - Chicken Noodle Fed Com 402H	8234.00	-179.33	783.87	384649.61	530700.06	32° 3' 26.917147 N	104° 22' 3.613489 W
BHLv2 - Chicken Noodle Fed Com 402H	8374.00	7670.97	846.31	392499.91	530762.50	32° 4' 44.606324 N	104° 22' 2.916761 W
LTPv2 - Chicken Noodle Fed Com 402H	8374.00	7580.97	846.21	392409.91	530762.40	32° 4' 43.715657 N	104° 22' 2.917592 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00		KOP, Begin 1.50°/100' Build
3	2666.92	13.00	131.54	2659.50	-64.96	73.32	1.50	131.54	-64.37		Hold 13.00° Inc at 131.54° Azm
4	6426.34	13.00	131.54	6322.50	-625.94	706.48	0.00	0.00	-620.25		Begin 1.50°/100' Drop
5	7293.26	0.00	360.00	7182.00	-690.90	779.80	1.50	180.00	-684.61		Begin Vertical Hold
6	7824.47	0.00	360.00	7713.21	-690.90	779.80	0.00	0.00	-684.61		KOP2, Begin 11.00°/100' Build
7	8633.36	88.98	0.46	8234.00	-179.33	783.87	11.00	0.46	-173.03	FTPv2 - Chicken Noodle Fed Com 402H	LP, Hold 88.98° Inc at 0.46° Azm
8	16485.16	88.98	0.46	8374.00	7670.97	846.31	0.00	0.00	7677.52	BHLv2 - Chicken Noodle Fed Com 402H	TD at 16485.16

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone

Local Origin: Well 402H, Grid North

Latitude: 32° 3' 28.689296 N
Longitude: 104° 22' 12.723242 W

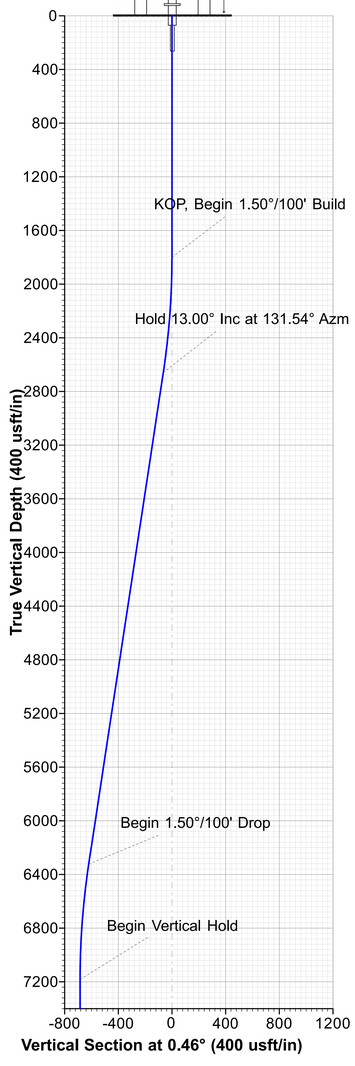
Grid East: 529916.19
Grid North: 384828.94
Scale Factor: 1.000

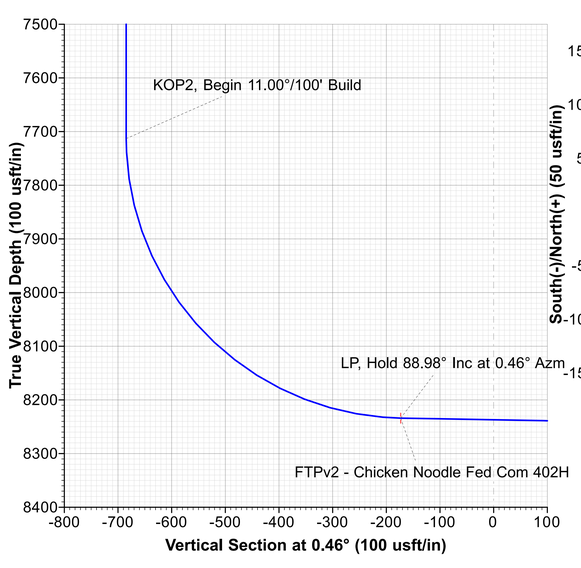
Geomagnetic Model: MVHD
Sample Date: 24-Sep-21
Magnetic Declination: 7.12°
Dip Angle from Horizontal: 59.56°
Magnetic Field Strength: 47506.44222630nT

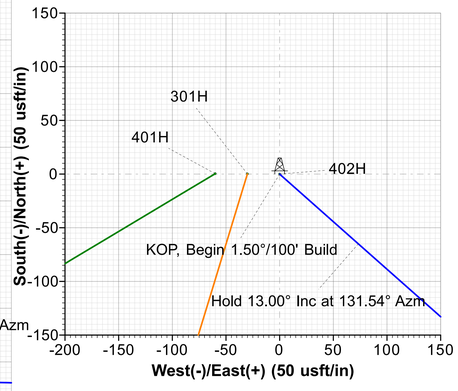
To convert a Magnetic Direction to a Grid Direction, Add 7.14°
To convert a Magnetic Direction to a True Direction, Add 7.12° East
To convert a True Direction to a Grid Direction, Add 0.02°

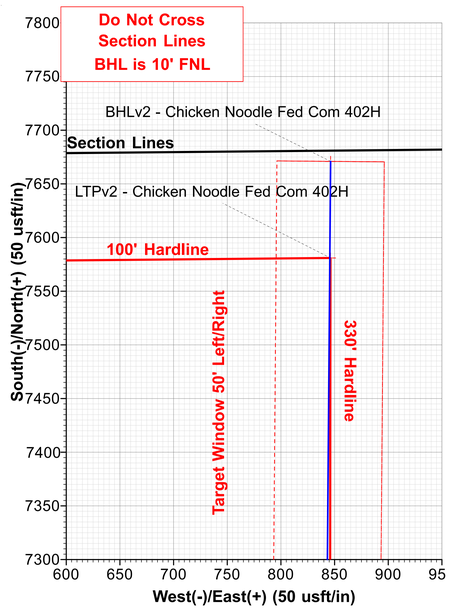
LEGEND

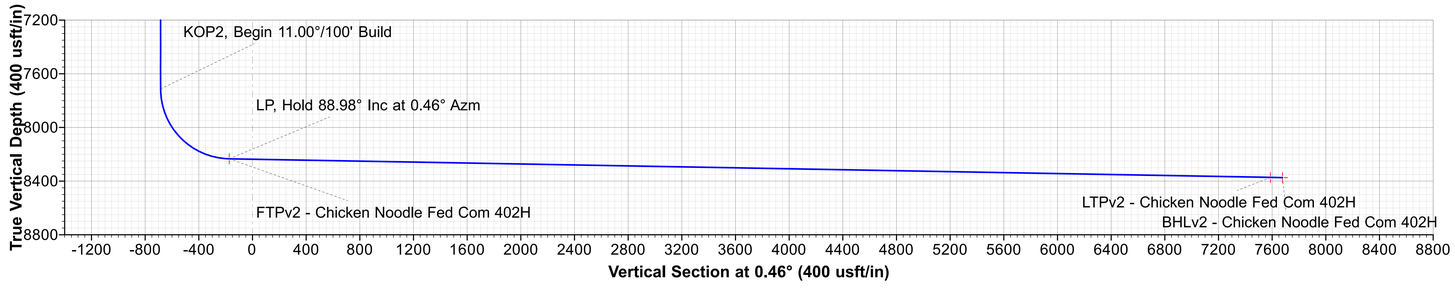
- 401H, OH, Plan 2 09-24-21 V0
- 1, OH, Surveys V0
- 301H, OH, Plan 2 09-24-21 V0
- 1, OH, Surveys V0
- Plan 2 09-24-21

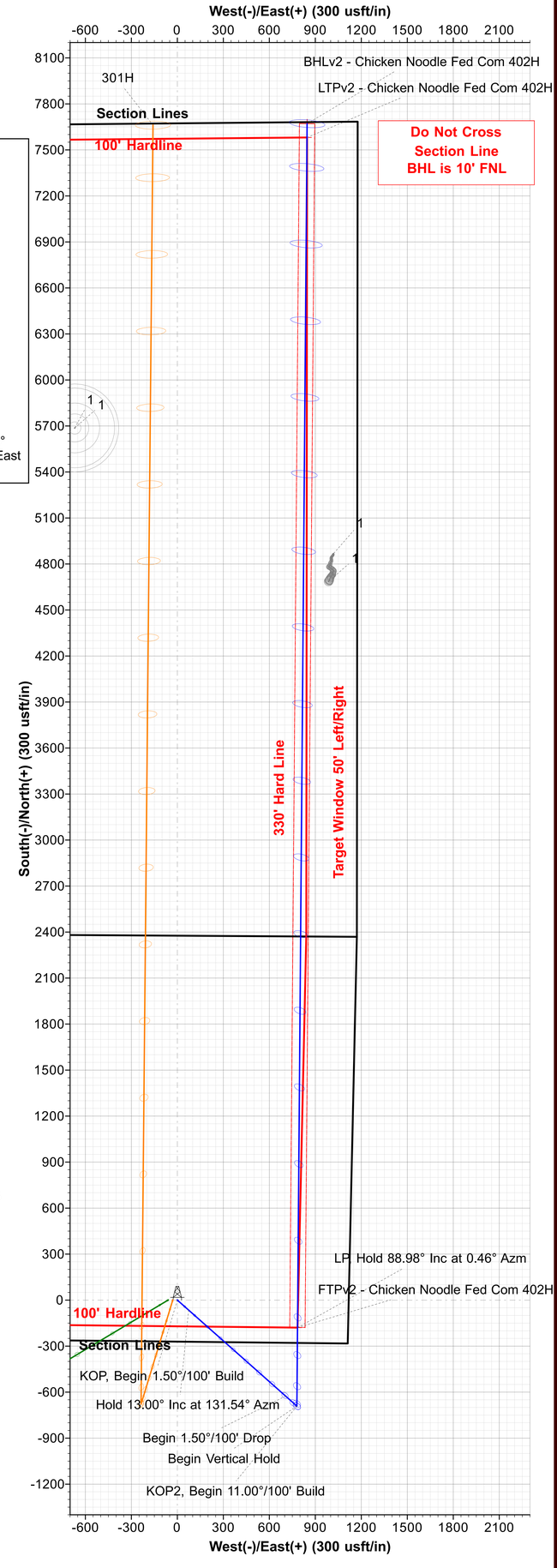












Date: 14:04, September 28 2021

PHOENIX
TECHNOLOGY SERVICES

Titus Oil & Gas Production, LLC

Eddy County, NM (NAD83 NME)
Chicken Noodle Fed Com
402H

OH

Plan: Plan 2 09-24-21

Standard Planning Report

24 September, 2021

TITUS OIL GAS LLC

PHOENIX TECHNOLOGY SERVICES

Planning Report

TITUS OIL GAS LLC

Database:	USA Compass	**Local Co-ordinate Reference:**	Well 402H
Company:	Titus Oil & Gas Production, LLC	**TVD Reference:**	RKB @ 3670.19usft (H&P 474)
Project:	Eddy County, NM (NAD83 NME)	**MD Reference:**	RKB @ 3670.19usft (H&P 474)
Site:	Chicken Noodle Fed Com	**North Reference:**	Grid
Well:	402H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2 09-24-21		

Project Eddy 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 Chicken Noodle Fed Com

Site Position:		**Northing:**	384,355.64 usft	**Latitude:**	32° 3' 24.001920 N
From:	Map	**Easting:**	528,929.19 usft	**Longitude:**	104° 22' 24.190824 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	-0.02 °

Well 402H

Well Position	**+N/-S**	473.30 usft	**Northing:**	384,828.94 usft	**Latitude:**	32° 3' 28.689296 N
	+E/-W	987.00 usft	**Easting:**	529,916.19 usft	**Longitude:**	104° 22' 12.723243 W
Position Uncertainty		1.00 usft	**Wellhead Elevation:**		**Ground Level:**	3,643.69 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	9/24/2021	7.12	59.56	47,506.44222629

Design Plan 2 09-24-21

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	0.46

Plan Survey Tool Program **Date** 9/24/2021

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,484.70	Plan 2 09-24-21 (OH)	MWD+HRGM	
				OWSG MWD + HRGM	

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	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,666.92	13.00	131.54	2,659.50	-64.96	73.32	1.50	1.50	0.00	131.54	
6,426.34	13.00	131.54	6,322.50	-625.94	706.48	0.00	0.00	0.00	0.00	
7,293.26	0.00	360.00	7,182.00	-690.90	779.80	1.50	-1.50	0.00	180.00	
7,824.47	0.00	360.00	7,713.21	-690.90	779.80	0.00	0.00	0.00	0.00	
8,633.36	88.98	0.46	8,234.00	-179.33	783.87	11.00	11.00	0.00	0.46	FTPv2 - Chicken Noo
16,485.16	88.98	0.46	8,374.00	7,670.97	846.31	0.00	0.00	0.00	0.00	BHLv2 - Chicken Noo

PHOENIX TECHNOLOGY SERVICES

Planning Report

TITUS OIL GAS LLC

Database:	USA Compass	**Local Co-ordinate Reference:**	Well 402H
Company:	Titus Oil & Gas Production, LLC	**TVD Reference:**	RKB @ 3670.19usft (H&P 474)
Project:	Eddy County, NM (NAD83 NME)	**MD Reference:**	RKB @ 3670.19usft (H&P 474)
Site:	Chicken Noodle Fed Com	**North Reference:**	Grid
Well:	402H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2 09-24-21		

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
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 1.50°/100' Build									
1,900.00	1.50	131.54	1,899.99	-0.87	0.98	-0.86	1.50	1.50	0.00
2,000.00	3.00	131.54	1,999.91	-3.47	3.92	-3.44	1.50	1.50	0.00
2,100.00	4.50	131.54	2,099.69	-7.81	8.81	-7.74	1.50	1.50	0.00
2,200.00	6.00	131.54	2,199.27	-13.88	15.66	-13.75	1.50	1.50	0.00
2,300.00	7.50	131.54	2,298.57	-21.67	24.46	-21.47	1.50	1.50	0.00
2,400.00	9.00	131.54	2,397.54	-31.19	35.20	-30.90	1.50	1.50	0.00
2,500.00	10.50	131.54	2,496.09	-42.42	47.87	-42.03	1.50	1.50	0.00
2,600.00	12.00	131.54	2,594.16	-55.35	62.48	-54.85	1.50	1.50	0.00
2,666.92	13.00	131.54	2,659.50	-64.96	73.32	-64.37	1.50	1.50	0.00
Hold 13.00° Inc at 131.54° Azm									
2,700.00	13.00	131.54	2,691.73	-69.90	78.89	-69.26	0.00	0.00	0.00
2,800.00	13.00	131.54	2,789.16	-84.82	95.73	-84.05	0.00	0.00	0.00
2,900.00	13.00	131.54	2,886.60	-99.74	112.57	-98.83	0.00	0.00	0.00
3,000.00	13.00	131.54	2,984.03	-114.66	129.42	-113.62	0.00	0.00	0.00
3,100.00	13.00	131.54	3,081.47	-129.58	146.26	-128.41	0.00	0.00	0.00
3,200.00	13.00	131.54	3,178.91	-144.51	163.10	-143.19	0.00	0.00	0.00
3,300.00	13.00	131.54	3,276.34	-159.43	179.94	-157.98	0.00	0.00	0.00
3,400.00	13.00	131.54	3,373.78	-174.35	196.78	-172.76	0.00	0.00	0.00
3,500.00	13.00	131.54	3,471.21	-189.27	213.63	-187.55	0.00	0.00	0.00
3,600.00	13.00	131.54	3,568.65	-204.19	230.47	-202.34	0.00	0.00	0.00
3,700.00	13.00	131.54	3,666.08	-219.12	247.31	-217.12	0.00	0.00	0.00
3,800.00	13.00	131.54	3,763.52	-234.04	264.15	-231.91	0.00	0.00	0.00
3,900.00	13.00	131.54	3,860.95	-248.96	280.99	-246.70	0.00	0.00	0.00
4,000.00	13.00	131.54	3,958.39	-263.88	297.84	-261.48	0.00	0.00	0.00
4,100.00	13.00	131.54	4,055.83	-278.80	314.68	-276.27	0.00	0.00	0.00
4,200.00	13.00	131.54	4,153.26	-293.72	331.52	-291.05	0.00	0.00	0.00
4,300.00	13.00	131.54	4,250.70	-308.65	348.36	-305.84	0.00	0.00	0.00
4,400.00	13.00	131.54	4,348.13	-323.57	365.21	-320.63	0.00	0.00	0.00
4,500.00	13.00	131.54	4,445.57	-338.49	382.05	-335.41	0.00	0.00	0.00
4,600.00	13.00	131.54	4,543.00	-353.41	398.89	-350.20	0.00	0.00	0.00
4,700.00	13.00	131.54	4,640.44	-368.33	415.73	-364.99	0.00	0.00	0.00
4,800.00	13.00	131.54	4,737.87	-383.26	432.57	-379.77	0.00	0.00	0.00
4,900.00	13.00	131.54	4,835.31	-398.18	449.42	-394.56	0.00	0.00	0.00
5,000.00	13.00	131.54	4,932.75	-413.10	466.26	-409.34	0.00	0.00	0.00
5,100.00	13.00	131.54	5,030.18	-428.02	483.10	-424.13	0.00	0.00	0.00
5,200.00	13.00	131.54	5,127.62	-442.94	499.94	-438.92	0.00	0.00	0.00
5,300.00	13.00	131.54	5,225.05	-457.87	516.78	-453.70	0.00	0.00	0.00
5,400.00	13.00	131.54	5,322.49	-472.79	533.63	-468.49	0.00	0.00	0.00
5,500.00	13.00	131.54	5,419.92	-487.71	550.47	-483.28	0.00	0.00	0.00
5,600.00	13.00	131.54	5,517.36	-502.63	567.31	-498.06	0.00	0.00	0.00
5,700.00	13.00	131.54	5,614.79	-517.55	584.15	-512.85	0.00	0.00	0.00
5,800.00	13.00	131.54	5,712.23	-532.48	600.99	-527.63	0.00	0.00	0.00
5,900.00	13.00	131.54	5,809.66	-547.40	617.84	-542.42	0.00	0.00	0.00
6,000.00	13.00	131.54	5,907.10	-562.32	634.68	-557.21	0.00	0.00	0.00
6,100.00	13.00	131.54	6,004.54	-577.24	651.52	-571.99	0.00	0.00	0.00
6,200.00	13.00	131.54	6,101.97	-592.16	668.36	-586.78	0.00	0.00	0.00
6,300.00	13.00	131.54	6,199.41	-607.09	685.20	-601.56	0.00	0.00	0.00
6,400.00	13.00	131.54	6,296.84	-622.01	702.05	-616.35	0.00	0.00	0.00
6,426.34	13.00	131.54	6,322.50	-625.94	706.48	-620.25	0.00	0.00	0.00
Begin 1.50°/100' Drop									

PHOENIX TECHNOLOGY SERVICES

Planning Report

TITUS OIL GAS LLC

Database:	USA Compass	**Local Co-ordinate Reference:**	Well 402H
Company:	Titus Oil & Gas Production, LLC	**TVD Reference:**	RKB @ 3670.19usft (H&P 474)
Project:	Eddy County, NM (NAD83 NME)	**MD Reference:**	RKB @ 3670.19usft (H&P 474)
Site:	Chicken Noodle Fed Com	**North Reference:**	Grid
Well:	402H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2 09-24-21		

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)
6,500.00	11.90	131.54	6,394.43	-636.47	718.37	-630.68	1.50	-1.50	0.00
6,600.00	10.40	131.54	6,492.54	-649.29	732.84	-643.39	1.50	-1.50	0.00
6,700.00	8.90	131.54	6,591.13	-660.41	745.39	-654.40	1.50	-1.50	0.00
6,800.00	7.40	131.54	6,690.11	-669.81	756.00	-663.72	1.50	-1.50	0.00
6,900.00	5.90	131.54	6,789.44	-677.48	764.66	-671.32	1.50	-1.50	0.00
7,000.00	4.40	131.54	6,889.03	-683.44	771.38	-677.22	1.50	-1.50	0.00
7,100.00	2.90	131.54	6,988.83	-687.66	776.14	-681.40	1.50	-1.50	0.00
7,200.00	1.40	131.54	7,088.75	-690.14	778.95	-683.87	1.50	-1.50	0.00
7,293.26	0.00	360.00	7,182.00	-690.90	779.80	-684.61	1.50	-1.50	0.00
Begin Vertical Hold									
7,824.47	0.00	0.00	7,713.21	-690.90	779.80	-684.61	0.00	0.00	0.00
KOP2, Begin 11.00°/100' Build									
7,900.00	8.31	0.46	7,788.48	-685.43	779.84	-679.15	11.00	11.00	0.00
8,000.00	19.31	0.46	7,885.44	-661.60	780.03	-655.32	11.00	11.00	0.00
8,100.00	30.31	0.46	7,976.07	-619.71	780.37	-613.42	11.00	11.00	0.00
8,200.00	41.31	0.46	8,057.05	-561.29	780.83	-555.00	11.00	11.00	0.00
8,300.00	52.31	0.46	8,125.38	-488.50	781.41	-482.21	11.00	11.00	0.00
8,400.00	63.31	0.46	8,178.58	-404.00	782.08	-397.71	11.00	11.00	0.00
8,500.00	74.31	0.46	8,214.67	-310.91	782.82	-304.62	11.00	11.00	0.00
8,600.00	85.31	0.46	8,232.34	-212.64	783.61	-206.35	11.00	11.00	0.00
8,633.36	88.98	0.46	8,234.00	-179.33	783.87	-173.03	11.00	11.00	0.00
LP, Hold 88.98° Inc at 0.46° Azm									
8,700.00	88.98	0.46	8,235.19	-112.71	784.40	-106.40	0.00	0.00	0.00
8,800.00	88.98	0.46	8,236.97	-12.72	785.20	-6.42	0.00	0.00	0.00
8,900.00	88.98	0.46	8,238.75	87.26	785.99	93.56	0.00	0.00	0.00
9,000.00	88.98	0.46	8,240.54	187.24	786.79	193.55	0.00	0.00	0.00
9,100.00	88.98	0.46	8,242.32	287.22	787.58	293.53	0.00	0.00	0.00
9,200.00	88.98	0.46	8,244.10	387.20	788.38	393.52	0.00	0.00	0.00
9,300.00	88.98	0.46	8,245.89	487.18	789.17	493.50	0.00	0.00	0.00
9,400.00	88.98	0.46	8,247.67	587.16	789.97	593.48	0.00	0.00	0.00
9,500.00	88.98	0.46	8,249.45	687.14	790.76	693.47	0.00	0.00	0.00
9,600.00	88.98	0.46	8,251.24	787.12	791.56	793.45	0.00	0.00	0.00
9,700.00	88.98	0.46	8,253.02	887.10	792.35	893.44	0.00	0.00	0.00
9,800.00	88.98	0.46	8,254.80	987.09	793.15	993.42	0.00	0.00	0.00
9,900.00	88.98	0.46	8,256.58	1,087.07	793.94	1,093.41	0.00	0.00	0.00
10,000.00	88.98	0.46	8,258.37	1,187.05	794.74	1,193.39	0.00	0.00	0.00
10,100.00	88.98	0.46	8,260.15	1,287.03	795.53	1,293.37	0.00	0.00	0.00
10,200.00	88.98	0.46	8,261.93	1,387.01	796.33	1,393.36	0.00	0.00	0.00
10,300.00	88.98	0.46	8,263.72	1,486.99	797.12	1,493.34	0.00	0.00	0.00
10,400.00	88.98	0.46	8,265.50	1,586.97	797.92	1,593.33	0.00	0.00	0.00
10,500.00	88.98	0.46	8,267.28	1,686.95	798.71	1,693.31	0.00	0.00	0.00
10,600.00	88.98	0.46	8,269.07	1,786.93	799.51	1,793.29	0.00	0.00	0.00
10,700.00	88.98	0.46	8,270.85	1,886.91	800.30	1,893.28	0.00	0.00	0.00
10,800.00	88.98	0.46	8,272.63	1,986.89	801.10	1,993.26	0.00	0.00	0.00
10,900.00	88.98	0.46	8,274.42	2,086.88	801.90	2,093.25	0.00	0.00	0.00
11,000.00	88.98	0.46	8,276.20	2,186.86	802.69	2,193.23	0.00	0.00	0.00
11,100.00	88.98	0.46	8,277.98	2,286.84	803.49	2,293.21	0.00	0.00	0.00
11,200.00	88.98	0.46	8,279.76	2,386.82	804.28	2,393.20	0.00	0.00	0.00
11,300.00	88.98	0.46	8,281.55	2,486.80	805.08	2,493.18	0.00	0.00	0.00
11,400.00	88.98	0.46	8,283.33	2,586.78	805.87	2,593.17	0.00	0.00	0.00
11,500.00	88.98	0.46	8,285.11	2,686.76	806.67	2,693.15	0.00	0.00	0.00
11,600.00	88.98	0.46	8,286.90	2,786.74	807.46	2,793.13	0.00	0.00	0.00
11,700.00	88.98	0.46	8,288.68	2,886.72	808.26	2,893.12	0.00	0.00	0.00

PHOENIX TECHNOLOGY SERVICES

Planning Report

TITUS OIL GAS LLC

Database:	USA Compass	**Local Co-ordinate Reference:**	Well 402H
Company:	Titus Oil & Gas Production, LLC	**TVD Reference:**	RKB @ 3670.19usft (H&P 474)
Project:	Eddy County, NM (NAD83 NME)	**MD Reference:**	RKB @ 3670.19usft (H&P 474)
Site:	Chicken Noodle Fed Com	**North Reference:**	Grid
Well:	402H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2 09-24-21		

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)
11,800.00	88.98	0.46	8,290.46	2,986.70	809.05	2,993.10	0.00	0.00	0.00
11,900.00	88.98	0.46	8,292.25	3,086.68	809.85	3,093.09	0.00	0.00	0.00
12,000.00	88.98	0.46	8,294.03	3,186.67	810.64	3,193.07	0.00	0.00	0.00
12,100.00	88.98	0.46	8,295.81	3,286.65	811.44	3,293.06	0.00	0.00	0.00
12,200.00	88.98	0.46	8,297.59	3,386.63	812.23	3,393.04	0.00	0.00	0.00
12,300.00	88.98	0.46	8,299.38	3,486.61	813.03	3,493.02	0.00	0.00	0.00
12,400.00	88.98	0.46	8,301.16	3,586.59	813.82	3,593.01	0.00	0.00	0.00
12,500.00	88.98	0.46	8,302.94	3,686.57	814.62	3,692.99	0.00	0.00	0.00
12,600.00	88.98	0.46	8,304.73	3,786.55	815.41	3,792.98	0.00	0.00	0.00
12,700.00	88.98	0.46	8,306.51	3,886.53	816.21	3,892.96	0.00	0.00	0.00
12,800.00	88.98	0.46	8,308.29	3,986.51	817.00	3,992.94	0.00	0.00	0.00
12,900.00	88.98	0.46	8,310.08	4,086.49	817.80	4,092.93	0.00	0.00	0.00
13,000.00	88.98	0.46	8,311.86	4,186.48	818.59	4,192.91	0.00	0.00	0.00
13,100.00	88.98	0.46	8,313.64	4,286.46	819.39	4,292.90	0.00	0.00	0.00
13,200.00	88.98	0.46	8,315.42	4,386.44	820.19	4,392.88	0.00	0.00	0.00
13,300.00	88.98	0.46	8,317.21	4,486.42	820.98	4,492.86	0.00	0.00	0.00
13,400.00	88.98	0.46	8,318.99	4,586.40	821.78	4,592.85	0.00	0.00	0.00
13,500.00	88.98	0.46	8,320.77	4,686.38	822.57	4,692.83	0.00	0.00	0.00
13,600.00	88.98	0.46	8,322.56	4,786.36	823.37	4,792.82	0.00	0.00	0.00
13,700.00	88.98	0.46	8,324.34	4,886.34	824.16	4,892.80	0.00	0.00	0.00
13,800.00	88.98	0.46	8,326.12	4,986.32	824.96	4,992.79	0.00	0.00	0.00
13,900.00	88.98	0.46	8,327.91	5,086.30	825.75	5,092.77	0.00	0.00	0.00
14,000.00	88.98	0.46	8,329.69	5,186.28	826.55	5,192.75	0.00	0.00	0.00
14,100.00	88.98	0.46	8,331.47	5,286.27	827.34	5,292.74	0.00	0.00	0.00
14,200.00	88.98	0.46	8,333.26	5,386.25	828.14	5,392.72	0.00	0.00	0.00
14,300.00	88.98	0.46	8,335.04	5,486.23	828.93	5,492.71	0.00	0.00	0.00
14,400.00	88.98	0.46	8,336.82	5,586.21	829.73	5,592.69	0.00	0.00	0.00
14,500.00	88.98	0.46	8,338.60	5,686.19	830.52	5,692.67	0.00	0.00	0.00
14,600.00	88.98	0.46	8,340.39	5,786.17	831.32	5,792.66	0.00	0.00	0.00
14,700.00	88.98	0.46	8,342.17	5,886.15	832.11	5,892.64	0.00	0.00	0.00
14,800.00	88.98	0.46	8,343.95	5,986.13	832.91	5,992.63	0.00	0.00	0.00
14,900.00	88.98	0.46	8,345.74	6,086.11	833.70	6,092.61	0.00	0.00	0.00
15,000.00	88.98	0.46	8,347.52	6,186.09	834.50	6,192.59	0.00	0.00	0.00
15,100.00	88.98	0.46	8,349.30	6,286.08	835.29	6,292.58	0.00	0.00	0.00
15,200.00	88.98	0.46	8,351.09	6,386.06	836.09	6,392.56	0.00	0.00	0.00
15,300.00	88.98	0.46	8,352.87	6,486.04	836.89	6,492.55	0.00	0.00	0.00
15,400.00	88.98	0.46	8,354.65	6,586.02	837.68	6,592.53	0.00	0.00	0.00
15,500.00	88.98	0.46	8,356.43	6,686.00	838.48	6,692.52	0.00	0.00	0.00
15,600.00	88.98	0.46	8,358.22	6,785.98	839.27	6,792.50	0.00	0.00	0.00
15,700.00	88.98	0.46	8,360.00	6,885.96	840.07	6,892.48	0.00	0.00	0.00
15,800.00	88.98	0.46	8,361.78	6,985.94	840.86	6,992.47	0.00	0.00	0.00
15,900.00	88.98	0.46	8,363.57	7,085.92	841.66	7,092.45	0.00	0.00	0.00
16,000.00	88.98	0.46	8,365.35	7,185.90	842.45	7,192.44	0.00	0.00	0.00
16,100.00	88.98	0.46	8,367.13	7,285.88	843.25	7,292.42	0.00	0.00	0.00
16,200.00	88.98	0.46	8,368.92	7,385.87	844.04	7,392.40	0.00	0.00	0.00
16,300.00	88.98	0.46	8,370.70	7,485.85	844.84	7,492.39	0.00	0.00	0.00
16,400.00	88.98	0.46	8,372.48	7,585.83	845.63	7,592.37	0.00	0.00	0.00
16,485.16	88.98	0.46	8,374.00	7,670.97	846.31	7,677.52	0.00	0.00	0.00
TD at 16485.16									

PHOENIX TECHNOLOGY SERVICES

Planning Report

TITUS OIL GAS LLC

Database:	USA Compass	**Local Co-ordinate Reference:**	Well 402H
Company:	Titus Oil & Gas Production, LLC	**TVD Reference:**	RKB @ 3670.19usft (H&P 474)
Project:	Eddy County, NM (NAD83 NME)	**MD Reference:**	RKB @ 3670.19usft (H&P 474)
Site:	Chicken Noodle Fed Com	**North Reference:**	Grid
Well:	402H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2 09-24-21		

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
FTPv2 - Chicken Noodle - plan hits target center - Point	0.00	360.00	8,234.00	-179.33	783.87	384,649.61	530,700.06	32° 3' 26.917147 N	104° 22' 3.613489 W
LTPv2 - Chicken Noodle - plan misses target center by 1.72usft at 16395.18usft MD (8372.40 TVD, 7581.00 N, 845.59 E) - Point	0.00	360.00	8,374.00	7,580.97	846.21	392,409.91	530,762.40	32° 4' 43.715657 N	104° 22' 2.917592 W
BHLv2 - Chicken Noodle - plan hits target center - Point	0.00	360.00	8,374.00	7,670.97	846.31	392,499.91	530,762.50	32° 4' 44.606324 N	104° 22' 2.916761 W

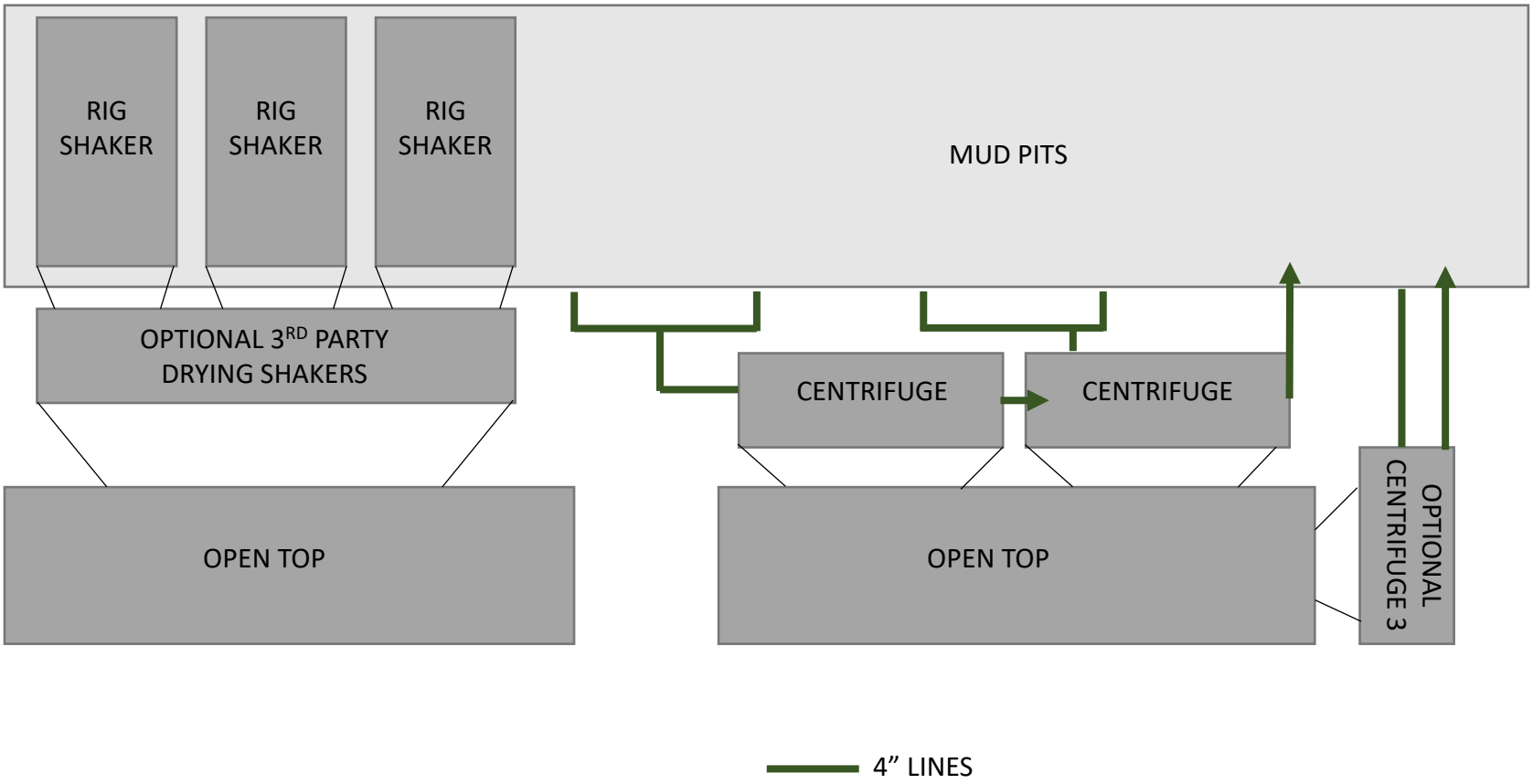
Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
16,484.22	8,373.98	20" Casing	20	24

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,800.00	1,800.00	0.00	0.00	KOP, Begin 1.50°/100' Build
2,666.92	2,659.50	-64.96	73.32	Hold 13.00° Inc at 131.54° Azm
6,426.34	6,322.50	-625.94	706.48	Begin 1.50°/100' Drop
7,293.26	7,182.00	-690.90	779.80	Begin Vertical Hold
7,824.47	7,713.21	-690.90	779.80	KOP2, Begin 11.00°/100' Build
8,633.36	8,234.00	-179.33	783.87	LP, Hold 88.98° Inc at 0.46° Azm
16,485.16	8,374.00	7,670.97	846.31	TD at 16485.16

CLOSED LOOP 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 98091

CONDITIONS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 98091
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Will require a administrative order for non-standard location prior to placing the well on production	4/14/2022
kpickford	Notify OCD 24 hours prior to casing & cement	4/14/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/14/2022
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	4/14/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	4/14/2022
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	4/14/2022