Form 3160-3 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR

OCD - HOBBS 12/01/2020 **RECEIVED**

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

5. Lease Serial No.

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER					6. If Indian, Allotee or Tribe Name		
1a. Type of work: DRILL REENTER				7. If Uni	7. If Unit or CA Agreement, Name and No.		
1b. Type of Well: Oil Well Gas Well Other					Name and Well 1	No	
1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone				o. Lease	Name and wen i	NO.	
		_	_		[3298]	79]	
2. Name of Operator [373986]			9. API W	^{/ell No.} 30-0 2	25-48123		
3a. Address	3b	. Phone No	. (include area code)	10. Field	and Pool, or Exp	ploratory [96672]	
4. Location of Well (Report location	clearly and in accordance with	any State re	equirements.*)	11. Sec.,	T. R. M. or Blk.	and Survey or Area	
At surface							
At proposed prod. zone							
14. Distance in miles and direction from nearest town or post office*					nty or Parish	13. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if		6. No of acre	es in lease 17	Spacing Unit de	edicated to this we	ell	
18. Distance from proposed location		9. Proposed	Depth 20	BLM/BIA Bond	l No. in file		
to nearest well, drilling, complete applied for, on this lease, ft.							
21. Elevations (Show whether DF, K	DB, RT, GL, etc.)	2. Approxim	ate date work will star	t* 23. Estir	nated duration		
		24. Attach	ments	·			
The following, completed in accorda (as applicable)	nce with the requirements of Or	nshore Oil a	nd Gas Order No. 1, an	d the Hydraulic l	Fracturing rule pe	er 43 CFR 3162.3-3	
1. Well plat certified by a registered s 2. A Drilling Plan.	urveyor.		4. Bond to cover the op Item 20 above).	perations unless co	overed by an exist	ting bond on file (see	
3. A Surface Use Plan (if the location SUPO must be filed with the appro			5. Operator certification6. Such other site specificationBLM.		d/or plans as may	be requested by the	
25. Signature		Name (Name (Printed/Typed)		Date	:	
Title							
Approved by (Signature)		Name (Name (Printed/Typed)		Date	;	
Title Office							
Application approval does not warran applicant to conduct operations there		olds legal or	equitable title to those	rights in the sub	ject lease which v	would entitle the	
Conditions of approval, if any, are at							
Title 18 U.S.C. Section 1001 and Title	e 43 U.S.C. Section 1212, make	e it a crime f	for any person knowing	gly and willfully	to make to any de	epartment or agency	

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SL (Continued on page 2)



of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

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Additional Operator Remarks

Location of Well

0. SHL: TR H / 2174 FNL / 922 FEL / TWSP: 26S / RANGE: 35E / SECTION: 17 / LAT: 32.0445778 / LONG: -103.3839101 (TVD: 0 feet, MD: 0 feet) PPP: TR P / 1321 FSL / 329 FEL / TWSP: 26S / RANGE: 35E / SECTION: 17 / LAT: 32.039661 / LONG: -103.381994 (TVD: 10959 feet, MD: 13200 feet) BHL: TR P / 10 FSL / 330 FEL / TWSP: 26S / RANGE: 35E / SECTION: 20 / LAT: 32.0215338 / LONG: -103.3819735 (TVD: 10996 feet, MD: 19812 feet)

BLM Point of Contact

Name: TYLER HILL

Title: LIE

Phone: (575) 234-5972 Email: tjhill@blm.gov



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Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



(Form 3160-3, page 4)

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME: Titus Oil and Gas Production LLC LEASE NO.: NMNM104706, NMNM110841

COUNTY: Lea

Wells:

Cattlemen Well Pad 2

Cattlemen Fed Com 032H

Surface Hole Location: 2310' FNL & 1994' FWL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 1651' FWL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 112H

Surface Hole Location: 2310' FNL & 2024' FWL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 1651' FWL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 122H

Surface Hole Location: 2310' FNL & 2054' FWL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 2310' FWL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 322H

Surface Hole Location: 2084' FNL & 1994' FWL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 1651' FWL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 432H

Surface Hole Location: 2084' FNL & 2054' FWL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 2310' FWL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 512H

Surface Hole Location: 2084' FNL & 2024' FWL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 1850' FWL, Section 20, T. 26 S, R 35 E.

Cattlemen Well Pad 3

Cattlemen Fed Com 123H

Surface Hole Location: 2303' FNL & 1927' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 1651' FEL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 203H

Surface Hole Location: 2303' FNL & 1957' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 2308' FEL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 323H

Surface Hole Location: 2077' FNL & 1912' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 1650' FEL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 403H

Surface Hole Location: 2077' FNL & 1972' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 2310' FEL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 513H

Surface Hole Location: 2077' FNL & 1942' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 1870' FEL, Section 20, T. 26 S, R 35 E.

Cattlemen Well Pad 4

Cattlemen Fed Com 034H

Surface Hole Location: 2174' FNL & 892' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 330' FEL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 114H

Surface Hole Location: 2174' FNL & 952' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 989' FEL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 204H

Surface Hole Location: 2174' FNL & 922' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 330' FEL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 404H

Surface Hole Location: 1948' FNL & 892' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 330' FEL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 434H

Surface Hole Location: 1948' FNL & 952' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 989 FEL, Section 20, T. 26 S, R 35 E.

Cattlemen Fed Com 514H

Surface Hole Location: 1948' FNL & 922' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FSL & 530' FEL, Section 20, T. 26 S, R 35 E.

Lonesome Dove Pad 2

Lonesome Dove Fed Com 032H

Surface Hole Location: 1818' FSL & 1990' FWL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 1653' FWL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 112H

Surface Hole Location: 1818' FSL & 2020' FWL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 1653' FWL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 122H

Surface Hole Location: 1818' FSL & 2050' FWL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 2310' FWL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 322H

Surface Hole Location: 1592' FSL & 1990' FWL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 1653' FWL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 432H

Surface Hole Location: 1592' FSL & 2050' FWL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 2310' FWL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 512H

Surface Hole Location: 1592' FSL & 2020' FWL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 1850' FWL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Pad 3

Lonesome Dove Fed Com 123H

Surface Hole Location: 2530' FSL & 1927' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 1650' FEL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 203H

Surface Hole Location: 2530' FSL & 1957' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 2307' FEL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 323H

Surface Hole Location: 2304' FSL & 1912' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 1650' FEL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 403H

Surface Hole Location: 2304' FSL & 1972' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 2307' FEL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 513H

Surface Hole Location: 2304' FSL & 1942' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 1870' FEL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Pad 4

Lonesome Dove Fed Com 034H

Surface Hole Location: 2515' FSL & 1079' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 330' FEL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 114H

Surface Hole Location: 2515' FSL & 1139' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 988' FEL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 204H

Surface Hole Location: 2515' FSL & 1109' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 330' FEL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 404H

Surface Hole Location: 2289' FSL & 1079' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 330' FEL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 434H

Surface Hole Location: 2289' FSL & 1139' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 988' FEL, Section 8, T. 26 S, R 35 E.

Lonesome Dove Fed Com 514H

Surface Hole Location: 2289' FSL & 1109' FEL, Section 17, T. 26 S., R. 35 E. Bottom Hole Location: 10' FNL & 530' FEL, Section 8, T. 26 S, R 35 E.

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

□ General Provisions
□ Permit Expiration
☐ Archaeology, Paleontology, and Historical Sites
■ Noxious Weeds
Special Requirements
Watershed
Range
Lesser Prairie Chicken
VRM IV
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
□ Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
☐ Interim Reclamation
☐ Final Abandonment & Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See information below discussing NAGPRA.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

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Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

SPECIAL REQUIREMENT(S)

Watershed:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

TANK BATTERY:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

BURIED/SURFACE LINE(S):

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present.

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The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

ELECTRIC LINE(S):

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

TEMPORARY USE FRESH WATER FRAC LINE(S):

Once the temporary use exceeds the timeline of 180 days and/or with a 90 day extension status; further analysis will be required if the applicant pursues to turn the temporary ROW into a permanent ROW.

LOW WATER CROSSING:

A low water crossing shall be constructed on the access road where drainages/arroyos cross the road. The low water crossing shall be accomplished by constructing the road down to the bed of the drainage. Material moved from the banks of the crossing shall be stockpiled near the road edge. Gravel, cobble, or concrete bottoms shall be used as the primary material for the roadbed in the low water crossing. Constructed rock gabions will be installed up-stream of the low water crossing to slow the flow of water prior to it reaching the crossing. It is the responsibility of the permit holder (operator) to maintain the low water crossings surface and to keep it free of debris.

Range:

Cattleguards

Where a permanent cattlegaurd is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

Fence Requirement

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

If a readjustment to the existing fence line is deemed necessary by the proponent and project lead, the reroute shall proceed following consultation with the grazing allotment holder and BLM range staff. Project lead shall be responsible for making sure such reroute will not result in any impact greater than the proposed action. Operator shall be responsible for submitting new shapefiles of re-route to the BLM, as well as constructing fence to BLM Specification. No allotment boundary fences shall be moved unless explicitly discussed with the CFO Range staff.

Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

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Lesser Prairie Chicken:

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching:

Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

VRM IV:

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

V. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

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Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

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Ditching

Ditching shall be required on both sides of the road.

Turnouts

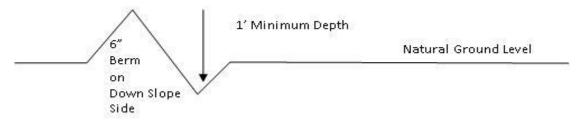
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

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Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil 4. Revegetate slopes 2. Construct road

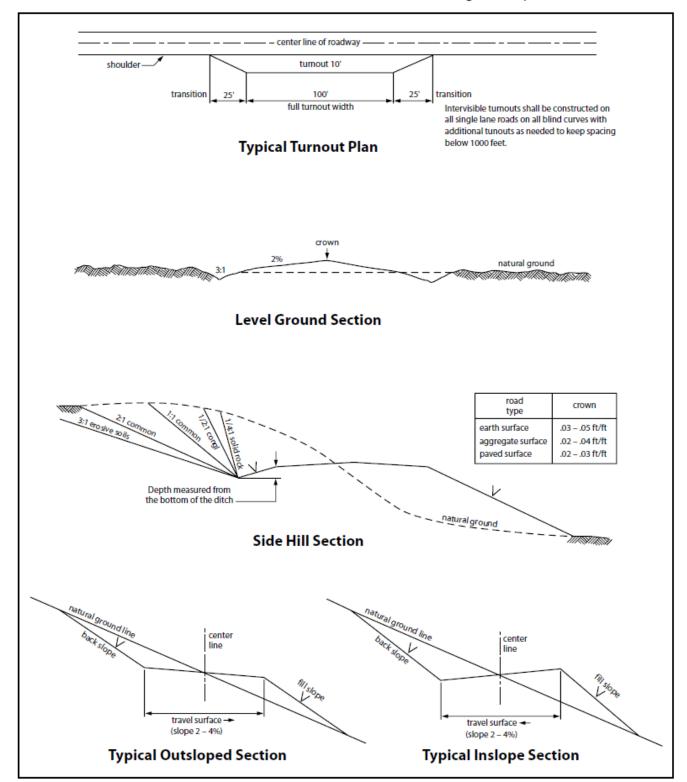


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VI. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval
 prior to pipeline installation. The method could incorporate gauges to detect pressure
 drops, situating values and lines so they can be visually inspected periodically or
 installing electronic sensors to alarm when a leak is present. The leak detection plan will
 incorporate an automatic shut off system that will be installed for proposed pipelines to
 minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the

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Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.
- 5. All construction and maintenance activity will be confined to the authorized right-of-way.
- 6. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be **30** feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
- 8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6__ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
- 9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

- 10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	() seed mixture 3
(X) seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture

- 13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2.
- 14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 17 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

- 17. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 18. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 19. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 20. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:
 - a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.

b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

21. Special Stipulations:

Karst:

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the

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Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

- 4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
 - a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
 - b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage;
 - c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.
- 6. All construction and maintenance activity shall be confined to the authorized right-of-way width of <u>30</u> feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.
- 7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.
- 8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.
- 9. The pipeline shall be buried with a minimum of _____6 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The

condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 16 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

16. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human

remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

- 17. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 18. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 19. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

C. ELECTRIC LINES

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction.
- No further construction will be done until clearance has been issued by the Authorized Officer.
- Special restoration stipulations or realignment may be required.

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls,

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- 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any

person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 11 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

- 11. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 12. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

13. Special Stipulations:

For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

VII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the

location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

VIII. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species

	lb/acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Titus Oil and Gas Production LLC

LEASE NO.: | NMNM110841

WELL NAME & NO.: Cattlemen Federal Com 204H

SURFACE HOLE FOOTAGE: 2174'/N & 922'/E **BOTTOM HOLE FOOTAGE** 10'/S & 330'/E

LOCATION: | Section 17, T.26 S., R.35 E., NMPM

COUNTY: Lea County, New Mexico

COA

H2S	O Yes	• No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	• Low	O Medium	O High
Cave/Karst Potential	O Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	O Multibowl	OBoth
Other	☐4 String Area	☐ Capitan Reef	□WIPP
Other	✓ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	□ Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1,135 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

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

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

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing and shall be set at approximately 5,395 feet is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- 3. The minimum required fill of cement behind the **5-1/2** inch production casing with a tie back into the previous casing of approximately **4,895 feet** is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi**.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **3000** (**3M**) **psi**.

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D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

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GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575)
 361-2822
 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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A. CASING

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

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B. PRESSURE CONTROL

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

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

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

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C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

YJ (10/15/2020)

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Approval Date: 11/04/2020



TITUS Oil & Gas Production, LLC

100 Throckmorton Street Suite 1630 Fort Worth, TX 76102

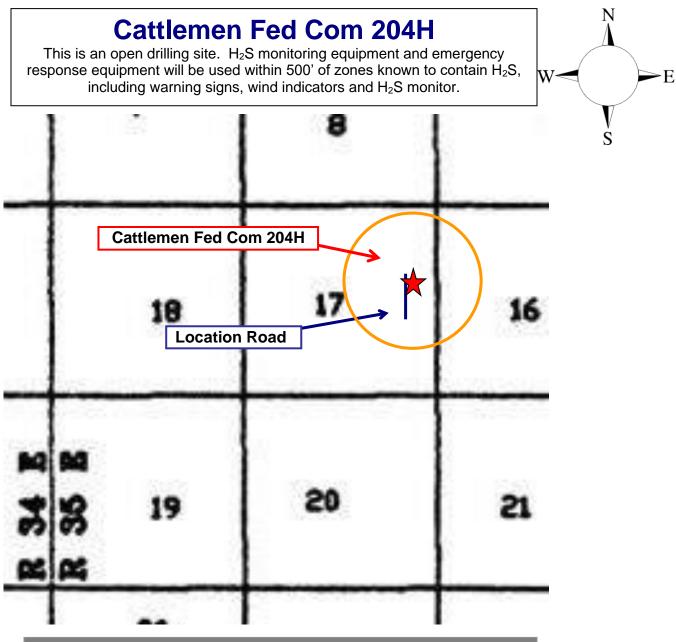
Hydrogen Sulfide (H₂S) Contingency Plan

For

Cattlemen Fed Com 204H

Sec-17 T-26S R-35E 2174 FNL & 922' FEL LAT. = 32.04457780' N (NAD83) LONG = 103.38391017' W

Lea County NM



Assumed 100 ppm ROE = 3000' (Radius of Exposure)
100 ppm H2S concentration shall trigger activation of this plan.

Escape

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

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

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

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

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

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

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

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

3. H₂S detection and monitoring equipment:

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

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

Visual warning systems:

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

4. Mud program:

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

5. Metallurgy:

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

6. Communication:

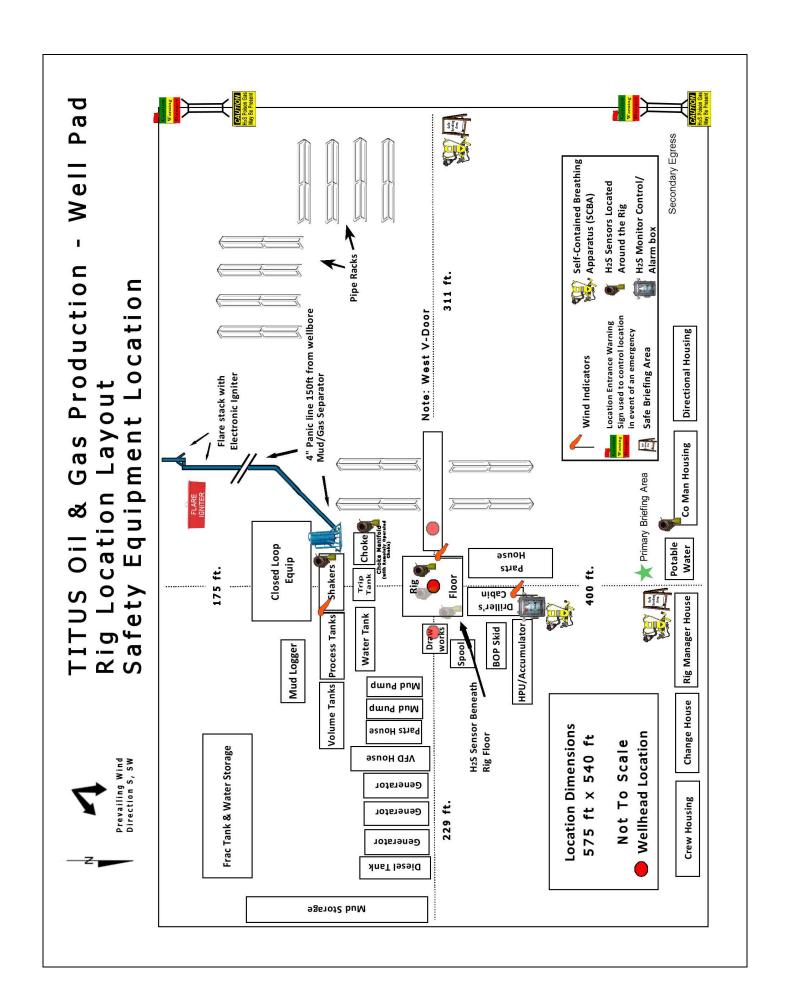
- Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

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

Titus Oil 8	& Gas Company Call List	
Drilling Su	pervisor –	
Ryan DeL		
-		
Agency	Call List	
<u>Lea</u>	Hobbs	
County	Lea County Communication Authority	393-3981
<u>(575)</u>	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
<u>Eddy</u>	Carlsbad	
County	State Police	885-3137
<u>(575)</u>	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control 915-699-0139	(915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
Give	Native Air – Emergency Helicopter – Hobbs	(575) 392-6429
GPS	Flight For Life - Lubbock, TX	(806) 743-9911
position:	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	. ,
	1	







Well Name Cattlemen Fed Com 204H

32° 2' 40.480" N Latitude Longitude 103° 23' 2.076" W

NAD83 / New Mexico East (ftUS) CRS

Plan Sections									
MD(ft)	INC(°)	AZI(°)	TVD(ft)	NS(ft)	EW(ft)	VS(ft)	DLS(°/100ft)	Tool face	Method
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	HOLD_CL
1600.00	0.00	49.97	1600.00	0.00	0.00	0.00	0.00	49.97	ADJ_CL
2050.50	9.01	49.97	2048.65	22.74	27.07	-20.49	2.00	49.97	BT_INC
7850.12	9.01	49.97	7776.70	606.92	722.53	-547.02	0.00	0.00	HOLD_CL
8450.79	0.00	49.97	8374.90	637.23	758.62	-574.34	1.50	180.00	BT_INC
10450.79	0.00	179.44	10374.90	637.23	758.62	-574.34	0.00	179.44	ADJ_CL
11347.49	89.67	179.44	10947.85	67.60	764.19	-6.10	10.00	179.44	BT_INC
11847.49	89.67	199.44	10950.76	-423.12	682.59	476.50	4.00	90.06	BT_AZI
12347.49	89.67	179.44	10953.67	-913.84	601.00	959.09	4.00	-90.06	BT_AZI
19812.41	89.67	179.44	10996.66	-8378.28	673.96	8405.34	0.00	0.00	HOLD_CL



North Reference Magnetic Declination Grid Convergence Dip angle Magnetic Model Total Field (nT) TRUE to GRID: MAG to GRID:

6 571 0.50 59.893 IGRF12.COF 47587.534 16/1/2020 Add -0.50

Well Name Cattlemen Fed Com 204H RTE Elevation 0.00 Ft above Ground Level **GL** Elevation Calculation Method Local Co-Ordinate Ref **Grid East Grid North** Local North Local East Latitude Longitude CRS

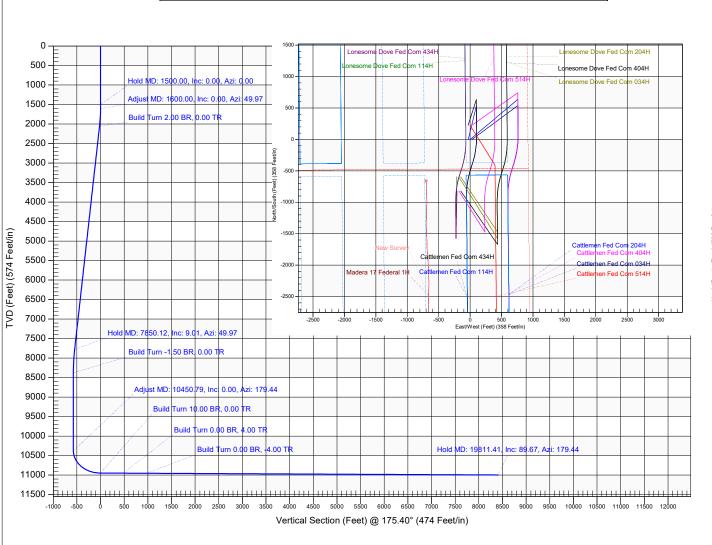
VS Origin

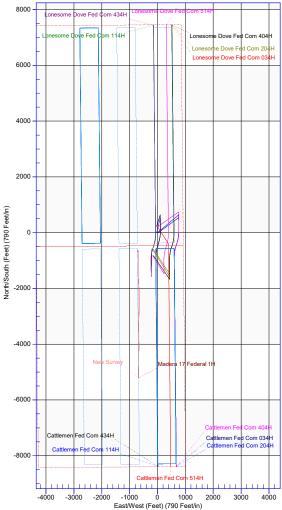
North Ref

0.00 Ft above Ground Level Minimum Curvature Well Centered 835510.80 US survey foot 381248.83 US survey foot -7426.67 Ft 4436.39 Ft 32° 2' 40.480" N

103° 23' 2.076" W NAD83 / New Mexico East (ftUS) Well

GRID Depth Datum Default **Grid Convergence** 0.504







Titus Oil & Gas, LLC County: LEA EL CAMP PROJECT Cattlemen Fed Com 204H Cattlemen Fed Com 204H

Geographic Survey Report 23 June 2020



Operator Field Facility Well Wellbore Titus Oil & Gas, LLC County: LEA EL CAMP PROJECT Cattlemen Fed Com 204H Cattlemen Fed Com 204H Local co-ord ref TVD Reference North Reference Survey Calc Method

Well Centered Default GRID Minimum Curvature

Field County: LEA

NAD83 / New Mexico East (ftUS) CRS

Apply Scale Factor System Datum NO Ground Level Scale Factor Depth Datum->MSL 0.99991 0.00 UsFt

Facility EL CAMP PROJECT

Map Northing Latitude 831074.42 US survey foot 103° 23' 52.868" W 388675.48 US survey foot Map Easting 32° 3' 54.350" N Longitude

Vertical Uncertainty Grid Convergence 0.00 UsFt Horizontal Uncertainty 0.00 UsFt 0.497

Well Cattlemen Fed Com 204H

0.504

Local North -7426.65 UsFt **Local East** 4436.38 UsFt Map Northing Latitude 381248.83 US survey foot 32° 2' 40.480" N Map Easting Longitude 835510.80 US survey foot 103° 23' 2.076" W 0.00 UsFt

Depth Datum GL Elevation Grid Convergence Default 0.00 UsFt **Datum Elevation**

Well bore Cattlemen Fed Com 204H IGRF12.COF 16/1/2020 Magnetic Model Date

Total Field (nT) 47587.534 Dip Angle (°) 59.893 Declination (°) VS Origin 6.571 **VS Azimuth** 175.40 VS Orgin NS 0.00 UsFt VS Origin EW 0.00 UsFt

Survey Program Cattlemen Fed Com 204H Survey Cattlemen Fed Com 204H Depth From (UsFt) Depth To (UsFt) Survey Tool 0.00 19812.37

	Survey Report															
MD UsFt	Inc •	Azi •	TVD UsFt	NS UsFt	EW UsFt	VS UsFt	DLS (*/100 UsFt)	BR (°/100 UsFt)	TR (°/100 UsFt)	TF •	CL UsFt	TVD SS UsFt	Map Northing US survey foot	Map Easting US survey foot	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3253.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-3153.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-3053.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-2953.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-2853.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-2753.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-2653.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-2553.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-2453.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-2353.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-2253.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-2153.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-2053.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-1953.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-1853.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
1500.00	0.00	49.97	1500.00	0.00	0.00	0.00	0.00	0.00	49.97	49.97	100.00	-1753.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
1600.00	0.00	49.97	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	-1653.99	381248.83	835510.80	32° 2' 40.480" N	103° 23' 2.076" W
1700.00	2.00	49.97	1699.98	1.12	1.34	-1.01	2.00	2.00	0.00	49.97	100.00	-1554.01	381249.17	835511.20	32° 2' 40.483" N	103° 23' 2.072" W
1800.00	4.00	49.97	1799.84	4.49	5.34	-4.05	2.00	2.00	0.00	0.00	100.00	-1454.16	381250.19	835512.43	32° 2' 40.493" N	103° 23' 2.057" W
1900.00	6.00	49.97	1899.45	10.09	12.02	-9.10	2.00	2.00	0.00	0.00	100.00	-1354.54	381251.90	835514.46	32° 2' 40.510" N	103° 23' 2.034" W
2000.00	8.00	49.97	1998.70	17.93	21.35	-16.16	2.00	2.00	0.00	0.00	100.00	-1255.29	381254.29	835517.30	32° 2' 40.534" N	103° 23' 2.000" W
2100.00	9.01	49.97	2097.60	27.44	32.67	-24.74	1.01	1.01	0.00	0.00	100.00	-1156.39	381257.19	835520.76	32° 2' 40.562" N	103° 23' 1.960" W
2200.00	9.01	49.97	2196.37	37.52	44.66	-33.81	0.00	0.00	0.00	0.00	100.00	-1057.63	381260.26	835524.41	32° 2' 40.592" N	103° 23' 1.917" W
2300.00	9.01	49.97	2295.13	47.59	56.66	-42.89	0.00	0.00	0.00	0.00	100.00	-958.86	381263.33	835528.07	32° 2' 40.622" N	103° 23' 1.874" W
2400.00	9.01	49.97	2393.90	57.66	68.65	-51.97	0.00	0.00	0.00	0.00	100.00	-860.09	381266.40	835531.72	32° 2' 40.652" N	103° 23' 1.832" W
2500.00	9.01	49.97	2492.66	67.74	80.64	-61.05	0.00	0.00	0.00	0.00	100.00	-761.33	381269.47	835535.38	32° 2' 40.682" N	103° 23' 1.789" W
2600.00	9.01	49.97	2591.43	77.81	92.63	-70.13	0.00	0.00	0.00	0.00	100.00	-662.56	381272.54	835539.03	32° 2' 40.712" N	103° 23' 1.746" W
2700.00	9.01	49.97	2690.20	87.88	104.62	-79.21	0.00	0.00	0.00	0.00	100.00	-563.80	381275.61	835542.69	32° 2' 40.742" N	103° 23' 1.703" W
2800.00	9.01	49.97	2788.96	97.95	116.61	-88.29	0.00	0.00	0.00	0.00	100.00	-465.03	381278.68	835546.34	32° 2' 40.772" N	103° 23' 1.661" W
2900.00	9.01	49.97	2887.73	108.03	128.60	-97.36	0.00	0.00	0.00	0.00	100.00	-366.26	381281.75	835550.00	32° 2' 40.802" N	103° 23' 1.618" W
3000.00	9.01	49.97	2986.50	118.10	140.60	-106.44	0.00	0.00	0.00	0.00	100.00	-267.50	381284.82	835553.65	32° 2' 40.833" N	103° 23' 1.575" W
3100.00	9.01	49.97	3085.26	128.17	152.59	-115.52	0.00	0.00	0.00	0.00	100.00	-168.73	381287.89	835557.31	32° 2' 40.863" N	103° 23' 1.532" W
3200.00	9.01	49.97	3184.03	138.24	164.58	-124.60	0.00	0.00	0.00	0.00	100.00	-69.97	381290.96	835560.96	32° 2' 40.893" N	103° 23' 1.489" W
3300.00	9.01	49.97	3282.79	148.32	176.57	-133.68	0.00	0.00	0.00	0.00	100.00	28.80	381294.03	835564.62	32° 2' 40.923" N	103° 23' 1.447" W
3400.00	9.01	49.97	3381.56	158.39	188.56	-142.76	0.00	0.00	0.00	0.00	100.00	127.57	381297.10	835568.27	32° 2' 40.953" N	103° 23' 1.404" W
3500.00	9.01	49.97	3480.33	168.46	200.55	-151.84	0.00	0.00	0.00	0.00	100.00	226.33	381300.17	835571.93	32° 2' 40.983" N	103° 23' 1.361" W
3600.00	9.01	49.97	3579.09	178.54	212.54	-160.92	0.00	0.00	0.00	0.00	100.00	325.10	381303.24	835575.58	32° 2' 41.013" N	103° 23' 1.318" W
3700.00	9.01	49.97	3677.86	188.61	224.54	-169.99	0.00	0.00	0.00	0.00	100.00	423.86	381306.31	835579.24	32° 2' 41.043" N	103° 23' 1.276" W



1	Survey Report																
Month										TR (°/100 UsFt)	TF •					Latitude	Longitude
Month	3800.00	9.01	49.97	3776.62	198.68	236.53	-179.07	0.00	0.00	0.00	0.00	100.00	522.63	381309.38	835582.89	32° 2' 41.073" N	103° 23' 1.233" W
Month																	103° 23' 1.190" W
1.00																	103° 23' 1.147" W
14																	103° 23' 1.104" W 103° 23' 1.062" W
March Marc																	
Section Sect																	103° 23' 1.019" W
March Marc																	103° 23' 0.976" W 103° 23' 0.933" W
1968 1969																	103° 23' 0.891" W
March Marc	4700.00	9.01	49.97	4665.52	289.34	344.45	-260.78	0.00	0.00	0.00	0.00	100.00	1411.53	381337.02	835615.79	32° 2' 41.344" N	103° 23' 0.848" W
March Marc	4000.00	0.04	40.07	4704.00	200 44	250.44	000.00	0.00	0.00	0.00	0.00	400.00	4540.00	204240.00	005040.44	20% 01 44 2748 N	103° 23' 0.805" W
Section Sect																	103° 23' 0.762" W
1906 1907	5000.00	9.01	49.97		319.55			0.00	0.00	0.00	0.00	100.00	1707.82	381346.23	835626.75	32° 2' 41.434" N	103° 23' 0.719" W
																	103° 23' 0.677" W
Mathematical Content of the conten	5200.00	9.01	49.97	5159.35	339.70	404.41	-306.17	0.00	0.00	0.00	0.00	100.00	1905.36	381352.37	835634.06	32" 2" 41.494" N	103° 23' 0.634" W
	5300.00	9.01	49.97	5258.12	349.77	416.40	-315.25	0.00	0.00	0.00	0.00	100.00	2004.12	381355.44	835637.72	32° 2' 41.524" N	103° 23' 0.591" W
March Marc																	103° 23' 0.548" W
																	103° 23' 0.506" W 103° 23' 0.463" W
March Marc																	103° 23' 0.420" W
March Marc																	
																	103° 23' 0.377" W 103° 23' 0.334" W
																	103° 23' 0.292" W
March Marc																	103° 23' 0.249" W
	6200.00	9.01	49.97	6147.01	440.43	524.32	-396.96	0.00	0.00	0.00	0.00	100.00	2893.02	381383.07	835670.61	32° 2' 41.795" N	103° 23' 0.206" W
	6300.00	9.01	49.97	6245.78	450.50	536.32	-406.04	0.00	0.00	0.00	0.00	100.00	2991.78	381386.14	835674.27	32° 2' 41.825" N	103° 23' 0.163" W
	6400.00	9.01	49.97	6344.54	460.57	548.31	-415.12	0.00	0.00	0.00	0.00	100.00	3090.55	381389.21	835677.92	32° 2' 41.855" N	103° 23' 0.121" W
1975 1975																	103° 23' 0.078" W
March Marc																	103° 23' 0.035" W 103° 22' 59.992" W
																	103° 22' 59.949" W
1702,000 90 48 97 703,95 531,68 82,25 478,67 000 000 0.00 100,00 378,91 38440,70 85757,35 32° 24° 24,95° N 103° 172,000 90 48 97 723,344 551,23 656,23 466,82 0.00 0.00 0.00 0.00 100,00 37744 384419,4 835710,82 32° 24° 24,95° N 103° 174,000 0.00																	103° 22' 59.907" W 103° 22' 59.864" W
1900 1900 1907 713467 19146 19424 1972 1900 190																	103° 22' 59.821" W
148000 0.0 4497 73220 58130 68622 -56580 0.00 0.00 0.00 0.00 100.00 407121 3844981 8871447 32°74.5187 103°7500.00 0.01 4497 752874 58145 68622 54468 0.00 0.00 0.00 0.00 100.00 427574 384625 8872178 32°74.21879 103°7700.00 0.01 4497 762850 59152 74020 53140 53140 0.00 0.00 0.00 0.00 100.00 427574 384625 8872178 32°74.21879 103°7700.00 0.01 44977 772277 60159 71619 -54222 0.00 0.00 0.00 100.00 447327 384523 887264 32°74.22879 103°7700.00 0.01 44977 772277 60159 71619 -54222 0.00 0.00 0.00 100.00 447277 38443219 8872640 32°74.22879 103°7700.00 0.00 0.00 0.00 0.00 0.00 0.00 47727 38443219 8872640 32°74.23879 103°7700.00 0.00 0.00 0.00 0.00 0.00 0.00 47727 38443219 8873260 32°74.23879 103°7700 0.00 0.00 0.00 0.00 0.00 47727 3844370 88737360 32°74.23879 103°7700 0.00 0.00 0.00 0.00 0.00 0.00 47727 3844370 88737360 32°74.23879 103°7700 0.00 0.00 0.00 0.00 0.00 0.00 47727 3844370 88737360 32°74.23879 103°7700 0.00 0.00 0.00 0.00 0.00 0.00 47727 3844370 88737360 32°74.23879 103°7700 0.								0.00									103° 22' 59.778" W
148000 0.0 4497 73220 58130 68622 -56580 0.00 0.00 0.00 0.00 100.00 407121 3844981 8871447 32°74.5187 103°7500.00 0.01 4497 752874 58145 68622 54468 0.00 0.00 0.00 0.00 100.00 427574 384625 8872178 32°74.21879 103°7700.00 0.01 4497 762850 59152 74020 53140 53140 0.00 0.00 0.00 0.00 100.00 427574 384625 8872178 32°74.21879 103°7700.00 0.01 44977 772277 60159 71619 -54222 0.00 0.00 0.00 100.00 447327 384523 887264 32°74.22879 103°7700.00 0.01 44977 772277 60159 71619 -54222 0.00 0.00 0.00 100.00 447277 38443219 8872640 32°74.22879 103°7700.00 0.00 0.00 0.00 0.00 0.00 0.00 47727 38443219 8872640 32°74.23879 103°7700.00 0.00 0.00 0.00 0.00 0.00 0.00 47727 38443219 8873260 32°74.23879 103°7700 0.00 0.00 0.00 0.00 0.00 47727 3844370 88737360 32°74.23879 103°7700 0.00 0.00 0.00 0.00 0.00 0.00 47727 3844370 88737360 32°74.23879 103°7700 0.00 0.00 0.00 0.00 0.00 0.00 47727 3844370 88737360 32°74.23879 103°7700 0.00 0.00 0.00 0.00 0.00 0.00 47727 3844370 88737360 32°74.23879 103°7700 0.	7000 00	0.04	40.07	7000 44	FF4 00	050 00	400.00	0.00	0.00	0.00	0.00	400.00	2070 44	204440.04	005740.00	20% 01 40 405% N	4000 001 50 7005 W
																	103° 22' 59.736" W 103° 22' 59.693" W
1770.00 201 49.97 7828.50 591.52 704.20 -533.14 0.00 0.00 0.00 0.00 497.451 38442.19 85872.44 32.24.245*N 103.7780.00 0.00 0.00 0.00 0.00 0.00 0.00 477.45 38442.19 85872.00 32.24.225*N 103.7780.00 0.00 0.00 0.00 0.00 0.00 477.47 38443.19 85872.00 32.24.225*N 103.7780.00 0.00 0.00 0.00 0.00 477.14 38443.14 85872.00 32.24.235*N 103.7780.00 0.00 0.00 0.00 0.00 477.14 38443.14 85873.00 32.24.235*N 103.7780.00 0.00 0.00 0.00 477.12 38443.14 85873.00 32.24.235*N 103.7780.00 0.00 0.00 477.14 38444.29 85873.00 32.24.235*N 103.7780.00 0.00 0.00 477.14 38444.29 85873.00 32.24.235*N 103.7780.00 0.00 0.00 477.12 38443.14 38444.29 85873.00 32.24.235*N 103.7780.00 0.00 477.14 47																	103° 22' 59.650" W
180.00																	103° 22' 59.607" W 103° 22' 59.565" W
1900.00 2.8	7700.00	3.01	40.01	7020.50	381.32	704.20	-303.14	0.00	0.00	0.00	0.00	100.00	4074.01	301428.12	000720.44	32 2 42.243 IV	103 22 33.303 W
800.00																	103° 22' 59.522" W
800.00 5.26 4897 8024.72 623.99 745.71 -564.57 1.50 -1.50 0.00 180.00 100.00 4770.73 381439.75 885788.09 32°2 42.249°N 103° 820.00 3.76 4897 8124.41 681.48 751.74 -569.13 1.50 -1.50 0.00 180.00 100.00 4870.41 38144.19 835789.3 32°2 42.248°N 103° 824.23 685.53 757.78 -573.71 1.50 -1.50 0.00 180.00 100.00 4870.41 38144.29 835781.15 32°2 42.35°N 103° 8500.00 0.07 1794.48 824.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 0.00 100.00 5070.23 38144.27 835741.92 32°2 42.38°N 103° 8800.00 0.00 1794.48 822.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 0.00 5070.23 38144.27 835741.92 32°2 42.28°N 103° 8800.00 0.00 1794.48 824.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 0.00 5070.23 38144.27 835741.92 32°2 42.28°N 103° 8800.00 0.00 1794.48 822.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 0.00 5070.23 38144.27 835741.92 32°2 42.28°N 103° 8800.00 0.00 1794.48 822.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 0.00 5070.23 38144.27 835741.92 32°2 42.28°N 103° 8800.00 0.00 1794.48 822.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 0.00 5070.23 38144.27 835741.92 32°2 42.28°N 103° 8800.00 0.00 1794.48 822.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 100.00 5570.23 38144.27 835741.92 32°2 42.28°N 103° 8800.00 0.00 1794.49 822.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 100.00 5570.23 38144.27 835741.92 32°2 42.28°N 103° 8000.00 0.00 1794.49 822.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 100.00 5670.23 38144.27 835741.92 32°2 42.28°N 103° 8000.00 0.00 1794.49 822.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 100.00 5670.23 38144.27 835741.92 32°2 42.28°N 103° 8000.00 0.00 1794.49 822.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 100.00 5670.23 38144.27 835741.92 32°2 42.28°N 103° 8000.00 0.00 1794.49 822.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 100.00 5670.23 38144.27 835741.92 32°2 42.28°N 103° 8000.00 0.00 1794.49 822.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 100.00 5670.23 38144.27 835741.92 32°2 42.28°N 103° 8000.00 0.00 1794.49 822.23 685.69 758.29 -574.69 0.00 0.00 0.00 0.00 0.00 100.00 5670.23 38144.27 835741.92 32°2 4																	103° 22' 59.481" W
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8400.0 0 0.76		3.76	49.97									100.00		381441.29			103° 22' 59.395" W
8400.0 0 0.76	0000 00	0.00	40.07	0004.07	004.00	755.70	570.40	4.50	4.50	0.00	400.00	400.00	4070.07	204442.22	005744.45	20% 01 40 2757 N	103° 22' 59.381" W
8500.00 0.00 179.44 8424.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 5770.23 38144.297 835741.92 32° 24.2381*N 103° 8700.00 0.00 179.44 8624.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 5770.23 38144.297 835741.92 32° 24.2381*N 103° 8800.00 0.00 179.44 8724.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 5770.23 38144.297 835741.92 32° 24.2381*N 103° 8800.00 0.00 179.44 8224.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 5770.23 38144.297 835741.92 32° 24.2381*N 103° 8900.00 0.00 179.44 8224.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 5770.23 38144.297 835741.92 32° 24.2381*N 103° 8900.00 0.00 179.44 9024.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 5770.23 38144.297 835741.92 32° 24.2381*N 103° 8900.00 0.00 179.44 9124.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 5870.23 38144.297 835741.92 32° 24.2381*N 103° 8900.00 0.00 179.44 9124.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 5870.23 38144.297 835741.92 32° 24.2381*N 103° 8900.00 0.00 179.44 9224.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 5870.23 38144.297 835741.92 32° 24.2381*N 103° 8900.00 0.00 179.44 9224.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 6702.23 38144.297 835741.92 32° 24.2381*N 103° 8900.00 0.00 179.44 9224.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 6702.23 38144.297 835741.92 32° 24.2381*N 103° 8900.00 0.00 179.44 9224.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 6702.23 38144.297 835741.92 32° 24.2381*N 103° 8900.00 0.00 179.44 9224.23 638.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 6702.23 38144.297 835741.92																	103° 22' 59.373" W
800.00 0.00 179.44 8624.23 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 100.00 5370.23 381442.97 835741.92 32° 2' 42.381° N 103° 8800.00 0.00 179.44 8624.23 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 100.00 5570.23 381442.97 835741.92 32° 2' 42.381° N 103° 9000.00 0.00 179.44 8624.23 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 100.00 5570.23 381442.97 835741.92 32° 2' 42.381° N 103° 9000.00 0.00 179.44 802.423 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 5770.23 381442.97 835741.92 32° 2' 42.381° N 103° 9000.00 0.00 179.44 902.423 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 5770.23 381442.97 835741.92 32° 2' 42.381° N 103° 900.00 0.00 179.44 912.423 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 5770.23 381442.97 835741.92 32° 2' 42.381° N 103° 900.00 0.00 179.44 912.423 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 5770.23 381442.97 835741.92 32° 2' 42.381° N 103° 900.00 0.00 179.44 912.423 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 100.00 5870.23 381442.97 835741.92 32° 2' 42.381° N 103° 900.00 0.00 179.44 92.423 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 100.00 6870.23 381442.97 835741.92 32° 2' 42.381° N 103° 900.00 0.00 179.44 92.423 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 100.00 6870.23 381442.97 835741.92 32° 2' 42.381° N 103° 900.00 0.00 179.44 92.423 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 0.00 100.00 6870.23 381442.97 835741.92 32° 2' 42.381° N 103° 900.00 0.00 179.44 92.423 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 100.00 6870.23 381442.97 835741.92 32° 2' 42.381° N 103° 900.00 0.00 179.44 92.423 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 100.00 6870.23 381442.97 835741.92 32° 2' 42.381° N 103° 900.00 0.00 179.44 92.423 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 100.00 6870.23 381442.97 835741.92 32° 2' 42.381° N 103° 1000.00 0.00 179.44 10024.23 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 0.00 100.00 6870.23 381442.97 835741.92 32° 2' 42.381° N 103° 1000.00 0.00 179.44 10024.23 636.96 758.29 .574.09 0.00 0.00 0.00 0.00 0.00 0.00 100.00 6870.23 381442.97 835741.9	8500.00	0.00	179.44	8424.23	636.96	758.29	-574.09	0.76	-0.76	129.47	180.00	100.00	5170.23	381442.97	835741.92	32° 2' 42.381" N	103° 22' 59.372" W
880.00 0.00 179.44 8724.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 100.00 5570.23 38144.297 835741.92 32" 2"42.381" N 103" 900.00 0.00 179.44 8824.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 100.00 5570.23 38144.297 835741.92 32" 2"42.381" N 103" 910.00 0.00 179.44 9124.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 100.00 5770.23 38144.297 835741.92 32" 2"42.381" N 103" 910.00 179.44 9124.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 100.00 5770.23 38144.297 835741.92 32" 2"42.381" N 103" 910.00 0.00 179.44 9124.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 100.00 5770.23 38144.297 835741.92 32" 2"42.381" N 103" 910.00 0.00 179.44 924.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 100.00 5770.23 38144.297 835741.92 32" 2"42.381" N 103" 910.00 0.00 0.00 179.44 9324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 100.00 5770.23 38144.297 835741.92 32" 2"42.381" N 103" 910.00 0.00 179.44 9324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 179.44 9324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 179.44 9324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 179.44 9324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 179.44 9324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 179.44 9324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 179.44 9324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 179.44 9324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 179.44 9324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 0.00 179.44 9324.29 63574.92 32" 2"42.381" N 103" 1000.00 0.00 179.44 9324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 179.44 9324.29 63574.92 32" 2"42.381" N 103" 1000.00 0.00 179.44 9324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 100.00 6570.23 38144.297 835741.92 32" 2"42.381" N 103" 1000.00 0.00 179.44 10024.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 100.00 6570.23 38144.297 835741.92 32" 2"42.381" N 103" 1000.00 0.00 179.44 10024.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 0.00 100.00 6670.23 38144.297 835741.92 32" 2"42.381" N 103" 1000.00 0.00																	103° 22' 59.372" W
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10200.00 0.00 179.44 10124.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 100.00 6870.23 381442.97 835741.92 32°2 '42.381° N 103° 10300.00 0.00 179.44 10224.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 100.00 6970.23 381442.97 835741.92 32°2 '42.381° N 103° 10400.00 0.00 179.44 10324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 100.00 7070.23 381442.97 835741.92 32°2 '42.381° N 103° 10500.00 4.92 179.44 10404.10 632.66 758.33 -569.81 4.92 4.92 0.00 179.44 100.00 7170.11 381441.66 835741.94 32°2 '42.386° N 103° 10600.00 14.92 179.44 10502.48 615.45 758.50 -552.64 10.00 10.00 0.00 0.00 100.00 7268.49 381436.42 835741.99 32°2 '42.316° N 103° 10700.00 24.92 179.44 10616.38 581.42 758.83 -518.69 10.00 10.00 0.00 0.00 100.00 748.94 38140.66 835742.09 32°2 '42.214° N 103° 10800.00 34.92 179.44 10702.94 531.60 759.32 -468.99 10.00 10.00 0.00 0.00 100.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 34.92 179.44 10702.94 531.60 759.32 -468.99 10.00 10.00 0.00 0.00 100.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 34.92 179.44 10702.94 531.60 759.32 -468.99 10.00 10.00 0.00 0.00 100.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 34.92 179.44 10702.94 531.60 759.32 -468.99 10.00 10.00 0.00 0.00 0.00 100.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 109.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 109.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 109.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 109.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 109.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 109.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 109.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 109.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 109.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 109.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 109.00 748.94 38141.86 835742.24 32°2 '42.608° N 103° 10800.00 109.00 748.94 38141.86 835742.24 32°2 '42.608° N																	103° 22' 59.372" W
10300.00																	103° 22' 59.372" W 103° 22' 59.372" W
10400.00 0.00 179.44 10324.23 636.96 758.29 -574.09 0.00 0.00 0.00 0.00 100.00 7070.23 38144.97 835741.92 32°2'42.381°N 103° 10500.00 4.92 179.44 10424.10 632.66 758.33 -569.81 4.92 4.92 0.00 179.44 100.00 7170.11 381441.66 835741.94 32°2'42.368°N 103° 10600.00 14.92 179.44 10522.48 615.45 758.50 -552.64 10.00 10.00 0.00 0.00 100.00 7268.49 381436.42 835741.99 32°2'42.316°N 103° 10700.00 24.92 179.44 10616.38 581.42 758.83 -518.69 10.00 10.00 0.00 0.00 100.00 7362.38 381426.04 835742.09 32°2'42.214°N 103° 10800.00 34.92 179.44 10702.94 531.60 759.32 -468.99 10.00 10.00 0.00 0.00 100.00 748.94 381410.86 835742.43 32°2'42.063°N 103° 10800.00 34.92 179.44 10702.94 531.60 759.32 -468.99 10.00 10.00 0.00 0.00 100.00 748.94 381410.86 835742.43 32°2'42.063°N 103° 10800.00 34.92 179.44 10702.94 531.60 759.32 -468.99 10.00 10.00 0.00 0.00 100.00 748.94 381410.86 835742.43 32°2'42.063°N 103° 10800.00 10800 748.94 381410.86 835742.43 32°2'42.063°N 103° 108000.00 108000 748.94 381410.86 835742.43 32°2'42.063°N 103° 108000.00 108000 748.94 381410.86 835742.43 32°2'42.063°N 1080000.00 108000 748.94 381410.86 835742.43 32°2'42.063°N 10800000 748.94 381410.86 835742.44 32°2'42.063°N 10800000000000000000000000000000000000																	
10500.00 4.92 179.44 10424.10 632.66 758.33 -569.81 4.92 4.92 0.00 179.44 100.00 7170.11 381441.66 835741.94 32°2'42.368°N 103° 10600.00 14.92 179.44 10522.48 615.45 758.50 -552.64 10.00 10.00 0.00 0.00 100.00 7268.49 381436.42 835741.99 32°2'42.316°N 103° 10700.00 24.92 179.44 10616.38 581.42 758.83 -518.69 10.00 10.00 0.00 0.00 100.00 7362.38 381426.04 835742.09 32°2'42.214°N 103° 10800.00 34.92 179.44 10702.94 531.60 759.32 -468.99 10.00 10.00 0.00 0.00 100.00 7448.94 381410.86 835742.24 32°2'42.063°N 103°																	103° 22' 59.372" W
10600.00 14.92 179.44 10522.48 615.45 758.50 -552.64 10.00 10.00 0.00 0.00 100.00 7268.49 381436.42 835741.99 32°2'42.316°N 103° 10700.00 24.92 179.44 10616.38 581.42 758.83 -518.69 10.00 10.00 0.00 0.00 100.00 7362.38 381426.04 835742.09 32°2'42.214°N 103° 10800.00 34.92 179.44 10702.94 531.60 759.32 -468.99 10.00 10.00 0.00 0.00 100.00 7448.94 381410.86 835742.24 32°2'42.063°N 103°																	103° 22' 59.372" W 103° 22' 59.372" W
10800.00 34.92 179.44 10702.94 531.60 759.32 -468.99 10.00 10.00 0.00 0.00 100.00 7448.94 381410.86 835742.24 32° 2' 42.063° N 103°																	103° 22' 59.371" W
	10700.00	24.92	179.44	10616.38	581.42	758.83	-518.69	10.00	10.00	0.00	0.00	100.00	7362.38	381426.04	835742.09	32° 2' 42.214" N	103° 22' 59.371" W
	10800 00	34 92	179 44	10702 94	531 60	759 32	-468 QQ	10.00	10.00	0.00	0.00	100.00	7448 94	381410.86	835742 24	32° 2' 42 063" N	103° 22' 59.371" W
2	10900.00	44.92	179.44	10702.54	467.51	759.94	-405.06	10.00	10.00	0.00	0.00	100.00	7525.54	381391.32	835742.43	32° 2' 41.870" N	103° 22' 59.371" W
																	103° 22' 59.371" W
																	103° 22' 59.370" W 103° 22' 59.370" W
1000 1000 1000 1000 1000 1000 1000 100	11200.00	17.82	113.44	10020.10	210.07	102.40	- 140.04	10.00	10.00	0.00	0.00	100.00	1014.11	30 13 13.10	3337 43.18	02 2 71.090 N	103 22 38.310 W
																	103° 22' 59.370" W
																	103° 22' 59.376" W
11500.00 89.67 185.54 10950.94 -87.09 756.38 147.47 4.00 -0.00 4.00 90.05 100.00 7696.94 381222.28 835741.34 32°2′40.197°N 103°	11300.00	09.67	100.54	10950.94	-07.109	130.38	147.47	4.00	-0.00	4.00	9U.U5	100.00	1090.94	301222.28	030141.34	32 2 4U.191"N	103° 22' 59.401" W



		Survey Report															
Month			Azi •							TR (°/100 UsFt)	TF •					Latitude	Longitude
Mathematical	11600.00	89.66	189.54	10951.52	-186.21	743.26	245.22	4.00	-0.00	4.00	90.02	100.00	7697.53	381192.07		32° 2' 39.899" N	103° 22' 59.450" W
Mathematical																	I
1.00 1.00																	
	12000.00	89.67	193.34	10953.85	-572.30	640.05	621.79	4.00	-0.00	-4.00	-90.05	100.00	7699.85	381074.39	835705.88	32° 2' 38.737" N	103° 22' 59.828" W
Perf																	
Perf																	
1909 1909	12500.00	89.67	179.44	10956.75	-1069.28	602.10	1114.13	0.00	0.00	0.00	0.00	100.00	7702.76	380922.91	835694.32	32° 2' 37.239" N	103° 22' 59.978" W
March Marc	12600.00	89.67	179.44	10957.33	-1169.28	603.08	1213.88	0.00	0.00	0.00	0.00	100.00	7703.33	380892.43	835694.62	32° 2' 36.938" N	103° 22' 59.977" W
1.00																	
1.00. 1.00																	I
1.000																	
1985 1985	13100.00	89.67	179.44	10960.21	-1669.25	607.96	1712.63	0.00	0.00	0.00	0.00	100.00	7706.21	380740.04	835696.10	32° 2' 35.430" N	103° 22' 59.976" W
March Marc	13200.00	89.67	179.44	10960.78	-1769.24	608.94	1812.38	0.00	0.00	0.00	0.00	100.00	7706.79	380709.56	835696.40	32° 2' 35.128" N	103° 22' 59.975" W
1.00 1.00																	
1.000.00 1.000.00																	
1.000.00 1.000.00	40000.00	00.07	470.44	40000 00	0400 04	C40.05	2044.20	0.00	0.00	0.00	0.00	400.00	7700.00	200507.05	005007.50	20% 01 22 0248 N	4000 001 50 0748 144
1																	
																	I
1900 1907 1904 1906 1914 1915 1915 1916																	
14000 1675 1744 1661	14000.00	89.67	179.44	10965.39	-2569.19	616.76	2610.38	0.00	0.00	0.00	0.00	100.00	7711.40	380465.74	835698.79	32° 2' 32.715" N	103° 22' 59.973" W
1.00.00 1.00																	I
1440 1450																	
140000 1867 1744 196045 17694 176945 17694 176945 17694 176945 17694 176945 17694 176945 1																	
1.00 1.00															835700.28		
140000 1807 1744 190750 30901 180700 30901 180700 30901 180700 30901 180700 30901 180700 30901 180700 30901	14600.00	89.67	179.44	10968.85	-3169.15	622.62	3208.87	0.00	0.00	0.00	0.00	100.00	7714.85	380282.87	835700.57	32° 2' 30.905" N	103° 22' 59.971" W
149000 18907 17144 19917 19900 18907 17144 19917 19900 18907 17144 19917 19900 18907 189	14700.00																I
15000 1500 1574 1574 1577 15691 15000 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 150																	
1525000 88.67 774.4 1077.25 3786.1 28.40 38.77 28.00 20.0 2																	
1525000 88.67 774.4 1077.25 3786.1 28.40 38.77 28.00 20.0 2																	
185000 1867 1714 18724 18891																	
1500.00 167 179.44 10974.01 4490.00 031.42 4496.27 0.00 0.00 0.00 0.00 100.00 1773.04 37997.80 858773.55 327 22 8897 M 1037 22 98987 M 103	15300.00	89.67	179.44	10972.88	-3869.10	629.47	3907.12	0.00	0.00	0.00	0.00	100.00	7718.88	380069.52	835702.66	32° 2' 28.794" N	103° 22' 59.968" W
1950.00 88.67 179.44 10974.81 4490.08 032.40 420.37 0.00 0.00 0.00 0.00 100.00 772.91 379078.09 837703.55 32"27.888"N 103"22"9.88"N 103"22"9.8																	
155000 15600 1764 1975 16500 15600																	
195000 1967 17944 1907576 195807 1948																	
1950000 1967 17944 1977-63 1448007 1953 145905 200																	
1600.00 88.87 179.44 10977.69 -489.05 637.29 400.67 0.00 0.00 0.00 100.00 7724.07 37976.22 83976.34 32° 22.8397 N 103° 22° 9.8957 N 150° 2			179.44					0.00									
14500.00 86.77 179.44 10970.00 -176.05 480.26 440.44 70.00 0.00 0.00 0.00 0.00 0.00 0.00 772.44 737978.22 83570.54 37.72 26.957 10.95 26.959 10.95	16000.00	89.67	179.44	10976.91	-4569.06	636.31	4605.37	0.00	0.00	0.00	0.00	100.00	7722.92	379856.17	835704.74	32° 2' 26.683" N	103° 22' 59.966" W
150000 86.77 179.44 10978.64 -889.04 589.04 589.04 589.04 589.05	16100.00	89.67	179.44	10977.49	-4669.05	637.28	4705.12	0.00	0.00	0.00	0.00	100.00	7723.49	379825.70	835705.04	32° 2' 26.381" N	103° 22' 59.965" W
14600.00 88.677 179.44 10897.27 -4688.03 444.12 5004.37 0.00 0.00 0.00 0.00 100.00 7725.22 37794.268 835706.53 32° 22.5175° N 103° 225 96.94° W 10800.00 89.67 179.44 10880.37 -5686.00 641.19 5104.12 0.00 0.00 0.00 0.00 100.00 7725.25 378973.31 835706.23 32° 22.6175° N 103° 225 96.94° W 10800.00 89.67 179.44 10880.34 -5686.00 641.13 5403.37 0.00 0.00 0.00 0.00 0.00 0.00 100.00 7725.25 378973.31 835706.83 32° 24.6175° N 103° 225 96.95° W 17900.00 89.67 179.44 10880.24 -5686.95 641.05 5403.37 0.00 0.00 0.00 0.00 0.00 0.00 100.00 7725.25 378913.31 835706.83 32° 24.6175° N 103° 225 96.95° W 17900.00 89.67 179.44 10981.52 -5686.95 641.05 5503.62 0.00 0.00 0.00 0.00 0.00 100.00 7727.32 378913.35 835707.42 32° 22.266°N 103° 225 96.95° W 17900.00 89.67 179.44 10981.32 -5686.95 644.08 5602.87 0.00 0.00 0.00 0.00 0.00 0.00 100.00 7772.86 37860.39 835706.23 32° 22.366°N 103° 225 96.95° W 17900.00 89.67 179.44 10981.32 -5686.95 644.08 5602.87 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 100.00 7772.86 37860.39 835706.23 32° 22.366°N 103° 225 96.95° W 17900.00 89.67 179.44 10981.32 -5686.95 646.03 5802.37 0.00 0	16200.00	89.67	179.44	10978.06	-4769.05		4804.87	0.00		0.00	0.00	100.00		379795.22			I
1500.00 88.67 178.44 1080.37 -508.00 641.19 5104.12 0.00 0.00 0.00 0.00 100.00 7725.80 378703.78 835706.23 32*22.5175*N 103*22*59.86*1 W 1600.00 89.67 178.44 1080.03 1.00 1.00 1.00 1.00 1.00 1.00 1.00	16300.00	89.67 89.67	179.44	10978.64	-4869.04 -4969.03		4904.62 5004.37	0.00		0.00	0.00	100.00		379764.74 379734.26			I
16700.00 86.67 779.44 10980.54 -5269.01 643.15 5303.62 0.00 0.00 0.00 0.00 0.00 0.00 7725.65 37964.238 835708.83 32° 22.4572°N 103° 22° 59.653°N 16800.00 86.67 179.44 10982.69 -5469.00 645.10 5503.12 0.00 0.00 0.00 0.00 100.00 7728.10 37958.167 855707.42 32° 22.2566°N 103° 22° 59.653°N 17000.00 86.67 179.44 10982.67 -5568.99 646.08 5602.67 0.00 0.00 0.00 0.00 0.00 100.00 7728.81 37958.19 855707.42 32° 22.3566°N 103° 22° 59.652°N 103°																	
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18400.00 89.67 179.44 10990.73 -6968.90 659.76 6999.37 0.00 0.00 0.00 0.00 100.00 7736.74 379124.70 835711.89 32°2 19.444°N 103°22°59.95°T W 18500.00 89.67 179.44 10991.31 -7068.99 660.74 7099.12 0.00 0.00 0.00 0.00 100.00 7737.31 379094.22 835712.19 32°2 19.444°N 103°22°59.95°T W 18600.00 89.67 179.44 10991.88 -7168.89 661.72 7198.87 0.00 0.00 0.00 0.00 100.00 7737.89 379083.74 835712.49 32°2 18.841°N 103°22°59.95°T W 18700.00 89.67 179.44 10992.46 -7268.88 662.70 7298.62 0.00 0.00 0.00 0.00 100.00 7738.47 37903.27 835713.08 32°2 18.540°N 103°22°59.95°T W 18800.00 89.67 179.44 10993.04 -7368.88 663.67 7398.37 0.00 0.00 0.00 0.00 100.00 7739.04 379002.79 835713.08 32°2 18.238°N 103°22°59.95°T W 18900.00 89.67 179.44 10993.01 -7468.87 664.65 7498.12 0.00 0.00 0.00 0.00 100.00 7739.02 378972.31 835713.08 32°2 17.935°N 103°22°59.95°T W 19000.00 89.67 179.44 10994.79 -7568.87 665.63 7597.87 0.00 0.00 0.00 0.00 100.00 7740.77 37891.35 835713.68 32°2 17.333°N 103°22°59.95°T W 19100.00 89.67 179.44 10994.76 -7668.86 666.60 7697.62 0.00 0.00 0.00 0.00 100.00 7740.77 378911.35 835713.98 32°2 17.333°N 103°22°59.95°T W 19200.00 89.67 179.44 10995.34 -7768.85 667.58 7797.37 0.00 0.00 0.00 0.00 7740.77 378911.35 835713.98 32°2 17.333°N 103°22°59.95°T W																	
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18700.00 89.67 179.44 10992.46 -7268.88 662.70 7298.62 0.00 0.00 0.00 0.00 100.00 7738.47 37903.27 835712.79 32°2 18.540°N 103°22′59.956°W 18900.00 89.67 179.44 10993.04 -7368.88 663.67 7398.37 0.00 0.00 0.00 0.00 100.00 7739.04 379002.79 835713.08 32°2 18.238°N 103°22′59.956°W 19900.00 89.67 179.44 10993.04 -7368.87 664.65 7498.12 0.00 0.00 0.00 0.00 100.00 7739.62 373972.31 835713.68 32°2 17.935°N 103°22′59.956°W 19000.00 89.67 179.44 10994.19 -7568.87 665.63 7597.87 0.00 0.00 0.00 0.00 100.00 7740.19 378941.83 835713.68 32°2 17.635°N 103°22′59.955°W 19100.00 89.67 179.44 10994.79 -7568.86 666.60 7697.62 0.00 0.00 0.00 0.00 100.00 7740.77 378911.35 835713.98 32°2 17.333°N 103°22′59.955°W 19200.00 89.67 179.44 10995.34 -7768.85 667.58 7797.37 0.00 0.00 0.00 0.00 7740.77 378911.35 835714.28 32°2′17.032°N 103°22′59.955°W	18500.00	89.67	179.44	10991.31	-7068.90	660.74	7099.12	0.00	0.00	0.00	0.00	100.00	7737.31	379094.22	835712.19	32° 2' 19.143" N	103° 22' 59.957" W
18800.00 89.67 179.44 10993.04 -7368.88 663.67 7398.37 0.00 0.00 0.00 0.00 100.00 7739.04 379002.79 835713.08 32°2 18.238°N 103°22′59.956°W 18900.00 89.67 179.44 10993.61 -7468.87 664.65 7498.12 0.00 0.00 0.00 0.00 100.00 7739.62 378972.31 835713.08 32°2 17.936°N 103°22′59.956°W 19000.00 89.67 179.44 10994.19 -7568.87 665.63 7597.87 0.00 0.00 0.00 0.00 100.00 7740.19 378941.83 835713.68 32°2 17.635°N 103°22′59.955°W 19100.00 89.67 179.44 10994.76 -7668.86 666.00 7697.62 0.00 0.00 0.00 0.00 100.00 7740.77 378911.35 835713.98 32°2 17.333°N 103°22′59.955°W 19200.00 89.67 179.44 10995.34 -7768.85 667.58 7797.37 0.00 0.00 0.00 0.00 100.00 7741.35 37880.87 835714.28 32°2 17.032°N 103°22′59.955°W																	
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19200.00 89.67 179.44 10995.34 -7768.85 667.58 7797.37 0.00 0.00 0.00 0.00 100.00 7741.35 378880.87 835714.28 32°2′17.032°N 103°22′59.955°W																	
	19100.00	89.67	179.44	10994.76	-7668.86	666.60	7697.62	0.00	0.00	0.00	0.00	100.00	7740.77	378911.35	835713.98	32° 2' 17.333" N	103° 22' 59.955" W
19300,000 09.01 179.44 10995,952 -7698.85 068.56 7697.12 0.00 0.00 100.00 7741.92 378850.40 835714.57 32*2*16.730*N 103*22*59.954*W																	
	19300.00	89.67	179.44	10995.92	-7868.85	b68.56	/897.12	0.00	U.U0	0.00	U.U0	100.00	//41.92	3/8850.40	გვე/14.57	32" 2" 16.730" N	103" 22" 59.954" W



				Survey Report												
MD UsFt	Inc •	Azi •	TVD UsFt	NS UsFt	EW UsFt	VS UsFt	DLS (°/100 UsFt)	BR (°/100 UsFt)	TR (°/100 UsFt)	TF •	CL UsFt	TVD SS UsFt	Map Northing US survey foot	Map Easting US survey foot	Latitude	Longitude
19400.00 19500.00 19600.00 19700.00 19800.00	89.67 89.67 89.67 89.67 89.67	179.44 179.44 179.44 179.44 179.44	10996.49 10997.07 10997.64 10998.22 10998.80	-7968.84 -8068.83 -8168.83 -8268.82 -8368.81	669.54 670.51 671.49 672.47 673.45	7996.87 8096.62 8196.37 8296.12 8395.87	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	100.00 100.00 100.00 100.00 100.00	7742.50 7743.07 7743.65 7744.23 7744.80	378819.92 378789.44 378758.96 378728.48 378698.01	835714.87 835715.17 835715.47 835715.77 835716.06	32° 2' 16.428" N 32° 2' 16.127" N 32° 2' 15.825" N 32° 2' 15.523" N 32° 2' 15.522" N	103° 22' 59.954" W 103° 22' 59.954" W 103° 22' 59.953" W 103° 22' 59.953" W 103° 22' 59.953" W
19812.37	89.67	179.44	10998.87	-8381.18	673.57	8408.21	0.00	0.00	0.00	0.00	12.37	7744.87	378694.24	835716.10	32° 2' 15.185" N	103° 22' 59.952" W

1. Geologic Formations

TVD of target	10,996' EOL	Pilot hole depth	NA
MD at TD:	19,812'	Deepest expected fresh water:	250'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1035	Water	
Top of Salt	1551	Salt	
Base of Salt	5009	Salt	
Lamar	5367	Salt Water	
Bell Canyon	5391	Oil/Gas	
Cherry Canyon	6426	Oil/Gas	
Brushy Canyon	7799	Oil/Gas	
Bone Spring Lime	9278	Oil/Gas	
Upper Avalon Shale	9337	Oil/Gas	
1st Bone Spring Sand	10476	Oil/Gas	
2nd Bone Spring Sand	11015	Target Oil/Gas	
3rd Bone Spring Sand	12155	Not Penetrated	
Wolfcamp	12534	Not Penetrated	
Х	X	Not Penetrated	

2. Casing Program

Hole Size	Casin	g Interval	Csg. Size	Weight	Grade	Conn	SF	SF Burst	SF
noie Size	From	То	Csg. Size	(lbs)	Grade	Collii.	Collapse	or burst	Tension
17.5"	0	1060	13.375"	54.5	J55	STC	2.33	1.18	8.90
12.25"	0	5395	9.625"	40	J55	LTC	1.13	0.92	2.41
8.75"	0	19,812	5.5"	17	P110	LTC	1.39	2.49	2.38
			В	LM Minimu	m Safety	/ Factor	1.125	1	1.6 Dry 1.8 Wet

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

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

3. Cementing Program

Casing	# Sks	Wt. lb/	Yld ft3/	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	440	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Suii.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter.	1050	12.7	2.0	9.6	16	Lead: 35:65:6 C Blend
iiilei.	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
5.5 P100	2370	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	4,895'	25% OH in Lateral (KOP to EOL) – 40% OH in Vertical

4. Pressure Control Equipment

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

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

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

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

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

5. Mud Program

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

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
What will be used to monitor the loss of gain of haid:	1 V 1/1 door, vioual Monitoring

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specify what type and where?	
BH Pressure at deepest TVD	5375 psi at 10996' 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.

	321/1			
N	H2S is present			
Y	H2S Plan attached			

8. Other Facets of Operation

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

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

District I

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

District II

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

District III

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

District IV

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

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

OCD - HOBBS 12/01/2020 RECEIVED

Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

Form C-102

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Numbe	-	2 Pool Code	3 Pool Name	
30-025-4812		96672	WC-025 G-08 S263412K; Bone Spring	
4 Property Code		5 Property Name		6 Well Number
329879		CATTLEMEN FED COM		204H
7 OGRID No. 373986		8 Operator Name TITUS OIL & GAS PRODUCTION LLC		9 Elevation 3215'

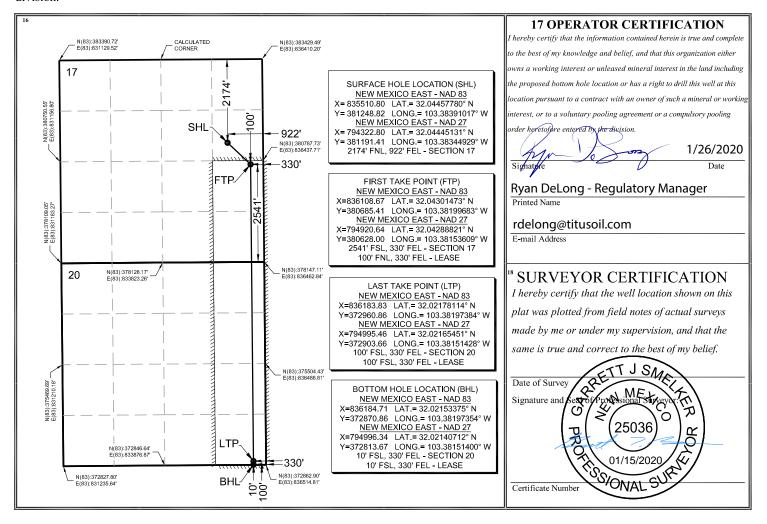
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	17	26-S	35-E		2174'	NORTH	922'	EAST	LEA

11 Bottom Hole Location If Different From Surface

Bowom Hote Economic Homeson Homeson										
UL or lot no.	Section	Township	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
P	20	26-S	35-E		10'	SOUTH	330'	EAST	LEA	
12 Dedicated Acres 13 Joint or Infill 14 Consolidati		n Code 15 O	order No.							
240	Υ .	7								

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.



Inten	t	As Dril	led											
API #	30-025-	48123												
Operator Name:						Property Name:							Well Number	
Kick (Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	1/S	Feet		From	n E/W	County	
Latit	ude				Longitu	ude							NAD	
First [*]	Take Poir	t (FTP)	Range	Lot	Feet		From N	I/S	Feet		From	ı E/W	County	
Latit	ude				Longitu	ude							NAD	
Last 1	Take Poin	t (LTP)												
UL	Section	Township	Range	Lot	Feet	Fro	m N/S	Feet		From E	/W	Count	ту	
Latit	<u>l</u> ude				Longitu	Longitude NAD								
Is this	s well the	defining v	vell for	the Hori	zontal S	pacin	g Unit?							
ls this	s well an	infill well?												
	ll is yes p ng Unit.	lease prov	ide API	f availal	ole, Ope	rator	Name	and v	vell ni	umber	for [Definir	ng well fo	r Horizontal
API #	ł													
Ope	rator Nai	me:	<u> </u>			Pro	perty N	lame:						Well Number

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State of New Mexico Energy, Minerals and Natural Resources Department

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

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Submit Original to Appropriate District Office

GAS CAPTURE PLAN

Date: 1/21/2020		
	O O O O O O O O O O O O O O O O O O O	272224
☑ Original	Operator & OGRID No.:	3/3986
☐ Amended - Reason for Amendment:		

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

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

Well(s)/Production Facility - El Campeon CTB 17N

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

Well Name		API	Well Loc	ation	Footages	Expected	Flared or	Comments
			(ULSTR)			MCF/D	Vented	
Cattlemen F	ed Com		Sec 17,	T26S,	2084' FNL &			El Campeon CTB 17N
322H			R35E		1994' FWL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	2084' FNL &			El Campeon CTB 17N
512H			R35E		2024' FWL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	2084' FNL &			El Campeon CTB 17N
432H			R35E		2054' FWL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	2310' FNL &			El Campeon CTB 17N
032H			R35E	ŕ	1994' FWL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	2310' FNL &			El Campeon CTB 17N
112H			R35E		2024' FWL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	2310' FNL &			El Campeon CTB 17N
122H			R35E		2054' FWL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	2077' FNL &			El Campeon CTB 17N
403H			R35E		1972' FEL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	2077' FNL &			El Campeon CTB 17N
513H			R35E		1942' FEL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	2077' FNL &			El Campeon CTB 17N
323H			R35E		1912' FEL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	2303' FNL &			El Campeon CTB 17N
203H			R35E		1957' FEL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	2303' FNL &			El Campeon CTB 17N
123H			R35E		1927' FEL			will be utilized
Cattlemen F	ed Com			T26S,	1948' FNL &			El Campeon CTB 17N
434H			R35E		952' FEL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	1948' FNL &			El Campeon CTB 17N
514H			R35E		922' FEL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	1948' FNL &			El Campeon CTB 17N
404H			R35E		982' FEL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	2174' FNL &			El Campeon CTB 17N
114H			R35E		952' FEL			will be utilized
	ed Com		Sec 17,	T26S,	2174' FNL &			El Campeon CTB 17N
204H		0-025-48123			922' FEL			will be utilized
Cattlemen F	ed Com		Sec 17,	T26S,	2174' FNL &			El Campeon CTB 17N
034H			R35E		892' FEL			will be utilized
Lonesome D	ove Fed		Sec 17,	T26S,	2530' FSL &			El Campeon CTB 17N
Com 203H			R35E		1957' FEL			will be utilized

Lonesome Dove	Fed	Sec 17, T26S,	2530' FSL &	El Campeon CTB 17N
Com 123H		R35E	1927' FEL	will be utilized
Lonesome Dove	Fed	Sec 17, T26S,	2304' FSL &	El Campeon CTB 17N
Com 403H		R35E	1972' FEL	will be utilized
Lonesome Dove	Fed	Sec 17, T26S,	2304' FSL &	El Campeon CTB 17N
Com 513H		R35E	1942' FEL	will be utilized
Lonesome Dove	Fed	Sec 17, T26S,	2304' FSL &	El Campeon CTB 17N
Com 323H		R35E	1912' FEL	will be utilized
Lonesome Dove	Fed	Sec 17, T26S,	2515' FSL &	El Campeon CTB 17N
Com 034H		R35E	1079' FEL	will be utilized
Lonesome Dove	Fed	Sec 17, T26S,	2515' FSL &	El Campeon CTB 17N
Com 114H		R35E	1139' FEL	will be utilized
Lonesome Dove	Fed	Sec 17, T26S,	2515' FSL &	El Campeon CTB 17N
Com 204H		R35E	1109' FEL	will be utilized
Lonesome Dove	Fed	Sec 17, T26S,	2289' FSL &	El Campeon CTB 17N
Com 404H		R35E	1079' FEL	will be utilized
Lonesome Dove	Fed	Sec 17, T26S,	2289' FSL &	El Campeon CTB 17N
Com 434H		R35E	1139' FEL	will be utilized
Lonesome Dove	Fed	Sec 17, T26S,	2289' FSL &	El Campeon CTB 17N
Com 514H		R35E	1109' FEL	will be utilized

Gathering System and Pipeline Notification

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

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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