FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMLC0062269A **BUREAU OF LAND MANAGEMENT** PPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No Single Zone 1c. Type of Completion: Hydraulic Fracturing Multiple Zone **GHOST RIDER 22-15 FEDERAL CON** 205H 2. Name of Operator 9. API Well No. **APACHE CORPORATION** 30-00 G 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 303 Veterans Airpark Lane #1000 Midland TX 79705 (432)818-1000 BONE SPRING / WILDCAT; BONE & 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 22 / T24S / R32E / NMP At surface SESW / 442 FSL / 2286 FWL / LAT 32.1970115 / LONG -103.6636815 At proposed prod. zone NESW / 2589 FSL / 2310 FWL / LAT 32.2174271 / LONG -103,6635818 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office\* 30 miles LEA NM 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well 100 feet location to nearest 600 **240** property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location\* 19. Proposed Depth 20./BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet 10499 feet / 18083 feet FED: NMB000736 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 3593 feet 04/01/2019 17 days 24. Attachments (as applicable) 1. Well plat certified by a registered surveyor. Item 20 above). 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the

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

- 4. Bond to cover the operations unless covered by an existing bond on file (see

25. Signature (Electronic Submission)	Name (Printed/Typed) Sorina Flores / Ph: (432)818-1167	Date 10/31/2018
Title Supv of Drilling Services		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 03/14/2019
Title Assistant Field Manager Lands & Minerals	Office CARLSBAD	
Application approval does not warrent or certify that the appli	icant holds local or aguitable title to those rights in the muhi	ant lange which would entitle the

applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

roval Date: 03/14/2019

KZ 126/19

#### **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.

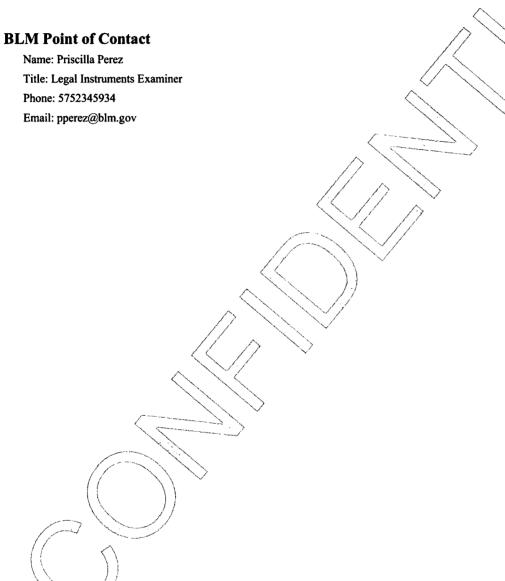
## **Additional Operator Remarks**

#### **Location of Well**

1. SHL: SESW / 442 FSL / 2286 FWL / TWSP: 24S / RANGE: 32E / SECTION: 22 / LAT: 32.1970115 / LONG: -103.6636815 ( TVD: 0 feet, MD: 0 feet )

PPP: SESW / 346 FSL / 2240 FWL / TWSP: 24S / RANGE: 32E / SECTION: 22 / LAT: 32.1967499 / LONG: -103.663828 ( TVD: 10440 feet, MD: 10547 feet )

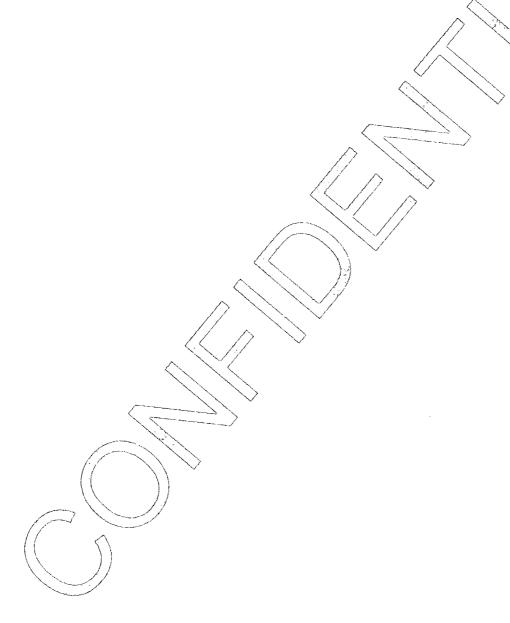
BHL: NESW / 2589 FSL / 2310 FWL / TWSP: 24S / RANGE: 32E / SECTION: 15 / LAT: 32.2174271 / LONG: -103.6635818 ( TVD: 10499 feet, MD: 18083 feet )



(Form 3160-3, page 3)

## **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 DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | APACHE CORPORATION

LEASE NO.: | NMLC0062269A

WELL NAME & NO.: 205H – GHOST RIDER 22-15 FEDERAL COM

SURFACE HOLE FOOTAGE: | 442'/S & 22866'/E BOTTOM HOLE FOOTAGE | 2589'/S & 2310'/E

LOCATION: | SECTION 22, T24S, R32E, NMPM

COUNTY: LEA

Potash	© None	Secretary	C R-111-P
Cave/Karst Potential	• Low	<b>○</b> Medium	↑ High
Variance	None	Flex Hose	Other
Wellhead	• Conventional	Multibowl	
Other	☐4 String Area	☐Capitan Reef	□WIPP

#### A. HYDROGEN SULFIDE

1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

#### **B. CASING**

- The 13 3/8 inch surface casing shall be set at approximately 1050 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
   Excess calculates to 24% additional cement might be required.
  - 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.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** 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 is:

## **Option 1 (Single Stage):**

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Excess calculates to 21% - additional cement might be required.

#### **Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office. Excess calculates to 19% additional cement might be required.
- 3. The minimum required fill of cement behind the 5 1/2 inch production casing is:
  - Cement should tie-back at least 200 feet into previous casing string.
     Operator shall provide method of verification. Excess calculates to 14% additional cement might be required.

#### C. PRESSURE CONTROL

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

3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9 5/8 inch intermediate casing shoe shall be 5000 (5M) psi.

#### D. SPECIAL REQUIREMENT(S)

#### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, 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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Page 3 of 8

## **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)
  - \[
     \] Chaves and Roosevelt Counties
     \[
     \] Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
     \[
     \]
     During office hours call (575) 627-0272.
     \[
     \] After office hours call (575)
     \[
     \]
  - 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 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.
- 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.
- 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.

Page 5 of 8

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

#### B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: 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

Page 6 of 8

plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

#### C. DRILLING MUD

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

## D. WASTE MATERIAL AND FLUIDS

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

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

## PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	APACHE CORPORATION
LEASE NO.:	
WELL NAME & NO.:	205H – GHOST RIDER 22-15 FEDERAL COM
SURFACE HOLE FOOTAGE:	442'/S & 2286'/E
BOTTOM HOLE FOOTAGE	2589'/S & 2310'/E
LOCATION:	SECTION 22, T24S, R32E, NMPM
COUNTY:	LEA

## **TABLE OF CONTENTS**

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
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Hydrology
■ 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

Page 1 of 18

#### 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 and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator 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 shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

#### 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.

Page 2 of 18

## V. SPECIAL REQUIREMENT(S)

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, 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 feet from the source of the noise.

<u>Ground-level Abandoned Well Marker to avoid raptor perching</u>: 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.

#### **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.

#### **Hydrology:**

The entire well pad 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 top soil 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.

Page 3 of 18

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.

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 valves 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.

Electric Lines: 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.

Page 4 of 18

#### VI. 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.

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)

Page 5 of 18

#### **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.

#### Ditching

Ditching shall be required on both sides of the road.

#### **Turnouts**

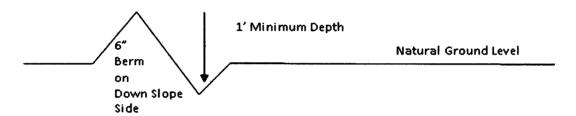
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

## **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: 
$$\frac{400'}{40\%} + 100' = 200'$$
 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**

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.

Page 7 of 18

## **Construction Steps**

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

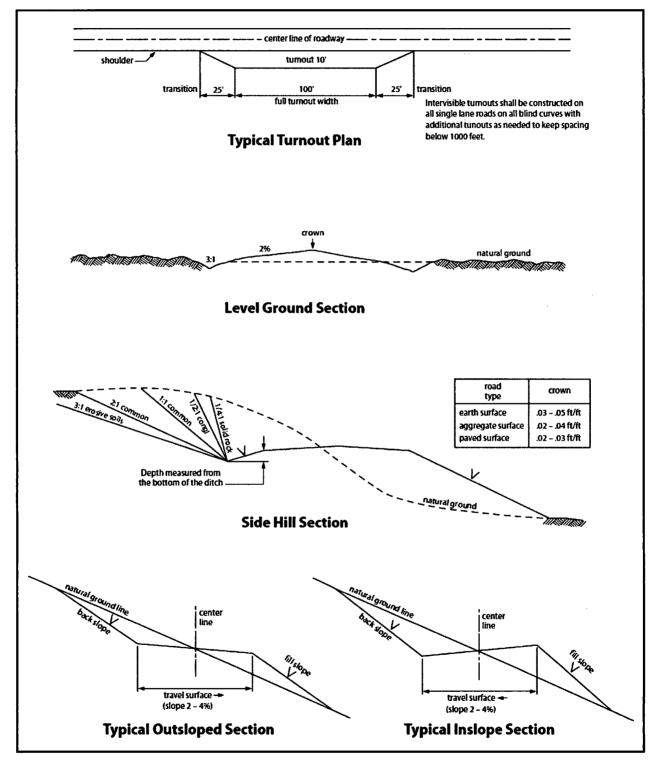


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

## VII. 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**

Page 9 of 18

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

#### **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 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

Page 10 of 18

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 36 inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be <u>30</u> 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 30 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.

Page 11 of 18

- 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	
() seed mixture 2	( ) seed mixture 4	
(X) seed mixture 2/LPC	( ) Aplomado Falco	n 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 and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. 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 proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 17. 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.
- 18. <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.
- 19. Special Stipulations:

#### Lesser Prairie-Chicken

Oil and gas activities 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. 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.

#### C. ELECTRIC LINES

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, 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.

Page 14 of 18

- 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 and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. 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 proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

#### 11. Special Stipulations:

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

#### 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.

## VIII. 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.

Page 16 of 18

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

#### IX. 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.

Page 17 of 18

#### Seed Mixture for LPC Sand/Shinnery Sites

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 shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall 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). 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. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may 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	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

<sup>\*</sup>Pounds of pure live seed:

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



**NAME:** Sorina Flores

**Email address:** 

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



Signed on: 10/30/2018

## **Operator Certification**

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

Title: Supv of Drilling	Services	
Street Address: 303	Veterans Airpark Ln #1000	
City: Midland	State: TX	<b>Zip:</b> 79705
Phone: (432)818-116	7	
Email address: sorina	a.flores@apachecorp.com	
Field Repre	sentative	
Representative Na	me:	
Street Address:		
City:	State:	Zip:
Phone:		



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

# Application Data Report 03/14/2019

APD ID: 10400035231

Submission Date: 10/31/2018

**Operator Name: APACHE CORPORATION** 

Well Number: 205H

Show Final Text

ision cair con

Well Name: GHOST RIDER 22-15 FEDERAL COM

Well Work Type: Drill

Well Type: OIL WELL

#### Section 1 - General

APD ID: 10400035231

Tie to previous NOS?

Submission Date: 10/31/2018

**BLM Office: CARLSBAD** 

**User:** Sorina Flores

Title: Supv of Drilling Services

Federal/Indian APD: FED

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

Lease number: NMLC0062269A

Lease Acres: 600

Surface access agreement in place?

Allotted?

Reservation:

**Zip:** 79705

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

**Permitting Agent? NO** 

**APD Operator: APACHE CORPORATION** 

Operator letter of designation:

#### **Operator Info**

**Operator Organization Name: APACHE CORPORATION** 

Operator Address: 303 Veterans Airpark Lane #1000

**Operator PO Box:** 

State: TX

Operator City: Midland

.

**Operator Phone:** (432)818-1000

**Operator Internet Address:** 

## **Section 2 - Well Information**

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

**Master SUPO name:** 

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: GHOST RIDER 22-15 FEDERAL COM

Well Number: 205H

**Well API Number:** 

Field/Pool or Exploratory? Field and Pool

Field Name: BONE SPRING

Pool Name: WILDCAT;BONE

SPRING, S

Is the proposed well in an area containing other mineral resources? USEABLE WATER

**Operator Name: APACHE CORPORATION** 

Well Name: GHOST RIDER 22-15 FEDERAL COM

Well Number: 205H

Describe other minerals:

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

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: **GHOST RIDER 22-15** 

**Number: 2 WEST** 

Well Class: HORIZONTAL

Number of Legs: 1

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

Well sub-Type: EVALUATION

Describe sub-type: DEVELOPMENT WELL

Distance to town: 30 Miles

Distance to nearest well: 30 FT Distance to lease line: 100 FT

Reservoir well spacing assigned acres Measurement: 240 Acres

Well plat: GhostRider22\_15FedCom205H\_PlatREV\_signed\_20181015140122.pdf

Well work start Date: 04/01/2019

**Duration: 17 DAYS** 

#### **Section 3 - Well Location Table**

**Survey Type: RECTANGULAR** 

Describe Survey Type:

Datum: NAD83

**Vertical Datum: NAVD88** 

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	442	FSL	228 6	FWL	248	32E	22	Aliquot SESW	32.19701 15	- 103.6636 815	LEA	NEW MEXI CO				359 3	0	0
KOP Leg #1	150	FSL	221 8	FWL	248	32E	22	Aliquot SESW	32.19607 22	- 103.6638 999	1	NEW MEXI CO	145		NMLC0 062269 A	- 642 8	100 36	100 21
PPP Leg #1	346	FSL	224 0	FWL	248	32E	22	Aliquot SESW	32.19674 99	- 103.6638 28	LEA	I	NEW MEXI CO		NMLC0 062269 A	- 684 7	105 47	104 40

**Operator Name: APACHE CORPORATION** 

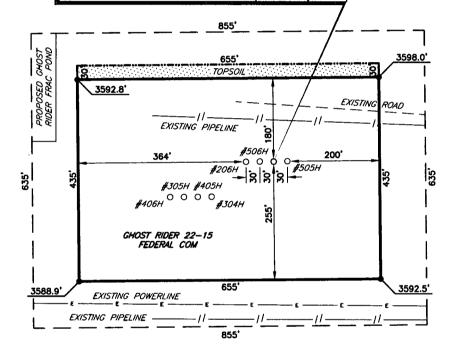
Well Name: GHOST RIDER 22-15 FEDERAL COM

Well Number: 205H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	ΔΛΤ
EXIT Leg #1	258 9	FSL	231 0	FWL	248	32E	15	Aliquot NESW	32.21742 71	- 103.6635 818	LEA		NEW MEXI CO		NMNM 003988 0	- 690 6	180 83	104 99
BHL Leg #1	258 9	FSL	231 0	FWL	248	32E	15	Aliquot NESW	32.21742 71	- 103.6635 818	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 003988 0	- 690 6	180 83	104 99

APACHE CORPORATION
GHOST RIDER 22-15 FED COM #205H
(442' FSL & 2286' FWL)
SECTION 22, T24S, R32E
N. M. P. M., LEA CO., NEW MEXICO

GHOST RIDER 22-15 FEDERAL COM #205H ELEV.: 3593' LAT: 32.1970115° N (NAD 83) LONG: 103.6636815° W (NAD 83)



SCALE: 1" = 200'
0 100 200
BEARINGS ARE
NAD 83 GRID - NM EAST
DISTANCES ARE
GROUND.

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Jeffrey L. Vanster
Verfrey L. Fansler NM PS 10034



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NO.	REVISION	DATE				
JOB NO - 1 S1805672						

JOB NO.: LS1805672 DWG. NO.: 1805672\_205H

308 W. BROADWAY ST., HOBBS, NM 88240

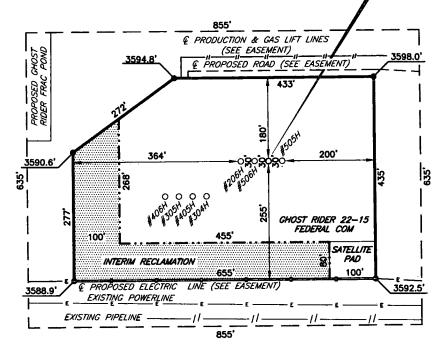
(575) 964-8200

9	nt 2016 – Ali Rights Reserved
	SCALE: 1" = 200'
	DATE: 5-24-2018
	SURVEYED BY: AB/RU
	DRAWN BY: JBT
	APPROVED BY: RMH
1	SHEET: 1 OF 1

# APACHE CORPORATION GHOST RIDER 22-15 FEDERAL COM #205H

(442' FSL & 2286' FWL) SECTION 22, T24S, R32E N. M. P. M., LEA CO., NEW MEXICO

GHOST RIDER 22-15 FEDERAL COM #205H ELEV.: 3593' LAT: 32.1970115' N (NAD 83) LONG: 103.6636815' W (NAD 83)



#### DIRECTIONS TO LOCATION

From the intersection of CR J-1 (Orla Rd.) and St. Hwy 128, Go East on St. Hwy 128 approx. 0.6 miles to a lease road on the right; Turn right and go South approx. 1.2 miles to lease road on the right; Turn right and go West approx. 0.2 miles to proposed location on the left.

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief,

Jeffrey S. Vanster

Verfrey J. Fansler NM PS 10034

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	CHANGE PAD SHAPE	8-20-18					
	UPDATE PLAT	7-30-18					
NO.	REVISION	DATE					
JOB NO : 151805672							

DWG. NO.: 1805672REC 205

BEARINGS ARE GRID NAD 83

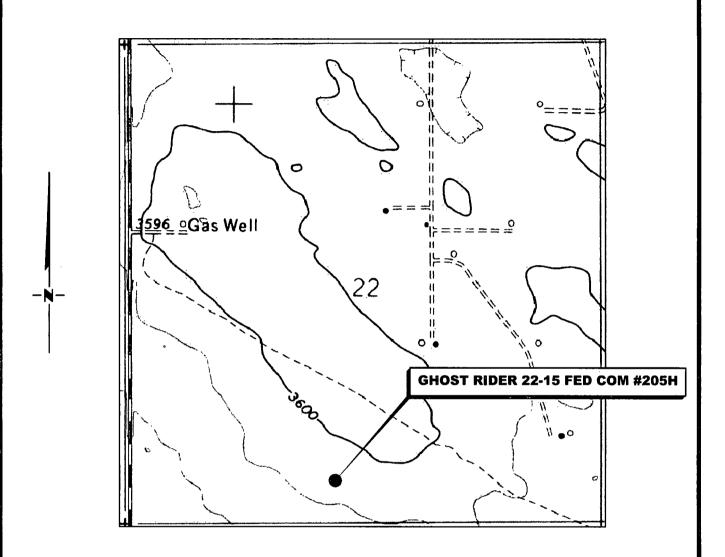
NM EAST DISTANCES ARE HORIZ. GROUND.



308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 200'
DATE: 5-24-2018
SURVEYED BY: AB/RU
DRAWN BY: JBT
APPROVED BY: RMH
SHEET: 1 OF 1

# LOCATION VERIFICATION MAP



SECTION 22, TWP. 24 SOUTH, RGE. 32 EAST, N. M. P. M., LEA CO., NEW MEXICO

OPERATOR: Apache Corporation

LEASE: Ghost Rider 22-15 Fed com

WELL NO.: 205H

ELEVATION: 3593'

LOCATION: 442' FSL & 2286' FWL

CONTOUR INTERVAL:

USGS TOPO. SOURCE MAP:

Paduca Breaks NW, NM (1973)

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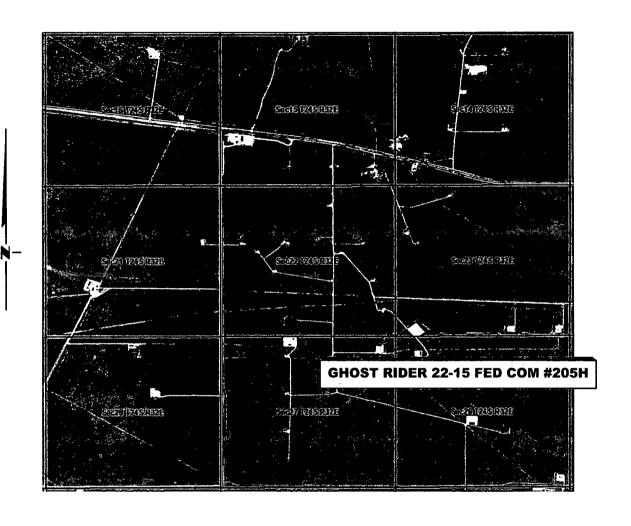
REVISION DATE JOB NO.: LS1805672 DWG. NO.: 1805672LVM 205 308 W. BROADWAY ST., HOBBS, NM 88240



SCALE: 1" = 1000 DATE: 5-29-2018 SURVEYED BY: AB/BC DRAWN BY: CAR APPROVED BY: JLF SHEET: 1 OF 1

# VICINITY MAP

NOT TO SCALE



SECTION 22, TWP. 24 SOUTH, RGE. 32 EAST, N. M. P. M., LEA COUNTY, NEW MEXICO

LEASE: Ghost Rider 22-15 Federal Com

WELL NO.: 205H

OPERATOR: Apache Corporation LOCATION: 442' FSL & 2286' FWL

ELEVATION: 3593'

Copyright 2017 - All Rights Reserved SCALE: N / A

REVISION DATE JOB NO.: LS1805672



DATE: 5-29-2018 SURVEYED BY: AB/BC DRAWN BY: CAR APPROVED BY: JLF SHEET: 1 OF 1

DWG. NO.: 1805672VM 205 308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200



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

**Drilling Plan Data Report** 03/14/2019

APD ID: 10400035231

Submission Date: 10/31/2018

lighlighted dele clieds the mest

**Operator Name: APACHE CORPORATION** 

Well Name: GHOST RIDER 22-15 FEDERAL COM

Well Number: 205H

acomado incoc **Show Final Text** 

Well Type: OIL WELL

Well Work Type: Drill

# **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing
1	QUATERNARY	3593	0	0	Liulologies .	USEABLE WATER	No
2	RUSTLER	2564	1029	1029		POTASH	No
3	SALADO	1254	2339	2339		POTASH	No
4	CASTILE	164	3429	3429		NONE	No
5	LAMAR	-1236	4829	4829	LIMESTONE	NONE	No
6	DELAWARE	-1256	4849	4849		NATURAL GAS,OIL	No
7	AVALON SAND	-5156	8749	8765		NATURAL GAS,OIL	No
8	BONE SPRING 1ST	-6026	9619	9635	OTHER : CARBONATE	NATURAL GAS,OIL	No
9	FIRST BONE SPRING SAND	-6266	9859	9875	OTHER	NATURAL GAS,OIL	No
10	BONE SPRING 2ND	-6426	10019	10035	SANDSTONE OTHER : CARBONATE	NATURAL GAS OIL	No
11	BONE SPRING 2ND	-6846	10439	10547	OTHER : SANDSTONE	NATURAL GAS,OIL	Yes

### **Section 2 - Blowout Prevention**

Arceeuro Reffing ((PEI): 2M

Raing Depik 12200

Equipments Stateling based, murd gas especialer, blow down pit, time line, ipplica

Requeeding Verlence? YES

Valience request Apade requests verience to use a fieldic base between SCP and Chele Marifold. Flax base may very <u>pendhoj evalibbility. A quelliy eonhei inspection end test certificate vall be avalibbister review.</u>

leating Proveture SCPATORS will be tested by independent covice company to 260 psi low and high presence indicated bowe ger Quelage Order 2 requirements. System may be uppreded to litiglier pressure but sill tected to VMP listed . If system b upported, all compensate included will be functional environed. Physicage will be operationally checked each 24 by period. Hind name will be operationally checked on each 160th, These checks will be noted on deligious shocks. Other accessories to 190P conjugate will include Kelly cock and flow reliew value (helds 180th), cheke these and cheke mentickl, (see eiteched

Well Name: GHOST RIDER 22-15 FEDERAL COM

Well Number: 205H

### cheme(is)

### **Choke Diagram Attachment:**

GhostRider22\_15FedCom\_BOP\_CHOKE\_3M\_Interm1\_Rev2.19.19\_20190219151759.pdf

### **BOP Diagram Attachment:**

GhostRider22\_15FedCom\_BOP\_CHOKE\_3M\_Interm1\_Rev2.19.19\_20190219151808.pdf

# Freiens (1:11)g (PS); SM Reling Leptic 12201 Spinstik Velsing Fred, Mud Cas Separin; Flew Down Pt; Flew Live, typior Requesting Verience: YES Verience request: Apaste request a verience to use a firstle lose belives EOP and Chelo Manifold. Flex hose may very pending excitability. Aspetic request a verience to use a firstle lose belives EOP and Chelo Manifold. Flex hose may very pending excitability. Aspetic, control inspection and lost certificte will be available for review. Resting Prosedure: BOPNEOPE will be tested by independent service company to 250pc for and high pressure indicated above per Onchron Order Enequiamenta. System may be appreciate beligher pressure but all tested to MP leist d. If cyclem is apprecial, all components installed will be functional and tested. Pipe name will be operationally checked card, 24 in period. Billy rems will be operationally checked card at the residual tested. Pipe name will be operationally checked card as a first reservantes to BOP equipment will include Relig code and their sections.

### **Choke Diagram Attachment:**

GhostRider22\_15FedCom\_BOP\_Choke\_5M\_Interm2\_Curve\_Lat\_2.19.19\_20190219151714.pdf

### **BOP Diagram Attachment:**

GhostRider22\_15FedCom\_BOP\_Choke\_5M\_Interm2\_Curve\_Lat\_2.19.19\_20190219151723.pdf

### **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom:Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1050	0	1050		Į.	1050	J-55	54.5	BUTT	4.66	1.17	BUOY	4.7	BUOY	4.38
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4860	0	4860			4860	J-55	40	LTC	1.99	1.91	BUOY	1.8	BUOY	2.17
	PRODUCTI ON	8.75	5.5	NEW	API	N	0	10861	0	10574			10861	P- 110	17	BUTT	1.46	1.25	BUOY	2.18	BUOY	2.07
	PRODUCTI ON	8.5	5.5	NEW	API	N	10861	18158	10574	10559			7297	P- 110	17	BUTT	1.46	1.25	BUOY	2.18	BUOY	2.07

**Operator Name: APACHE CORPORATION** Well Name: GHOST RIDER 22-15 FEDERAL COM Well Number: 205H **Casing Attachments** Casing ID: 1 String Type: SURFACE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): GhostRider22\_15FedCom205H\_SurfCsgDesignAssumpt\_Plan\_20181018134348.pdf Casing ID: 2 **String Type:**INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): GhostRider22\_15FedCom205H\_IntermCsgDesignAssumpt\_Plan\_20181018134403.pdf Casing ID: 3 **String Type:**PRODUCTION **Inspection Document: Spec Document: Tapered String Spec:** 

SaltFork3\_4FedCom101H\_ProdCsgTaperedSpecs\_20180515134945.pdf

GhostRider22\_15FedCom205H\_ProdCsgDesignAssumpt\_Plan\_20181018134421.pdf

Casing Design Assumptions and Worksheet(s):

Well Name: GHOST RIDER 22-15 FEDERAL COM

Well Number: 205H

### **Casing Attachments**

Casing ID: 4

String Type: PRODUCTION

**Inspection Document:** 

**Spec Document:** 

### **Tapered String Spec:**

 $SaltFork 3\_4 Fed Com 101 H\_Prod Csg Tapered Specs\_20180515134957.pdf$ 

### Casing Design Assumptions and Worksheet(s):

 $GhostRider 22\_15 Fed Com 205 H\_Prod Csg Design Assumpt\_Plan\_20181018134429.pdf$ 

Section	4 - C	emen	t			;				ř.	
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		(e) )	TTO	336	1.75	1816	GF&J/	25	CIC	4% Sanville, 1% Geige
SURFACE	Tail		730	1639	220	1.50	13,3	500,5 Q	26	e e	1% Cada
INTERMEDIATE	Lead		(f)		\$4 <b>\$</b>	2.32	127	4160. 4	25	CIC	10% Sudem Chiedle. 3% Egypeter Gol. 1% Egype M. 1. 12872k Egype PESt. 2.7% GFT- 20. (Texnolo)
INTERMEDIATE	Tail			Wain.	235	146	14.5			<u> </u>	1027 Satun Chais, 175 Mgazan, Gaza 66. 2 (Cigarana, Caza 68 - 2024 (Relation)
PRODUCTION	Lead		4330	7300	245Q	3.71	9		20	TXI Lite	673 Sedem Chaice, 1236 1467 - 2427 214 Barbis, 2236 B 22 (214 Barbis, 0225 G 1420 (Flis Laux), 0.426 (223) (Suspension All), 0.426 (Suspension All), 0.426 (Suspension All), 0.426

PRODUCTION	Lead	VIO	107A 3AG	2.54	REGE BY	20	TXL Lite	5% Grina Calolio,
			1 1 1					41-26 (3) (3) (3) (4) (5) (5)
		ļ	•				ļ	CIPT-Sig (Flore (Lases)
								Q. LOCA CONT
	<u> </u>	ي بيد المحمد	<u> </u>		المستندين المحسوس ويبينا			

Well Name: GHOST RIDER 22-15 FEDERAL COM

Well Number: 205H

<u> </u>									•	<u></u>	
String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		1001	1816 8	1666	1.46		27239. 1	<i>7</i> 10		(Suspension/Ni), 0.4% GPT-23 (Retarder) 1.5% Section Cribile, 5% MgOxelf, 0.5% GPT-19 (Pluid Loss) ,
											0.173 CPT-51A ((And- Sening Agend), 6.575 CPT-20A (Defeder), 0.273 CD-8 (Dispersent), 0.473 CPT-50SP (Defenier))

# **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

**Describe what will be on location to control well or mitigate other conditions:** BOP, Choke Manifold, Gas Buster, Blow Down Pit, Flare Line with Igniter, Pre-Mix Pit, Rotating Head

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

# **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1050	SPUD MUD	8.3	9.5							
1050	4860	SALT SATURATED	9.8	10.5					,	···	
4860	1815 8	OTHER : CUT BRINE	8.8	10							Plan for curve and lateral
4860	1815 8	OIL-BASED MUD	8.3	10							Contingency in case torque and drag become an issue

Well Name: GHOST RIDER 22-15 FEDERAL COM

Well Number: 205H

## Section 6 - Test, Logging, Coring

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

Will run GR/CNL from TD to surf (horizontal well - vertical portion of hole). Stated logs run will be in the completion report & submitted to BLM.

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

DS,GR,MUDLOG

Coring operation description for the well:

N/A

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure: 4914** 

**Anticipated Surface Pressure: 2604.21** 

Anticipated Bottom Hole Temperature(F): 164

Anticipated abnormal pressures, temperatures, or potential geologic hazards? YES

Describe:

Losses in Brushy Canyon and water flows from Bell/Cherry Canyon

Contingency Plans geoharzards description:

Lightweight cmt will be pumped for prod lead to increase chances of tie back into previous csg string. Contingency csg designs will be implemented if water flows become an issue in the Bell/Cherry Canyon.

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

GhostRider22 15FedCom205H H 206H 506H 505H H2SOpsContgPlan 20181018141905.pdf

### **Section 8 - Other Information**

### Proposed horizontal/directional/multi-lateral plan submission:

 $GhostRider 22\_15 Fed Com 205 H\_Dir Survey Plan\_20181018141941.pdf$ 

GhostRider22\_15FedCom205H\_Wallplot\_20181018142006.pdf

Other proposed operations facets description:

Apadra Corp respectfully aspect topologic towall as a specific rig to pro-est end cep. (Floare-case flathman) for procedure. Then-Firm is to set from hide funite florestene and ceptions with Scoting capalisign if no water flows in Delevere or if water flows are small.

### Other proposed operations facets attachment:

GhostRider22 15FedCom205H CmtDetail\_REVISED\_2.19.19\_20190219154303.pdf

GhostRider22 15FedCom205H CsgDetail REVISED 2.19.19 20190219154304.pdf

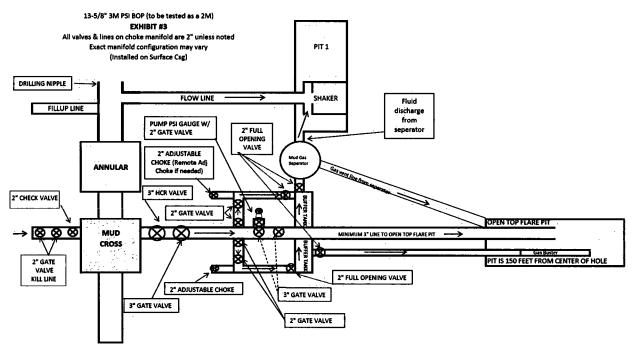
GhostRider22\_15FedCom205H\_SpudderRigProcedure\_20190219154305.pdf

### Other Variance attachment:

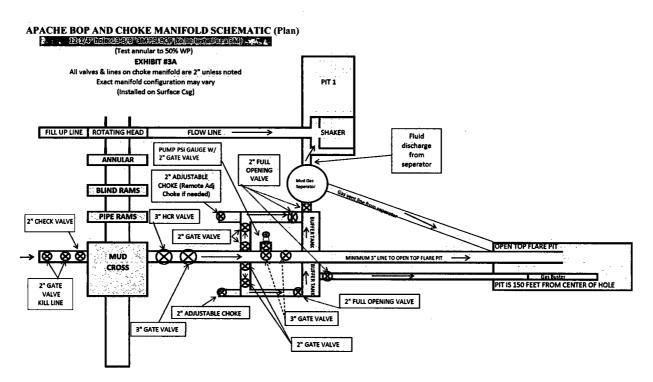
Well Name: GHOST RIDER 22-15 FEDERAL COM Well Number: 205H

Flexline\_20180829152310.pdf
GhostRider22\_15FedCom203H\_SpudderRigProcedure\_20181008160816.pdf

### APACHE BOP AND CHOKE MANIFOLD SCHEMATIC

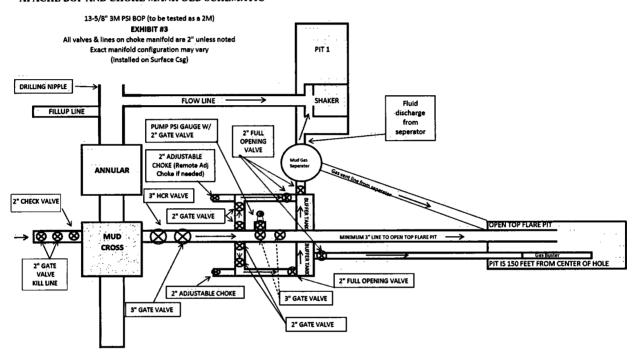


\*\*\* If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke \*\*\*



\*\*\* If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke \*\*\*

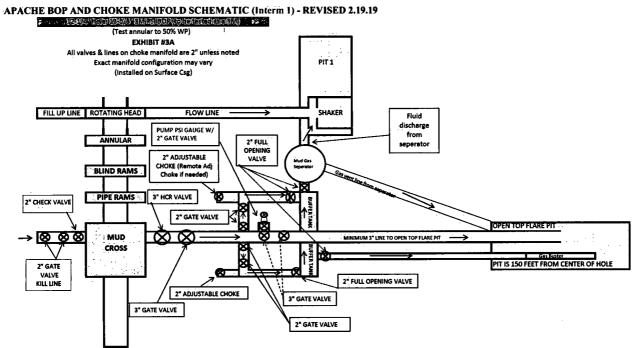
### APACHE BOP AND CHOKE MANIFOLD SCHEMATIC



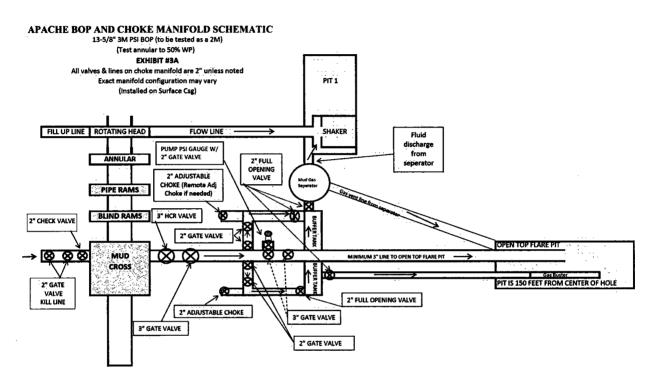
\*\*\* If H25 is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke \*\*\*

### APACHE BOP AND CHOKE MANIFOLD SCHEMATIC (Interm 2 & Curve/Lateral) - REVISED 2.19.19 [Test annular to 50% WP] [Test annular to 50% WP] EXHIBIT #3B All valves & lines on choke manifold are 2" unless noted Exact manifold configuration may vary PIT 1 (Installed on Surface Csg) FILL UP LINE ROTATING HEAD FLOW LINE SHAKER Fluid discharge PUMP PSI GAUGE W/ 2" GATE VALVE from 2" FULL OPENING VALVE seperator 2" ADJUSTABLE CHOKE (Remote Adj Choke if needed) 3° HCR VALVE BLIND RAMS 2" CHECK VALVE 2" GATE VALVE OPEN TOP FLARE PIT MUD MINIMUM 3" LINE TO OPEN TOP FLARE PIT CROSS PIT IS 150 FEET FROM CENTER OF HOLE 2" GATE VALVE KILL LINE 2" FULL OPENING VALVE PIPE RAMS 2" ADJUSTABLE CHOKE 3" GATE VALVE 3" GATE VALVE 2" GATE VALVE

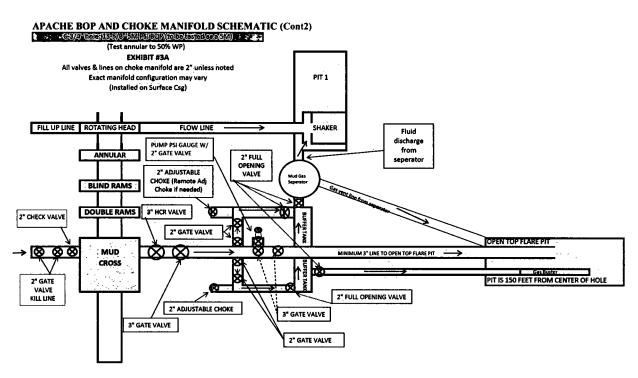
\*\*\* If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke \*\*\*



\*\*\* If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke \*\*\*



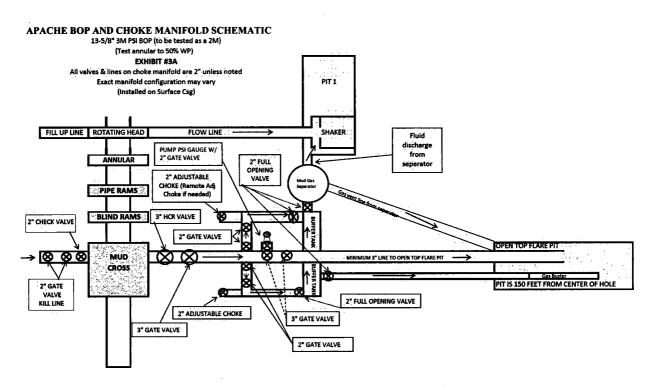
\*\*\* If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke \*\*\*



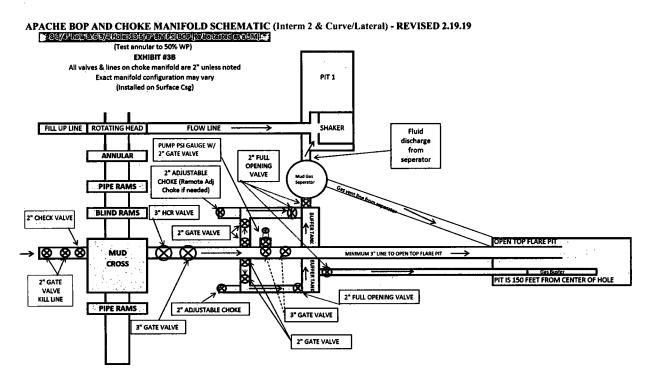
\*\*\* If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke \*\*\*

### APACHE BOP AND CHOKE MANIFOLD SCHEMATIC (Plan/Cont1) (Test annular to 50% WP) EXHIBIT #3A All valves & lines on choke manifold are 2" unless noted Exact manifold configuration may vary (Installed on Surface Csg) PIT 1 SHAKER Fluid discharge PUMP PSI GAUGE W/ 2" GATE VALVE from 2" FULL seperator OPENING VALVE 2" ADJUSTABLE CHOKE (Remote Adj Choke if needed) BLIND RAMS 3" HCR VALVE 2" CHECK VALVE 2" GATE VALVE OPEN TOP FLARE PIT > Ø Ø Ø MUD MINIMUM 3" LINE TO OPEN TOP FLARE PIT CROSS PIT IS 150 FEET FROM CENTER OF HOLE 2" GATE VALVE KILL LINE 2" FULL OPENING VALVE 2" ADJUSTABLE CHOKE 3" GATE VALVE 3" GATE VALVE 2" GATE VALVE

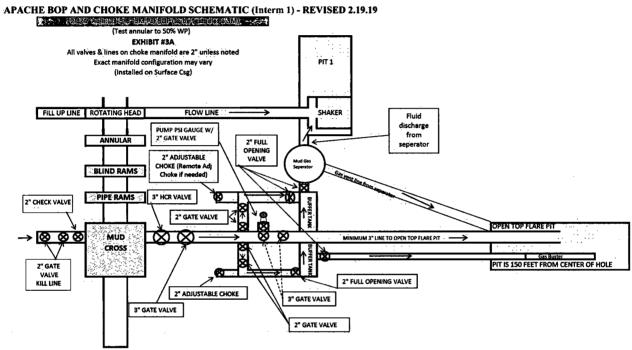
\*\*\* If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke \*\*\*



\*\*\* If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke \*\*\*



\*\*\* If H25 is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke \*\*\*



\*\*\* If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke \*\*\*

# **Salt Fork 3-4 Federal COM 101H Production Casing Tapered String Specs**

String	OD/Weight/Grade	Connection	MD Interval	Minimum Safety Factor (Abs)			
			(ft)	Burst	Collapse	Axial	
Production	7", 26 ppf, P-110	BTC, P-110	0-7060'	1.5	1.92	2.95	
Casing	5 ½", 17 ppf, P-110	BTC, P-110	7060'-15011'	1.6	2.12	2.46	

<sup>\*</sup>This will be a cemented tapered casing string. 5-1/2" will crossover to 7" at KOP. (KOP @ $^{\sim}7060'$ ).

• • • • • • • • • • • • • • • • • • •	<b>Production Casing Burst Design</b>	
Load Case	External Pressure	Internal Pressure
Pressure Test	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Fluid in hole (water or produced water) + test psi
Tubing Leak	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Packer @ KOP, leak below surface 8.6 ppg packer fluid
Stimulation	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Max frac pressure with heaviest frac fluid
Green Cement Pressure Test	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Max pressure used to bump the plug during cement job

Production Casing Collapse Design							
Load Case	External Pressure	Internal Pressure					
Full Evacuation	Mud weight string was set in	None					
Cementing	Wet cement weight	Water (8.33 ppg)					

Production Casing Axial Design							
Load Case Assumptions							
Overpull	100 kips						
Running in hole	2 ft/s						
<b>Green Cement Pressure Test</b>	Max pressure when bumping plug						
Service Loads N/A							

# **Salt Fork 3-4 Federal COM 101H Production Casing Tapered String Specs**

String	OD/Weight/Grade	Connection	MD Interval	Minimum Safety Factor (Abs)				
			(ft)	Burst	Collapse	Axial		
Production	7", 26 ppf, P-110	BTC, P-110	0-7060'	1.5	1.92	2.95		
Casing	5 ½", 17 ppf, P-110	BTC, P-110	7060′-15011′	1.6	2.12	2.46		

<sup>\*</sup>This will be a cemented tapered casing string. 5-1/2" will crossover to 7" at KOP. (KOP @ $^{\sim}7060'$ ).

	Production Casing Burst Design	
Load Case	External Pressure	Internal Pressure
Pressure Test	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Fluid in hole (water or produced water) + test psi
Tubing Leak	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Packer @ KOP, leak below surface 8.6 ppg packer fluid
Stimulation	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Max frac pressure with heaviest frac fluid
Green Cement Pressure Test	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Max pressure used to bump the plug during cement job

Production Casing Collapse Design			
Load Case External Pressure Internal Pressure			
Full Evacuation	Mud weight string was set in	None	
Cementing	Wet cement weight	Water (8.33 ppg)	

Production Casing Axial Design		
Load Case Assumptions		
Overpull 100 kips		
Running in hole 2 ft/s		
Green Cement Pressure Test Max pressure when bumping plug		
Service Loads N/A		

## Production

Production Casing Burst Design			
Load Case	External Pressure	Internal Pressure	
Pressure Test	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Fluid in hole (water or produced water) + test psi	
Tubing Leak	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Packer @ KOP, leak below surface 8.6 ppg packer fluid	
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Green Cement Pressure Test	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Max pressure used to bump the plug during cement job	

Production Casing Collapse Design		
Load Case External Pressure Internal Pressure		
Full Evacuation	Mud weight string was set in	None
Cementing	Wet cement weight	Water (8.33 ppg)

Production Casing Axial Design		
Load Case Assumptions		
Overpull 100 kips		
Running in hole 2 ft/s		
Green Cement Pressure Test Max pressure when bumping plug		
Service Loads N/A		

## Production

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Load Case	External Pressure	Internal Pressure
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Green Cement Pressure Test	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Max pressure used to bump the plug during cement job

Production Casing Collapse Design			
Load Case External Pressure Internal Pressure			
Full Evacuation	Mud weight string was set in	None	
Cementing	Wet cement weight	Water (8.33 ppg)	

Production Casing Axial Design		
Load Case Assumptions		
Overpull 100 kips		
Running in hole 2 ft/s		
Green Cement Pressure Test Max pressure when bumping plug		
Service Loads N/A		

### **Production**

Production Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Fluid in hole (water or produced water) + test psi
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Production Casing Collapse Design		
Load Case External Pressure Internal Pressure		
Full Evacuation	Mud weight string was set in	None
Cementing	Wet cement weight	Water (8.33 ppg)

Production Casing Axial Design		
Load Case Assumptions		
Overpull 100 kips		
Running in hole 2 ft/s		
Green Cement Pressure Test Max pressure when bumping plug		
Service Loads N/A		

### **Production**

Production Casing Burst Design			
Load Case	External Pressure	Internal Pressure	
Pressure Test	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Fluid in hole (water or produced water) + test psi	
Tubing Leak	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Packer @ KOP, leak below surface 8.6 ppg packer fluid	
Stimulation	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Max frac pressure with heaviest frac fluid	
Green Cement Pressure Test	Mud base fluid density to TOC, cement mix-water gradient to outer shoe and pore pressure to TD	Max pressure used to bump the plug during cement job	

Production Casing Collapse Design		
Load Case External Pressure Internal Pressure		
Full Evacuation	Mud weight string was set in	None
Cementing	Wet cement weight	Water (8.33 ppg)

Production Casing Axial Design		
Load Case Assumptions		
Overpull 100 kips		
Running in hole 2 ft/s		
Green Cement Pressure Test Max pressure when bumping plug		
Service Loads N/A		

### Surface

Surface Casing Burst Design			
Load Case	External Pressure	Internal Pressure	
Pressure Test	Mud and Cement Mix Water	Test psi with Mud Weight of displacement fluid	
Fracture @ shoe w/ Gas Gradient Above	Mud and Cement Mix Water	Fracture psi at shoe and 0.7 gas gravity above shoe	
Green Cement Pressure Test	Mud and Cement Mix Water	Max pressure used to bump the plug during cement job	
Lost Returns with Water	Mud and Cement Mix Water	Pressure to fracture shoe with water hydrostatic	

Surface Casing Collapse Design		
Load Case	External Pressure	Internal Pressure
Full/Partial Evacuation	Mud weight string was set in	50% casing evacuation with surface mud inside casing
Lost Returns with Mud Drop	Mud weight string was set in	Lost returns at intermediate casing point with brine
Cementing	Wet cement weight	Water (8.33 ppg)

Surface Casing Axial Design		
Load Case Assumptions		
Overpull 100 kips		
Running in hole 2 ft/s		
Green Cement Pressure Test Max pressure when bumping plug		
Service Loads N/A		

### Intermediate

Intermediate Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Mud and Cement Mix Water	Test psi with Mud Weight of displacement fluid
Fracture @ shoe w/ Gas Gradient Above	Mud and Cement Mix Water	Fracture psi at shoe and 0.7 gas gravity above shoe
Green Cement Pressure Test	Mud and Cement Mix Water	Max pressure used to bump the plug during cement job
Lost Returns with Water	Mud and Cement Mix Water	Pressure to fracture shoe with water hydrostatic

Intermediate Casing Collapse Design		
Load Case External Pressure Internal Pressure		
Full/Partial Evacuation	Mud weight string was set in	50% casing evacuation with intermediate mud inside casing
Lost Returns with Mud Drop	Mud weight string was set in	Lost returns at TD casing shoe with 9.2 ppg mud
Cementing	Wet cement weight	Water (8.33 ppg)

Intermediate Casing Axial Design		
Load Case Assumptions		
Overpull 100 kips		
Running in hole 2 ft/s		
Green Cement Pressure Test Max pressure when bumping plug		
Service Loads N/A		

### Surface

Surface Casing Burst Design			
Load Case	External Pressure	Internal Pressure	
Pressure Test	Mud and Cement Mix Water	Test psi with Mud Weight of displacement fluid	
Fracture @ shoe w/ Gas Gradient Above	Mud and Cement Mix Water	Fracture psi at shoe and 0.7 gas gravity above shoe	
Green Cement Pressure Test	Mud and Cement Mix Water	Max pressure used to bump the plug during cement job	
Lost Returns with Water	Mud and Cement Mix Water	Pressure to fracture shoe with water hydrostatic	

Surface Casing Collapse Design			
Load Case	External Pressure	Internal Pressure	
Full/Partial Evacuation	Mud weight string was set in	50% casing evacuation with surface mud inside casing	
Lost Returns with Mud Drop	Mud weight string was set in	Lost returns at intermediate casing point with brine	
Cementing	Wet cement weight	Water (8.33 ppg)	

Surface Casing Axial Design		
Load Case Assumptions		
Overpull 100 kips		
Running in hole 2 ft/s		
Green Cement Pressure Test Max pressure when bumping plu		
Service Loads N/A		

### Intermediate

Intermediate Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Mud and Cement Mix Water	Test psi with Mud Weight of displacement fluid
Fracture @ shoe w/ Gas Gradient Above	Mud and Cement Mix Water	Fracture psi at shoe and 0.7 gas gravity above shoe
Green Cement Pressure Test	Mud and Cement Mix Water	Max pressure used to bump the plug during cement job
Lost Returns with Water	Mud and Cement Mix Water	Pressure to fracture shoe with water hydrostatic

Intermediate Casing Collapse Design							
Load Case	External Pressure	Internal Pressure					
Full/Partial Evacuation	Mud weight string was set in	50% casing evacuation with intermediate mud inside casing					
Lost Returns with Mud Drop	Mud weight string was set in	Lost returns at TD casing shoe with 9.2 ppg mud					
Cementing	Wet cement weight	Water (8.33 ppg)					

Intermediate Casing Axial Design					
Load Case	Assumptions				
Overpull	100 kips				
Running in hole	2 ft/s				
Green Cement Pressure Test	Max pressure when bumping plug				
Service Loads	N/A				

### HYDROGEN SULFIDE (H2S) DRILLING OPERATIONS PLAN

### **Hydrogen Sulfide Training:**

<u>All regularly assigned personnel, contracted or employed by Apache Corporation</u> will receive training from qualified instructor(s) in the following areas prior to commencing drilling possible hydrogen sulfide bearing formations in this well:

- The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S)
- The proper use and maintenance of personal protective equipment and life support systems.
- The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing area, evacuation procedures & prevailing winds.
- The proper techniques for first aid and rescue procedures.

### Supervisory personnel will be trained in the following areas:

- The effects of H<sub>2</sub>S on metal components. If high tensile tubulars are to be utilized, personnel will be trained in their special maintenance requirements.
- Corrective action & shut-in procedures when drilling or reworking a well & blowout prevention / well control procedures.
- The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan

There will be an initial training session just prior to encountering a known or probable  $H_2S$  zone (within 3 days or 500') and weekly  $H_2S$  and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific  $H_2S$  Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received proper training.

### H<sub>2</sub>S SAFETY EQUIPMENT AND SYSTEMS:

### Well Control Equipment that will be available & installed if H<sub>2</sub>S is encountered:

- Flare Line with electronic igniter or continuous pilot.
- Choke manifold with a minimum of one remote choke.
- Blind rams & pipe rams to accommodate all pipe sizes with properly sized closing unit.
- Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head & flare gun with flares

### **Protective Equipment for Essential Personnel:**

Mark II Survive-air 30 minute units located in dog house & at briefing areas, as indicated on wellsite diagram.

### **H2S Dection and Monitoring Equipment:**

- Two portable H<sub>2</sub>S monitors positioned on location for best coverage & response. These units have warning lights & audible sirens when H<sub>2</sub>S levels of 20 ppm are reached.
- One portable H<sub>2</sub>S monitor positioned near flare line.

### **H2S Visual Warning Systems:**

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

### **Mud Program:**

- The Mud Program has been designed to minimize the volume of H<sub>2</sub>S circulated to the surface. Proper mud weights, safe drilling practices & the use of H<sub>2</sub>S scavengers will minimize hazards when penetrating H<sub>2</sub>S bearing zones.
- A mud-gas separator and H<sub>2</sub>S gas buster will be utilized as needed.

### **Metallurgy**:

- All drill strings, casing, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold & lines, & valves will be suitable for H<sub>2</sub>S service.
- All elastomers used for packing & seals shall be H₂S trim.

### **Communication:**

Cellular telephone and 2-way radio communications in company vehicles, rig floor and mud logging trailer.

# HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

# **Assumed 100 ppm ROE = 3000'**

100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.

### **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, 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 H<sub>2</sub>S 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 operators and/or local officials to aid in operation. See list of phone numbers attached
- Have received training in the :
  - o Detection of H<sub>2</sub>S, and
  - o Measures for protection against the gas,
  - o 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 (SO<sub>2</sub>). 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 this is an ignition of the gas.

### Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

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

### **Contacting Authorities**

Apache Corporation 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 including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Apache's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

# **WELL CONTROL EMERGENCY RESPONSE PLAN**

### I. GENERAL PHILOSOPHY

Our objective is to ensure that during an emergency, a predetermined procedure is followed so that prompt decisions can be made based on accurate information.

The best way to handle and emergency is with an experienced organization set up for the sole purpose of solving the problem. The *Well Control Emergency Response Team* was organized to handle dangerous & expensive well control problems. The *Team* is structured such that each individual can contribute the most from his area of expertise. Key decision-makers are determined prior to an emergency to avoid confusion about who is in charge.

If the well is flowing uncontrolled at the surface or subsurface, *The Emergency Response Team* will be mobilized. The *Team* is customized for the people currently on the Apache staff. Staff changes may require a change in the plan.

### II. <u>EMERGENCY PROCEDURE ON DRILLING OR COMPLETION OPERATIONS</u>

A. In the event of an emergency the *Drilling Foreman or Tool-Pusher* will immediately contact only one of the following starting with the first name listed:

Name	Office	Mobile	Home
Danny Laman – Drlg Superintendent	432-818-1022	432-634-0288	
John Vacek – Drilling Engineer	432-818-1882	281-222-1812	
Bobby Smith – Drilling Manager	432-818-1020	432-556-7701	
Bill Jones EH&S Coordinator		432-967-9576	

<sup>\*\*</sup>This one phone call will free the Drilling Foreman to devote his full time to securing the safety of personnel & equipment. This call will initiate the process to mobilize the Well Control Emergency Response Team. Apache maintains an Emergency Telephone Conference Room in the Houston office. This room is available for us by the Permian Region. The room has 50 separate telephone lines.

- B. The Apache employee contacted by the Drilling Foreman will begin contacting the rest of the *Team*. If **DANNY LAMAN** is out of contact, **JOHN VACEK** will be notified.
- C. If a member of the Emergency Response Team is away from the job, he must be available for call back. Telephone numbers should be left with secretaries or a key decision-maker.
- **D.** Apache's reporting procedure for spills or releases of oil or hazardous materials will be implemented when spills or releases have occurred or are probable.

### **EMERGENCY RESPONSE NUMBERS:**

SHERIFF DEPARTMENT	
Eddy County	575-887-7551
Lea County	575-396-3611
FIRE DEPARTMENT	911
Artesia	575-746-5050
Carlsbad	575-885-2111
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359
HOSPITALS	911
Artesia Medical Emergency	575-746-5050
Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359
AGENT NOTIFICATIONS	<del> </del>
Bureau of Land Management	575-393-3612
New Mexico Oil Conservation Division	575-393-6161



# **5D Plan Report**

# **Apache Corporation**

Field Name: Apache NM (Nad 83 NMEZ)

**Site Name:** Ghost Rider Pad 3S

Well Name: Ghost Rider 22-15 Fed Com 205H

**Plan:** *P1:V2* 

24 July 2018



5D 8.3.1 (64 bit): 24 July 2018, 18:34:23 UTC-5





# Ghost Rider 22-15 Fed Com 205H

Map Units: US ft

Company Name: Apache Corporation

Field Name: Apache NM (Nad 83 NMEZ) Vertical Reference Datum (VRD): Mean Sea Level

Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Comment:

Site:

35

Units: US ft

North Reference: Grid

Convergence Angle: 0.36

Position:

Northing: 435975.40 US ft

Latitude: 32.196804379

Easting: 748254.10 US ft

Longitude: -103.664408574

Ghost Rider Pad

Elevation above MSL:3592.00 US ft

Comment: Lea Co, NM

**Position (Relative to Site Centre)** 

UWI:

Slot:

+N/-S: 76.80 US ft Northing: 436052.20 US ft

Latitude: 32.197011642

+E/-W: 224.40 US ft Easting: 748478.50 US ft

Longitude: -103.663681625

Ghost Rider 22-15 Fed Com 205H

Elevation above MSL: 3593.00 US ft

**Comment:** 

Type:Main well

File Number:

Comment: H&P 482

Plan:P1:V2

Well:

Closure Distance:7430.12US ft

Closure Azimuth: 359.88°

Ghost Rider 22-15 Fed Com 205H

Vertical Section: Position of Origin (Relative to Slot centre) +N/-S: 0.00 US ft

47792.3nT

+E/-W: -0.00 US ft

Az: 359.88°

**Magnetic Parameters:** 

Model: bggm2018 Field Strength:

Declination: 6.90°

Dip: 59.95°

5D 8.3.1 (64 bit): 24 July 2018, 18:34:23 UTC-5

Date: 28/Dec/2018

Drill floor: Plan: P1:V2

Rig Height (Well TVD Reference): Elevation above MSL: 3619.00US ft Inclination: 0.00°

Azimuth: 0.00°

26.00US ft

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US-ft)	Northing (USFt)	Easting (USFt)	C.Pt.Distance (US:ft)	Comment
S Tgt 205H	Point	10096.54	-342.19	-65.40	435710.01	748413.10	0.00	
T1-4603	Point	10574.00	4603.47	-15.40	440655.67	748463.10	0.00	
T2-5504	Point	10569.00	5504.47	-15.40	441556.67	748463.10	0.00	
T3-6463	Point	10564.00	6463.47	-15.40	442515.67	748463.10	0.00	
T4-7338	Point	10559.00	7338.47	-15.40	443390.67	748463.10	0.00	
PBHL 205H	Point	10559.00	7430.10	-15.40	443482.30	748463.10	0.00	

5D Plan Report

Wellpa	th create	ed using	minimum curvatu	re.							
Tie P MD:	oint: 0.00U	ISFt	Inclination: 0.00°	Azim	uth: 0.00°	TVD: 0.00USFt		<b>orth Offset:</b> 00USFt	· · · · · · · · · · · · · · · · · · ·	East Offset: 0.00USFt	-
		(Relativ	e to Slot centre)(1	(VD relative	to Well TVD Ref		or to appropria		* 3 *		a an entre sur sets a .
M (ÚS		Inc (°)	Az (°)	TVD (US ft):	VS. (US ft)	N.Offset (US-ft-)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
0.0		0.00	0.00	0.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
4900	0.00	0.00	0.00	4900.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	Nudge
5427	².86	5.28	190.82	5427.11	-23.86	-23.87	-4.56	436028.33	748473.94	1.00	Hold
8686	5.47	5.28	190.82	8671.91	-318.20	-318.32	-60.84	435733.88	748417.66	0.00	Drop
9214	.33	0.00	0.00	9199.02	-342.05	-342.19	-65.40	435710.01	748413.10	1.00	Hold
1011	1.85	0.00	0.00	10096.54	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	KOP
1086	1.85	90.00	4.80	10574.00	133.65	133.60	-25.44	436185.80	748453.06	12.00	Landing Pt/Turn
1110	1.85	90.00	0.00	10574.01	373.35	373.32	-15.40	436425.52	748463.10	2.00	Hold
1531	6.08	90.00	0.00	10574.04	4587.57	4587.55	-15.40	440639.75	748463.10	0.00	Hold
1533	2.00	90.32	0.00	10574.00	4603.49	4603.47	-15.40	440655.67	748463.10	2.00	T1-4603
1623		90.32	0.00	10569.01	5503.53	5503.51	-15.40	441555.71	748463.10	0.00	Drop
1623		90.30	0.00	10569.00	5504.49	5504.47	-15.40	441556.67	748463.10	2.00	T2-5504
1719		90.30	0.00	10564.01	6461.90	6461.88	-15.40	442514.08	748463.10	0.00	Build
1719		90.33	0.00	10564.00	6463.49	6463.47	-15.40	442515.67	748463.10	2.00	T3-6463
1805		90.33	0.00	10559.05	7321.96	7321.94	-15.40	443374.14	748463.10	0.00	Drop
1806		90.00	0.00	10559.00	7338.49	7338.47	-15.40	443390.67	748463.10	2.00	T4-7338
1815	8.67	90.00	0.00	10559.00	7430.12	7430.10	-15.40	443482.30	748463.10	0.00	PBHL 205H
Interp	olated P	oints: (R	elative to Slot cen	tre)(TVD re	lative to Well TV	/D Reference)					
MI	D -	Inc		TVD	VŠ	N.Offset	E.Offset	Northing	Easting	DLS	Comment
(US	ft)	(°)	.Az (°)	(US ft)	(US-ft)	(US ft)	(US ft)	(US'ft)	(ÚS ft)	(°/100US ft)	
0.0		0.00	0.00	0.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
100		0.00	0.00	100.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
200		0.00	0.00	200.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
300		0.00	0.00	300.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
400		0.00	0.00	400.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
500		0.00	0.00	500.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
600		0.00	0.00	600.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
700		0.00	0.00	700.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
800		0.00	0.00	800.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
900		0.00	0.00	900.00 1000.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
1000		0.00	0.00 0.00	1030.00	0.00 0.00	0.00 0.00	-0.00	436052.20	748478.50 748478.50	0.00	Duetles :
1100		0.00	0.00	1100.00	0.00	0.00	-0.00 -0.00	436052.20 436052.20	748478.50	0.00	Rustler :
1200		0.00	0.00	1200.00	0.00	0.00	-0.00	436052.20	748478.50	0.00 0.00	
1300		0.00	0.00	1300.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
1400		0.00	0.00	1400.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
1500		0.00	0.00	1500.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
1600		0.00	0.00	1600.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
1700		0.00	0.00	1700.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
1800	0.00	0.00	0.00	1800.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
1900	0.00	0.00	0.00	1900.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
2000	0.00	0.00	0.00	2000.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
2100	0.00	0.00	0.00	2100.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
2200	0.00	0.00	0.00	2200.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
2300	0.00	0.00	0.00	2300.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
2340	0.00	0.00	0.00	2340.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	Salado :
2400	0.00	0.00	0.00	2400.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
2500	0.00	0.00	0.00	2500.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
2600	0.00	0.00	0.00	2600.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
2700	0.00	0.00	0.00	2700.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
2800	0.00	0.00	0.00	2800.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
2900	0.00	0.00	0.00	2900.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
3000	0.00	0.00	0.00	3000.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	

5D 8.3.1 (64 bit): 24 July 2018, 18:34:23 UTC-5

5D Plan Report

	Interpolated I	Points: (Rela	ative to Slot ce	ntre\(TVD rel	ative to Well	TVD Reference	-).				
3300.00	MD	Inc		TVD	VS	N.Offset	E.Offset				Comment
3300.00   0.00   0.00   3300.00   0.00   0.00   0.00   436952.20   748778.50   0.00		4.4.44	<del></del>								
3400.0   0.00   0.00   3430.0   0.00   0.00   0.00   436952.2   74878.5   0.00   Cartile :	3200.00	0.00	0.00	3200.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
3450.00   0.00   0.00   3450.00   0.00   0.00   0.00   45652.20   746478.50   0.00   0.00   3500.00   0.00   0.00   0.00   45652.20   746478.50   0.00   0.00   3500.00   0.00   0.00   0.00   45652.20   746478.50   0.00   0.00   3500.00   0.00   0.00   0.00   45652.20   746478.50   0.00   0.00   3500.00   0.00   0.00   0.00   45652.20   746478.50   0.00   0.00   0.00   0.00   0.00   0.00   45652.20   746478.50   0.00   0.00   0.00   0.00   0.00   0.00   45652.20   746478.50   0.00   0.00   0.00   0.00   0.00   0.00   0.00   45652.20   746478.50   0.00   0.00   0.00   0.00   0.00   0.00   0.00   45652.20   746478.50   0.00   0.00   0.00   0.00   0.00   0.00   45652.20   746478.50   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   45652.20   746478.50   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   45652.20   746478.50   0.00	3300.00	0.00	0.00	3300.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
3500.00   0.00   0.00   3500.00   0.00   0.00   0.00   436952.20   746478.55   0.00	3400.00	0.00	0.00	3400.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
3600.00   0.00   0.00   3900.00   0.00   0.00   -0.00   456552.20   748478.50   0.00   3800.00   0.00   0.00   0.00   -0.00   456552.20   748478.50   0.00   456552.00   0.00   0.00   456552.00   0.00   0.00   456552.00   0.00   0.00   456552.00   0.00   0.00   456552.00   0.00   0.00   456552.00   0.00   0.00   456552.00   0.00   0.00   456552.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   456552.00   0	3430.00	0.00	0.00	3430.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	Castile :
3700.00   0.00   0.00   3700.00   0.00   0.00   0.00   436052.20   748478.50   0.00   0.00   3800.00   0.00   0.00   0.00   0.00   436052.20   748478.50   0.00	3500.00	0.00	0.00	3500.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
3800.00   0.00   0.00   3800.00   0.00   0.00   0.00   4.36052.20   748478.50   0.00	3600.00	0.00	0.00	3600.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
3900.00   0.00   0.00   3900.00   0.00   0.00   0.00   456952.20   748478.50   0.00   0.00   4100.00   0.00   0.00   0.00   4100.00   0.00   0.00   4100.00   0.00   0.00   4100.00   0.00   0.00   4100.00   4100.00   0.00   4100.00   0.00   4100.00   0.00   4100.00   0.00   4100.00   0.00   4100.00   4100.00   4100.00   0.00   4100.00   4	3700.00	0.00	0.00	3700.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
400.00   0.00   0.00   400.00   0.00   0.00   0.00   4.000   4.000   0.00   0.00   4.000   4.000   0.00   0.00   4.0	3800.00	0.00	0.00	3800.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
400.00 0.00 0.00 4100.00 0.00 0.00 0.00	3900.00	0.00	0.00	3900.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
4200.00   0.00   0.00   4200.00   0.00   0.00   0.00   0.00   436052.20   748478.50   0.00   0.00   4300.00   0.00   0.00   0.00   0.00   436052.20   748478.50   0.00   0.00   4400.00   0.00   0.00   0.00   0.00   436052.20   748478.50   0.00   0.00   4500.00   0.00   0.00   0.00   0.00   436952.20   748478.50   0.00   0.00   4500.00   0.00   0.00   0.00   0.00   436952.20   748478.50   0.00   0.00   4500.00   0.00   0.00   0.00   0.00   436952.20   748478.50   0.00   0.00   4500.00   0.00   0.00   0.00   0.00   436952.20   748478.50   0.00   0.00   4500.00   0.00   0.00   0.00   0.00   436952.20   748478.50   0.00   0.00   4500.00   0.00   0.00   0.00   0.00   436952.20   748478.50   0.00   0.00   4500.00   0.00   0.00   0.00   0.00   436952.20   748478.50   0.00   0.00   4500.00   0.00   0.00   0.00   0.00   436952.20   748478.50   0.00   0.00   4500.00   0.00   0.00   0.00   0.00   436952.20   748478.50   0.00   0.00   4500.00   0.00   0.00   0.00   0.00   436952.20   748478.50   0.00   0.00   0.00   0.00   0.00   0.00   4500.00   0.00   0.00   4500.00   0.00   0.00   4500.00   0.00   0.00   4500.00   0.00   4500.00   0.00   4500.00   0.00   4500.00   0.00   4500.00   0.00   4500.00   0.00   4500.00   0.00   450	4000.00	0.00	0.00	4000.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
4300.00	4100.00	0.00	0.00	4100.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
4400.00 0.00 0.00 4500.00 0.00 0.00 0.00	4200.00	0.00	0.00	4200.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
4500.00 0.00 0.00 4500.00 0.00 0.00 0.00	4300.00	0.00	0.00	4300.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
4500.00		0.00	0.00	4400.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
4780.00	4500.00	0.00	0.00	4500.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
4800.00	4600.00	0.00	0.00	4600.00	0.00	0.00	-0.00	436052.20	748478.50	0.00	
4850.00 0.00 0.00 0.00 4950.00 0.00 0.00 0.00 436052.20 748478.50 0.00 Nudge 6900.00 0.00 0.00 190.82 599.96 0.3.43 0.3.43 0.666 436048.77 748477.84 1.00 748477.84 1.00 748478.00 0.00 190.82 599.96 0.3.43 0.3.43 0.666 436048.77 748477.84 1.00 748478.50 1.00 74		0.00	0.00		0.00	0.00	-0.00	436052.20	748478.50	0.00	
\$490.00											
5000.00         1.00         190.82         4999.99         -0.86         -0.86         -0.16         436051.34         748478.34         1.00           5100.00         2.00         190.82         5999.96         -3.43         -3.43         -0.66         436048.77         748477.03         1.00           5200.00         3.00         190.82         5399.68         -13.70         -13.71         -2.62         436038.49         748477.41         1.00           5400.00         5.00         190.82         5399.37         -21.41         -21.42         4.09         436030.78         748477.41         1.00         Hold           5500.00         5.28         190.82         5498.95         -30.37         -30.39         -5.81         436021.81         748472.49         0.00           5600.00         5.28         190.82         5599.52         -39.41         -39.42         -75.34         436032.37         748470.97         0.00           5700.00         5.28         190.82         5599.10         -48.44         -48.46         -9.26         436003.74         748467.97         0.00           5900.00         5.28         190.82         5599.68         -57.47         -57.49         19.42         4359											
\$100.00         2.00         190.82         5099.96         -3.43         -3.43         -0.66         436048.77         748477.84         1.00           \$200.00         3.00         190.82         5199.86         -7.71         -7.71         -1.47         436044.49         748475.88         1.00           \$300.00         4.00         190.82         5399.37         -21.41         -21.42         -4.09         436030.78         748474.41         1.00           \$427.86         5.28         190.82         5499.95         -30.37         -30.39         -8.16         436030.78         748474.41         1.00         Hold           \$500.00         5.28         190.82         5599.52         -39.41         -39.42         -7.53         436013.78         748472.69         0.00           \$500.00         5.28         190.82         5599.10         -48.44         -84.66         -9.26         436003.74         748469.24         0.00           \$500.00         5.28         190.82         5599.68         -75.47         -57.49         -10.99         435994.71         748467.51         0.00           \$500.00         5.28         190.82         6599.63         -75.54         -75.74         -457.49         4											Nudge
\$200.00         3.00         190.82         \$199.86         -7.71         -7.71         -1.47         436044.49         748477.03         1.00           \$300.00         4.00         190.82         \$299.68         -13.70         -13.71         -2.62         436038.49         748477.88         1.00           \$400.00         5.00         190.82         \$399.37         -21.41         -21.42         -4.96         436038.33         748473.94         1.00         Hold           \$500.00         5.28         190.82         \$598.55         -30.37         -30.39         -5.81         436028.33         748472.69         0.00           \$700.00         5.28         190.82         \$598.51         -30.37         -30.39         -5.81         436002.81         748470.99         0.00           \$700.00         5.28         190.82         \$598.61         -57.47         -57.49         -10.99         435994.71         748467.51         0.00           \$800.00         5.28         190.82         \$5996.83         -75.47         -57.59         -10.99         43594.71         748465.79         0.00           \$4500.00         5.28         190.82         6996.83         -75.54         -75.57         -14.44 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
5300.00         4.00         190.82         5299.68         -13.70         -13.71         -2.62         436038.49         748475.88         1.00           5400.00         5.00         190.82         5399.37         -21.41         -21.42         -4.09         436030.76         748474.41         1.00         Hold           5500.00         5.28         190.82         5498.95         -30.37         -30.39         -5.81         436021.81         748472.69         0.00         -5600.00         5.28         190.82         5598.52         -39.41         -39.42         -7.53         436021.78         748470.97         0.00         -5800.00         5.28         190.82         5598.63         -75.49         -10.99         435994.71         748467.51         0.00         -5800.00         5.28         190.82         5897.25         -66.50         -66.53         -12.71         435998.67         748467.51         0.00         -9600.00         5.28         190.82         6996.83         -75.54         -75.57         -14.44         435976.07         748467.51         0.00         -6000.00         5.28         190.82         6995.83         -75.54         -75.57         -14.44         435976.00         748465.79         0.00         -6000.00         5.28 <td></td>											
5400.00         5.00         190.82         5399.37         -21.41         -21.42         -4.09         436030.78         748474.41         1.00         Hold           5427.66         5.28         190.82         5427.11         -23.86         -22.87         -4.56         436028.33         748472.94         1.00         Hold           5500.00         5.28         190.82         5598.52         -39.41         -39.42         -7.53         436012.78         748470.97         0.00           5700.00         5.28         190.82         5598.10         -48.44         -48.46         -9.26         435003.74         748469.94         0.00           5800.00         5.28         190.82         5897.68         -57.47         -57.49         -10.99         435994.71         748465.51         0.00           6000.00         5.28         190.82         6996.80         -84.60         -16.17         435995.60         748465.51         0.00           6100.00         5.28         190.82         6995.55         -102.63         -102.68         -19.62         435946.03         0.00           6200.00         5.28         190.82         6295.55         -102.63         -102.68         -19.62         435945.52											
5427.86         5.28         190.82         5427.11         -23.86         -23.87         -4.56         436028.33         748473.94         1.00         Hold           5500.00         5.28         190.82         5498.95         -30.37         -30.39         -5.81         436021.81         748470.97         0.00           5600.00         5.28         190.82         5698.10         -48.44         -48.46         -9.26         436003.74         748469.24         0.00           5800.00         5.28         190.82         5797.68         -57.47         -57.49         -10.99         435994.71         748467.51         0.00           5900.00         5.28         190.82         5996.83         -75.54         -75.79         -10.99         435995.67         748465.79         0.00           6000.00         5.28         190.82         6996.40         -84.57         -84.60         -16.17         435967.63         748460.00         0.00           6200.00         5.28         190.82         6995.51         -102.63         -102.68         -19.62         435945.52         748456.00         0.00           6400.00         5.28         190.82         6995.51         -111.70         -120.75         -23.08											
5500.00         5.28         190.82         5498.95         -30.37         -30.39         -5.81         436021.81         748472.69         0.00           5600.00         5.28         190.82         5598.52         -39.41         -39.42         -7.53         436012.78         748469.24         0.00           5700.00         5.28         190.82         5597.68         -57.47         -57.49         -10.99         435994.71         748467.51         0.00           5900.00         5.28         190.82         5997.25         -66.50         -66.53         -12.71         435996.50         748465.79         0.00           6000.00         5.28         190.82         5996.33         -75.54         -75.57         -14.44         435976.60         748462.33         0.00           6200.00         5.28         190.82         6995.80         -93.60         -93.64         -17.90         435996.50         748462.33         0.00           6300.00         5.28         190.82         6295.55         -102.63         -102.68         -19.62         435945.15         0.00           6500.00         5.28         190.82         6494.71         -120.70         -120.75         -23.08         435931.45         748455.15 <td></td>											
5600.00         5.28         190.82         5598.52         -39.41         -39.42         -7.53         436012.78         748470.97         0.00           5700.00         5.28         190.82         5698.10         -48.44         -48.46         -9.26         436003.74         748469.24         0.00           5800.00         5.28         190.82         5697.25         -66.50         -66.53         -12.71         435995.67         748467.79         0.00           6000.00         5.28         190.82         5996.83         -75.54         -75.57         -14.44         435976.63         748462.33         0.00           6100.00         5.28         190.82         6996.40         -84.57         -84.60         -16.17         435997.63         748462.33         0.00           6200.00         5.28         190.82         6295.55         -102.63         -102.68         -19.62         4359949.52         748458.88         0.00           6400.00         5.28         190.82         6395.13         -111.67         -111.71         -21.35         435940.49         748457.15         0.00           6500.00         5.28         190.82         6594.28         -129.73         -129.78         -24.80         435922.47											Hold
5700.00         5.28         190.82         5698.10         -48.44         -48.46         -9.26         436003.74         748469.24         0.00           5800.00         5.28         190.82         5597.68         -57.47         -57.49         -10.99         435994.71         748467.51         0.00           5900.00         5.28         190.82         5996.83         -75.54         -75.57         -14.44         435997.63         748464.06         0.00           6100.00         5.28         190.82         6996.40         -84.57         -84.60         -16.17         435987.60         748462.33         0.00           6200.00         5.28         190.82         6195.98         -93.60         -93.64         -17.90         435994.52         748485.88         0.00           6300.00         5.28         190.82         6395.13         -111.67         -111.71         -21.35         435940.49         748457.15         0.00           6500.00         5.28         190.82         6693.86         -129.73         129.78         2-24.80         435991.43         748455.42         0.00           6700.00         5.28         190.82         6693.86         -138.76         -138.62         -26.53         435991.43											
5800.00         5.28         190.82         5797.68         -57.47         -57.49         -10.99         435994.71         748467.51         0.00           5900.00         5.28         190.82         5897.25         -66.50         -66.53         -12.71         435985.67         748465.79         0.00           6000.00         5.28         190.82         6996.83         -75.54         -75.57         -14.44         435976.60         748462.33         0.00           6200.00         5.28         190.82         6996.40         -84.57         -84.60         -16.17         435967.60         748462.33         0.00           6300.00         5.28         190.82         6995.55         -102.63         -102.68         -19.62         435993.52         748468.88         0.00           6400.00         5.28         190.82         6395.13         -111.67         -111.71         -21.35         435991.45         748455.42         0.00           6500.00         5.28         190.82         6593.86         -138.76         -138.82         -24.80         435991.33         748455.42         0.00           6700.00         5.28         190.82         6693.86         -138.76         -138.82         -26.53         43591.											
5900.00         5.28         190.82         5897.25         -66.50         -66.53         -12.71         435985.67         748465.79         0.00           6000.00         5.28         190.82         5996.83         -75.54         -75.57         -14.44         435976.63         748461.06         0.00           6100.00         5.28         190.82         6096.40         -84.57         -84.60         -16.17         435967.60         748462.33         0.00           6200.00         5.28         190.82         6195.98         -93.60         -93.64         -17.90         435958.55         748458.88         0.00           6300.00         5.28         190.82         6395.13         -111.67         -111.71         -21.35         435940.49         748457.15         0.00           6500.00         5.28         190.82         6594.28         -129.73         -129.78         -24.80         435931.45         748455.42         0.00           6700.00         5.28         190.82         6693.66         -138.76         -138.62         -26.53         435931.45         748451.77         0.00           6800.00         5.28         190.82         6693.43         -147.80         -147.86         -28.26         435901											
6000.00         5.28         190.82         5996.83         -75.54         -75.57         -14.44         435976.63         748464.06         0.00           6100.00         5.28         190.82         6096.40         -84.57         -84.60         -16.17         435957.60         748462.33         0.00           6200.00         5.28         190.82         6195.98         -93.60         -93.64         -17.90         435995.55         748486.88         0.00           6300.00         5.28         190.82         6395.13         -111.67         -111.71         -21.35         435940.49         748457.15         0.00           6500.00         5.28         190.82         6594.28         -129.73         -120.75         -23.08         435931.45         748457.15         0.00           6600.00         5.28         190.82         6694.28         -129.73         -129.78         -24.80         435931.45         748457.70         0.00           6700.00         5.28         190.82         6693.66         -138.76         -138.62         -26.26         435904.34         748450.24         0.00           6900.00         5.28         190.82         6693.43         -147.80         -147.86         -28.26         4359											
6100.00 5.28 190.82 6096.40 -84.57 -84.60 -16.17 435967.60 748462.33 0.00 6200.00 5.28 190.82 6195.98 -93.60 -93.64 -17.90 435958.56 748460.60 0.00 6300.00 5.28 190.82 6295.55 -102.63 -102.63 -102.68 -19.62 435949.52 748458.88 0.00 6400.00 5.28 190.82 6395.13 -111.67 -111.71 -21.35 435940.49 748457.15 0.00 6500.00 5.28 190.82 6494.71 -120.70 -120.75 -23.08 435931.45 748455.42 0.00 6600.00 5.28 190.82 6594.28 -129.73 -129.78 -24.80 435922.42 748453.70 0.00 6700.00 5.28 190.82 6693.86 -138.76 -138.82 -26.53 435931.35 748445.77 0.00 6800.00 5.28 190.82 6793.43 -147.80 -147.86 -28.26 435904.34 74845.24 0.00 6900.00 5.28 190.82 6893.01 -156.83 -156.89 -29.98 435895.31 748446.52 0.00 7000.00 5.28 190.82 6992.59 -165.86 -165.93 -31.71 435886.27 748446.79 0.00 7100.00 5.28 190.82 7092.16 -174.90 -174.97 -33.44 435877.23 748446.00 0.00 7200.00 5.28 190.82 7092.16 -174.90 -174.97 -33.44 435877.23 748445.06 0.00 7300.00 5.28 190.82 7291.31 -192.96 -193.04 -36.89 435895.16 748441.61 0.00 7400.00 5.28 190.82 7390.89 -201.99 -202.07 -38.62 435850.13 748439.88 0.00 7500.00 5.28 190.82 7390.89 -201.99 -202.07 -38.62 435850.13 748439.88 0.00 7600.00 5.28 190.82 7390.89 -201.99 -202.07 -38.62 435850.13 748439.88 0.00 7700.00 5.28 190.82 7390.89 -201.99 -202.07 -38.62 435850.13 748439.88 0.00 7700.00 5.28 190.82 7390.89 -201.99 -202.07 -38.62 435850.13 748439.88 0.00 7700.00 5.28 190.82 7390.89 -201.99 -202.07 -38.62 435850.13 748439.88 0.00 7700.00 5.28 190.82 7890.47 -211.03 -211.11 -40.35 435814.09 748431.15 0.00 7400.00 5.28 190.82 7890.49 -221.91 -238.12 -238.22 -455.33 435813.99 748432.97 0.00 7400.00 5.28 190.82 7890.49 -221.99 -202.07 -38.62 435850.13 748430.99 748431.55 0.00 7400.00 5.28 190.82 7890.49 -221.99 -222.07 -38.62 435850.13 748439.98 0.00 7400.00 5.28 190.82 7890.49 -221.09 -221.14 -40.35 435814.09 748431.55 0.00 7400.00 5.28 190.82 7890.89 -201.99 -202.07 -38.62 435850.13 748430.99 748431.55 0.00 7400.00 5.28 190.82 7890.89 -201.99 -202.07 -38.62 43580.49 748431.55 0.00 74800.00 5.28 190.82 7890.89 -201.99 -2											
6200.00         5.28         190.82         6195.98         -93.60         -93.64         -17.90         435958.56         748460.60         0.00           6300.00         5.28         190.82         6295.55         -102.63         -102.68         -19.62         435949.52         748458.88         0.00           6400.00         5.28         190.82         6395.13         -111.67         -111.71         -21.35         435940.49         748457.15         0.00           6500.00         5.28         190.82         6594.28         -129.73         -129.78         -24.80         435931.45         748457.15         0.00           6700.00         5.28         190.82         6693.86         -138.76         -138.82         -26.53         435991.38         748451.97         0.00           6800.00         5.28         190.82         6793.43         -147.80         -147.86         -28.26         435904.34         748450.24         0.00           6900.00         5.28         190.82         6993.99         -165.83         -156.89         -29.8         435895.31         748445.22         0.00           700.00         5.28         190.82         7092.16         -174.90         -174.97         -33.44         43											
6300.00         5.28         190.82         6295.55         -102.63         -102.68         -19.62         435949.52         748458.88         0.00           6400.00         5.28         190.82         6395.13         -111.67         -111.71         -21.35         435940.49         748457.15         0.00           6500.00         5.28         190.82         6594.28         -129.73         -129.78         -24.80         435921.42         748453.70         0.00           6700.00         5.28         190.82         6693.86         -138.76         -138.82         -26.53         435913.38         748451.97         0.00           6800.00         5.28         190.82         6693.86         -138.76         -138.82         -26.53         435904.34         748450.24         0.00           6900.00         5.28         190.82         6893.01         -156.83         -156.89         -29.98         435895.31         748446.79         0.00           7000.00         5.28         190.82         7992.16         -174.90         -174.97         -33.44         435897.23         748446.79         0.00           7200.00         5.28         190.82         7991.14         -183.93         -184.00         -35.17 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
6400.00 5.28 190.82 6395.13 -111.67 -111.71 -21.35 435940.49 748457.15 0.00 6500.00 5.28 190.82 6494.71 -120.70 -120.75 -23.08 435931.45 748455.42 0.00 6600.00 5.28 190.82 6594.28 -129.73 -129.78 -24.80 435922.42 748453.70 0.00 6800.00 5.28 190.82 6693.86 -138.76 -138.82 -26.53 435913.38 748451.97 0.00 6800.00 5.28 190.82 6693.80 -147.80 -147.86 -28.26 435904.34 748450.24 0.00 6900.00 5.28 190.82 6993.01 -156.83 -156.89 -29.98 435895.31 748448.52 0.00 7000.00 5.28 190.82 6992.59 -165.86 -165.93 -31.71 435886.27 748446.79 0.00 7000.00 5.28 190.82 7092.16 -174.90 -174.97 -33.44 435877.23 748445.06 0.00 7300.00 5.28 190.82 7792.16 -174.90 -174.97 -33.44 435877.23 748445.06 0.00 7300.00 5.28 190.82 7791.31 -192.96 -193.04 -36.89 435895.11 748441.61 0.00 7400.00 5.28 190.82 7790.99 -201.99 -202.07 -38.62 435801.3 748439.88 0.00 7500.00 5.28 190.82 7790.04 -211.03 -211.11 -40.35 435841.09 748438.15 0.00 7500.00 5.28 190.82 7590.04 -220.06 -220.15 -42.07 435832.05 748434.70 0.00 7500.00 5.28 190.82 7590.04 -220.06 -220.15 -42.07 435832.05 748434.70 0.00 7500.00 5.28 190.82 7789.19 -238.12 -238.22 -45.53 435813.98 748432.97 0.00 7500.00 5.28 190.82 7789.19 -238.12 -238.22 -45.53 435804.94 748432.52 0.00 7500.00 5.28 190.82 7789.19 -238.12 -238.22 -45.53 435804.94 74843.15 0.00 7500.00 5.28 190.82 7789.19 -238.12 -238.22 -45.53 435804.94 748432.97 0.00 7500.00 5.28 190.82 7888.77 -247.16 -247.26 -47.25 435804.94 748432.97 0.00 7500.00 5.28 190.82 7888.77 -247.16 -247.26 -47.25 435804.94 748432.95 0.00 7500.00 5.28 190.82 8087.92 -256.19 -256.29 -48.98 435795.91 748429.52 0.00 8200.00 5.28 190.82 8087.92 -265.22 -265.33 -50.71 435768.80 748424.34 0.00 8200.00 5.28 190.82 8187.50 -274.25 -274.36 -52.44 435777.84 748426.06 0.00 8200.00 5.28 190.82 8187.50 -274.25 -274.36 -52.44 435777.84 748426.06 0.00 8200.00 5.28 190.82 8187.50 -274.25 -274.36 -52.44 435777.84 748426.06 0.00 8200.00 5.28 190.82 8186.65 -292.32 -292.44 -55.89 435750.73 748420.88 0.00											
6500.00 5.28 190.82 6494.71 -120.70 -120.75 -23.08 435931.45 748455.42 0.00 6600.00 5.28 190.82 6594.28 -129.73 -129.78 -24.80 435922.42 748453.70 0.00 6700.00 5.28 190.82 6693.86 -138.76 -138.82 -26.53 435913.38 748451.97 0.00 6800.00 5.28 190.82 6693.81 -156.89 -29.98 435895.31 748450.24 0.00 6900.00 5.28 190.82 6992.59 -165.86 -165.93 -31.71 435866.27 748446.79 0.00 7100.00 5.28 190.82 7092.16 -174.90 -174.97 -33.44 435877.23 748445.06 0.00 7200.00 5.28 190.82 7291.31 -192.96 193.04 -36.89 435895.16 748441.61 0.00 7400.00 5.28 190.82 7390.89 -201.99 -202.07 -38.62 435850.13 748439.88 0.00 7500.00 5.28 190.82 7490.47 -211.03 -211.11 -40.35 435841.09 748438.15 0.00 7500.00 5.28 190.82 7590.04 -220.06 -220.15 -42.07 435832.05 74843.70 0.00 7500.00 5.28 190.82 7790.04 -220.06 -220.15 -42.07 435832.05 74843.70 0.00 7500.00 5.28 190.82 7790.4 -220.06 -220.15 -42.07 435832.05 74843.70 0.00 7500.00 5.28 190.82 7789.19 -238.12 -238.22 -45.53 435813.98 748432.97 0.00 7500.00 5.28 190.82 7898.77 -247.16 -247.26 -47.25 435804.94 748431.25 0.00 7500.00 5.28 190.82 7898.79 -225.07 -283.29 -48.98 435795.91 748429.52 0.00 8200.00 5.28 190.82 7898.79 -225.61.9 -256.29 -48.98 435795.91 748429.52 0.00 8200.00 5.28 190.82 7898.79 -226.53 -50.71 435786.87 748424.34 0.00 8200.00 5.28 190.82 8087.92 -265.22 -265.33 -50.71 435786.87 748424.34 0.00 8200.00 5.28 190.82 8087.92 -265.22 -265.33 -50.71 435786.87 748424.34 0.00 8200.00 5.28 190.82 8087.92 -265.22 -265.33 -50.71 435786.87 748424.34 0.00 8200.00 5.28 190.82 8087.92 -265.22 -265.33 -50.71 435786.87 748424.34 0.00 8200.00 5.28 190.82 8287.07 -283.29 -283.40 -54.16 435768.80 748424.34 0.00 8200.00 5.28 190.82 8287.07 -283.29 -283.40 -54.16 435768.80 748424.34 0.00 8200.00 5.28 190.82 8386.65 -292.32 -265.33 -50.71 435786.87 748426.66 0.00 8200.00 5.28 190.82 8386.65 -292.32 -265.33 -50.71 435786.87 748424.34 0.00 8200.00 5.28 190.82 8386.65 -292.32 -283.40 -54.16 435768.80 748424.34 0.00 8200.00 5.28 190.82 8386.65 -292.32 -285.30 -50.71 435786.87 748426.61 0.00 8200.00 5.28											
6600.00         5.28         190.82         6594.28         -129.73         -129.78         -24.80         435922.42         748453.70         0.00           6700.00         5.28         190.82         6693.86         -138.76         -138.82         -26.53         435913.38         748451.97         0.00           6800.00         5.28         190.82         6793.43         -147.80         -147.86         -28.26         435904.34         748450.24         0.00           6900.00         5.28         190.82         6893.01         -156.83         -156.89         -29.98         435895.31         748446.79         0.00           700.00         5.28         190.82         7092.16         -174.90         -174.97         -33.44         435877.23         748445.06         0.00           7200.00         5.28         190.82         7191.74         -183.93         -184.00         -35.17         435868.20         748443.33         0.00           7300.00         5.28         190.82         7291.31         -192.96         -193.04         -36.89         435859.16         748443.33         0.00           7400.00         5.28         190.82         7390.89         -201.99         -202.07         -38.62 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
6700.00         5.28         190.82         6693.86         -138.76         -138.82         -26.53         435913.38         748451.97         0.00           6800.00         5.28         190.82         6793.43         -147.80         -147.86         -28.26         435904.34         748450.24         0.00           6900.00         5.28         190.82         6893.01         -156.83         -156.89         -29.98         435895.31         748448.52         0.00           7000.00         5.28         190.82         6992.59         -165.86         -165.93         -31.71         435886.27         748445.06         0.00           7100.00         5.28         190.82         7092.16         -174.90         -174.97         -33.44         435877.23         748445.06         0.00           7200.00         5.28         190.82         7191.74         -183.93         -184.00         -35.17         435866.20         748443.33         0.00           7300.00         5.28         190.82         7291.31         -192.96         -193.04         -36.89         435859.16         748441.61         0.00           7400.00         5.28         190.82         7490.47         -211.03         -211.11         -40.35 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
6800.00         5.28         190.82         6793.43         -147.80         -147.86         -28.26         435904.34         748450.24         0.00           6900.00         5.28         190.82         6893.01         -156.83         -156.89         -29.98         435895.31         748448.52         0.00           7000.00         5.28         190.82         6992.59         -165.86         -165.93         -31.71         435886.27         748445.06         0.00           7100.00         5.28         190.82         7092.16         -174.90         -174.97         -33.44         435877.23         748445.06         0.00           7200.00         5.28         190.82         7191.74         -183.93         -184.00         -35.17         435868.20         748443.33         0.00           7300.00         5.28         190.82         7291.31         -192.96         -193.04         -36.89         435859.16         748441.61         0.00           7400.00         5.28         190.82         7390.89         -201.99         -202.07         -38.62         435850.13         748439.88         0.00           7500.00         5.28         190.82         7590.04         -220.06         -220.15         -42.07 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
6900.00         5.28         190.82         6893.01         -156.83         -156.89         -29.98         435895.31         748448.52         0.00           7000.00         5.28         190.82         6992.59         -165.86         -165.93         -31.71         435886.27         748446.79         0.00           7100.00         5.28         190.82         7092.16         -174.90         -174.97         -33.44         435877.23         748445.06         0.00           7200.00         5.28         190.82         7191.74         -183.93         -184.00         -35.17         435868.20         748443.33         0.00           7300.00         5.28         190.82         7291.31         -192.96         -193.04         -36.89         435859.16         748441.61         0.00           7400.00         5.28         190.82         7390.89         -201.99         -202.07         -38.62         435850.13         748439.88         0.00           7500.00         5.28         190.82         7490.47         -211.03         -211.11         -40.35         435841.09         748438.15         0.00           7600.00         5.28         190.82         7689.62         -229.09         -229.18         -43.80 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
7000.00         5.28         190.82         6992.59         -165.86         -165.93         -31.71         435886.27         748446.79         0.00           7100.00         5.28         190.82         7092.16         -174.90         -174.97         -33.44         435877.23         748445.06         0.00           7200.00         5.28         190.82         7191.74         -183.93         -184.00         -35.17         435868.20         748443.33         0.00           7300.00         5.28         190.82         7291.31         -192.96         -193.04         -36.89         435859.16         748441.61         0.00           7400.00         5.28         190.82         7390.89         -201.99         -202.07         -38.62         435850.13         748439.88         0.00           7500.00         5.28         190.82         7490.47         -211.03         -211.11         -40.35         435841.09         748438.15         0.00           7600.00         5.28         190.82         7590.04         -220.06         -220.15         -42.07         435832.05         748436.43         0.00           7800.00         5.28         190.82         7689.62         -229.09         -229.18         -43.80 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
7200.00         5.28         190.82         7191.74         -183.93         -184.00         -35.17         435868.20         748443.33         0.00           7300.00         5.28         190.82         7291.31         -192.96         -193.04         -36.89         435859.16         748441.61         0.00           7400.00         5.28         190.82         7390.89         -201.99         -202.07         -38.62         435850.13         748439.88         0.00           7500.00         5.28         190.82         7490.47         -211.03         -211.11         -40.35         435841.09         748438.15         0.00           7600.00         5.28         190.82         7590.04         -220.06         -220.15         -42.07         435832.05         748436.43         0.00           7700.00         5.28         190.82         7689.62         -229.09         -229.18         -43.80         435823.02         748434.70         0.00           7800.00         5.28         190.82         7789.19         -238.12         -238.22         -45.53         435813.98         748432.97         0.00           8000.00         5.28         190.82         7888.77         -247.16         -247.26         -47.25 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
7300.00         5.28         190.82         7291.31         -192.96         -193.04         -36.89         435859.16         748441.61         0.00           7400.00         5.28         190.82         7390.89         -201.99         -202.07         -38.62         435850.13         748439.88         0.00           7500.00         5.28         190.82         7490.47         -211.03         -211.11         -40.35         435841.09         748438.15         0.00           7600.00         5.28         190.82         7590.04         -220.06         -220.15         -42.07         435832.05         748436.43         0.00           7700.00         5.28         190.82         7689.62         -229.09         -229.18         -43.80         435823.02         748434.70         0.00           7800.00         5.28         190.82         7789.19         -238.12         -238.22         -45.53         435813.98         748432.97         0.00           7900.00         5.28         190.82         7888.77         -247.16         -247.26         -47.25         435804.94         748431.25         0.00           8100.00         5.28         190.82         8087.92         -265.22         -265.33         -50.71 <t< td=""><td>7100.00</td><td>5.28</td><td>190.82</td><td>7092.16</td><td>-174.90</td><td>-174.97</td><td>-33.44</td><td>435877.23</td><td>748445.06</td><td>0.00</td><td></td></t<>	7100.00	5.28	190.82	7092.16	-174.90	-174.97	-33.44	435877.23	748445.06	0.00	
7400.00         5.28         190.82         7390.89         -201.99         -202.07         -38.62         435850.13         748439.88         0.00           7500.00         5.28         190.82         7490.47         -211.03         -211.11         -40.35         435841.09         748438.15         0.00           7600.00         5.28         190.82         7590.04         -220.06         -220.15         -42.07         435832.05         748436.43         0.00           7700.00         5.28         190.82         7689.62         -229.09         -229.18         -43.80         435823.02         748434.70         0.00           7800.00         5.28         190.82         7789.19         -238.12         -238.22         -45.53         435813.98         748432.97         0.00           7900.00         5.28         190.82         7888.77         -247.16         -247.26         -47.25         435804.94         748431.25         0.00           8000.00         5.28         190.82         7988.35         -256.19         -256.29         -48.98         435795.91         748429.52         0.00           8100.00         5.28         190.82         8187.50         -274.25         -274.36         -52.44 <t< td=""><td>7200.00</td><td>5.28</td><td>190.82</td><td>7191.74</td><td>-183.93</td><td>-184.00</td><td>-35.17</td><td>435868.20</td><td>748443.33</td><td>0.00</td><td></td></t<>	7200.00	5.28	190.82	7191.74	-183.93	-184.00	-35.17	435868.20	748443.33	0.00	
7500.00         5.28         190.82         7490.47         -211.03         -211.11         -40.35         435841.09         748438.15         0.00           7600.00         5.28         190.82         7590.04         -220.06         -220.15         -42.07         435832.05         748436.43         0.00           7700.00         5.28         190.82         7689.62         -229.09         -229.18         -43.80         435823.02         748434.70         0.00           7800.00         5.28         190.82         7789.19         -238.12         -238.22         -45.53         435813.98         748432.97         0.00           7900.00         5.28         190.82         7888.77         -247.16         -247.26         -47.25         435804.94         748431.25         0.00           8000.00         5.28         190.82         7988.35         -256.19         -256.29         -48.98         435795.91         748429.52         0.00           8100.00         5.28         190.82         8087.92         -265.22         -265.33         -50.71         435786.87         748427.79         0.00           8200.00         5.28         190.82         8187.50         -274.25         -274.36         -52.44 <t< td=""><td>7300.00</td><td>5.28</td><td>190.82</td><td>7291.31</td><td>-192.96</td><td>-193.04</td><td>-36.89</td><td>435859.16</td><td>748441.61</td><td>0.00</td><td></td></t<>	7300.00	5.28	190.82	7291.31	-192.96	-193.04	-36.89	435859.16	748441.61	0.00	
7600.00         5.28         190.82         7590.04         -220.06         -220.15         -42.07         435832.05         748436.43         0.00           7700.00         5.28         190.82         7689.62         -229.09         -229.18         -43.80         435823.02         748434.70         0.00           7800.00         5.28         190.82         7789.19         -238.12         -238.22         -45.53         435813.98         748432.97         0.00           7900.00         5.28         190.82         7888.77         -247.16         -247.26         -47.25         435804.94         748431.25         0.00           8000.00         5.28         190.82         7988.35         -256.19         -256.29         -48.98         435795.91         748429.52         0.00           8100.00         5.28         190.82         8087.92         -265.22         -265.33         -50.71         435786.87         748427.79         0.00           8200.00         5.28         190.82         8187.50         -274.25         -274.36         -52.44         435777.84         748426.06         0.00           8400.00         5.28         190.82         8287.07         -283.29         -283.40         -54.16 <t< td=""><td>7400.00</td><td>5.28</td><td>190.82</td><td>7390.89</td><td>-201.99</td><td>-202.07</td><td>-38.62</td><td>435850.13</td><td>748439.88</td><td>0.00</td><td></td></t<>	7400.00	5.28	190.82	7390.89	-201.99	-202.07	-38.62	435850.13	748439.88	0.00	
7700.00         5.28         190.82         7689.62         -229.09         -229.18         -43.80         435823.02         748434.70         0.00           7800.00         5.28         190.82         7789.19         -238.12         -238.22         -45.53         435813.98         748432.97         0.00           7900.00         5.28         190.82         7888.77         -247.16         -247.26         -47.25         435804.94         748431.25         0.00           8000.00         5.28         190.82         7988.35         -256.19         -256.29         -48.98         435795.91         748429.52         0.00           8100.00         5.28         190.82         8087.92         -265.22         -265.33         -50.71         435786.87         748427.79         0.00           8200.00         5.28         190.82         8187.50         -274.25         -274.36         -52.44         435777.84         748426.06         0.00           8300.00         5.28         190.82         8287.07         -283.29         -283.40         -54.16         435768.80         748424.34         0.00           8400.00         5.28         190.82         8386.65         -292.32         -292.44         -55.89 <t< td=""><td>7500.00</td><td>5.28</td><td>190.82</td><td>7490.47</td><td>-211.03</td><td>-211.11</td><td>-40.35</td><td>435841.09</td><td>748438.15</td><td>0.00</td><td></td></t<>	7500.00	5.28	190.82	7490.47	-211.03	-211.11	-40.35	435841.09	748438.15	0.00	
7800.00         5.28         190.82         7789.19         -238.12         -238.22         -45.53         435813.98         748432.97         0.00           7900.00         5.28         190.82         7888.77         -247.16         -247.26         -47.25         435804.94         748431.25         0.00           8000.00         5.28         190.82         7988.35         -256.19         -256.29         -48.98         435795.91         748429.52         0.00           8100.00         5.28         190.82         8087.92         -265.22         -265.33         -50.71         435786.87         748427.79         0.00           8200.00         5.28         190.82         8187.50         -274.25         -274.36         -52.44         435777.84         748426.06         0.00           8300.00         5.28         190.82         8287.07         -283.29         -283.40         -54.16         435768.80         748424.34         0.00           8400.00         5.28         190.82         8386.65         -292.32         -292.44         -55.89         435759.76         748422.61         0.00           8500.00         5.28         190.82         8486.23         -301.35         -301.47         -57.62 <t< td=""><td>7600.00</td><td>5.28</td><td>190.82</td><td>7590.04</td><td>-220.06</td><td>-220.15</td><td>-42.07</td><td>435832.05</td><td>748436.43</td><td>0.00</td><td></td></t<>	7600.00	5.28	190.82	7590.04	-220.06	-220.15	-42.07	435832.05	748436.43	0.00	
7900.00         5.28         190.82         7888.77         -247.16         -247.26         -47.25         435804.94         748431.25         0.00           8000.00         5.28         190.82         7988.35         -256.19         -256.29         -48.98         435795.91         748429.52         0.00           8100.00         5.28         190.82         8087.92         -265.22         -265.33         -50.71         435786.87         748427.79         0.00           8200.00         5.28         190.82         8187.50         -274.25         -274.36         -52.44         435777.84         748426.06         0.00           8300.00         5.28         190.82         8287.07         -283.29         -283.40         -54.16         435768.80         748424.34         0.00           8400.00         5.28         190.82         8386.65         -292.32         -292.44         -55.89         435759.76         748422.61         0.00           8500.00         5.28         190.82         8486.23         -301.35         -301.47         -57.62         435750.73         748420.88         0.00	7700.00	5.28	190.82	7689.62	-229.09	-229.18	-43.80	435823.02	748434.70	0.00	
8000.00       5.28       190.82       7988.35       -256.19       -256.29       -48.98       435795.91       748429.52       0.00         8100.00       5.28       190.82       8087.92       -265.22       -265.33       -50.71       435786.87       748427.79       0.00         8200.00       5.28       190.82       8187.50       -274.25       -274.36       -52.44       435777.84       748426.06       0.00         8300.00       5.28       190.82       8287.07       -283.29       -283.40       -54.16       435768.80       748424.34       0.00         8400.00       5.28       190.82       8386.65       -292.32       -292.44       -55.89       435759.76       748422.61       0.00         8500.00       5.28       190.82       8486.23       -301.35       -301.47       -57.62       435750.73       748420.88       0.00	7800.00	5.28	190.82	7789.19	-238.12	-238.22	-45.53	435813.98	748432.97	0.00	
8100.00       5.28       190.82       8087.92       -265.22       -265.33       -50.71       435786.87       748427.79       0.00         8200.00       5.28       190.82       8187.50       -274.25       -274.36       -52.44       435777.84       748426.06       0.00         8300.00       5.28       190.82       8287.07       -283.29       -283.40       -54.16       435768.80       748424.34       0.00         8400.00       5.28       190.82       8386.65       -292.32       -292.44       -55.89       435759.76       748422.61       0.00         8500.00       5.28       190.82       8486.23       -301.35       -301.47       -57.62       435750.73       748420.88       0.00	7900.00	5.28	190.82	7888.77	-247.16	-247.26	-47.25	435804.94	748431.25	0.00	
8200.00     5.28     190.82     8187.50     -274.25     -274.36     -52.44     435777.84     748426.06     0.00       8300.00     5.28     190.82     8287.07     -283.29     -283.40     -54.16     435768.80     748424.34     0.00       8400.00     5.28     190.82     8386.65     -292.32     -292.44     -55.89     435759.76     748422.61     0.00       8500.00     5.28     190.82     8486.23     -301.35     -301.47     -57.62     435750.73     748420.88     0.00	8000.00	5.28	190.82	7988.35	-256.19	-256.2 <del>9</del>	-48.98	435795.91	748429.52	0.00	
8300.00       5.28       190.82       8287.07       -283.29       -283.40       -54.16       435768.80       748424.34       0.00         8400.00       5.28       190.82       8386.65       -292.32       -292.44       -55.89       435759.76       748422.61       0.00         8500.00       5.28       190.82       8486.23       -301.35       -301.47       -57.62       435750.73       748420.88       0.00	8100.00	5.28	190.82	8087.92	-265.22	-265.33	-50.71	435786.87	748427.79	0.00	
8400.00 5.28 190.82 8386.65 -292.32 -292.44 -55.89 435759.76 748422.61 0.00 8500.00 5.28 190.82 8486.23 -301.35 -301.47 -57.62 435750.73 748420.88 0.00	8200.00	5.28	190.82	8187.50	-274.25	-274.36	-52.44	435777.84	748426.06	0.00	
8500.00 5.28 190.82 8486.23 -301.35 -301.47 -57.62 435750.73 748420.88 0.00	8300.00	5.28	190.82	8287.07	-283.29	-283.40	-54.16	435768.80	748424.34	0.00	
	8400.00	5.28	190.82	8386.65	-292.32	-292.44	-55.89	435759.76	748422.61	0.00	
8600.00 5.28 190.82 8585.80 -310.38 -310.51 -59.34 435741.69 748419.16 0.00		5.28	190.82			-301.47					
	8600.00	5.28	190.82	8585.80	-310.38	-310.51	-59.34	435741.69	748419.16	0.00	

5D 8.3.1 (64 bit): 24 July 2018, 18:34:23 UTC-5

5D Plan Report

Interpolated (	Points: (Rela	itive to Slot ce	ntre)(TVD rel	ative to Well 1	TVD Reference	e)				
MD	Inc	Az	TVD	VS	N.Offset	E.Offset	Northing	Easting	DLS	Comment
(US ft)	5.28	(°)	(US\ft)	(US ft)	(US ft)	(US ft)	(US ft)	(US ft)	(°/100US ft)	. Down
8686.47 8700.00	5.28 5.14	190.82 190.82	8671.91 8685.38	-318.20 -319.40	-318.32 -319.53	-60.84 -61.07	435733.88 435732.67	748417.66 748417.43	0.00 1.00	Drop
8764.85	4.49	190.82	8750.00	-324.75	-324.88	-62.09	435727.32	748416.41	1.00	Avalon :
8800.00	4.14	190.82	8785.05	-327.35	-327.48	-62.59	435724.72	748415.91	1.00	
8900.00	3.14	190.82	8884.85	-333.59	-333.72	-63.78	435718.48	748414.72	1.00	
9000.00	2.14	190.82	8984.74	-338.12	-338.25	-64.65	435713.95	748413.85	1.00	
9100.00	1.14	190.82	9084.70	-340.93	-341.07	-65.18	435711.13	748413.32	1.00	
9200.00	0.14	190.82	9184.69	-342.03	-342.17	-65.39	435710.03	748413.11	1.00	
9214.33	0.00	0.00	9199.02	-342.05	-342.19	-65.40	435710.01	748413.10	1.00	Hold
9300.00	0.00	0.00	9284.69	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	
9400.00	0.00	0.00	9384.69	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	
9500.00	0.00	0.00	9484.69	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	
9600.00	0.00	0.00	9584.69	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	
9635.31	0.00	0.00	9620.00	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	1st BSC :
9700.00	0.00	0.00	9684.69	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	
9800.00	0.00	0.00	9784.69	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	
9875.31	0.00	0.00	9860.00	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	1st BSS:
9900.00	0.00	0.00	9884.69	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	
10000.00	0.00	0.00	9984.69	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	
10035.31	0.00	0.00	10020.00	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	2nd BSC :
10100.00	0.00	0.00	10084.69	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	
10111.85	0.00	0.00	10096.54	-342.05	-342.19	-65.40	435710.01	748413.10	0.00	KOP
10200.00	10.58	4.80	10184.19	-333.97	-334.10	-64.72	435718.10	748413.78	12.00	
10300.00	22.58	4.80	10279.86	-305.59	-305.73	-62.34	435746.47	748416.16	12.00	
10400.00	34.58	4.80	10367.51	-258.02	-258.14	-58.34	435794.06	748420.16	12.00	
10495.19	46.00	4.80	10440.00	-196.80	-196.91	-53.20	435855.29	748425.30	12.00	2nd BSS :
10500.00	46.58	4.80	10443.33	-193.33	-193.44	-52.91	435858.76	748425.59	12.00	
10600.00	58.58	4.80	10503.98	-114.35	-114.45	-46.27	435937.75	748432.23	12.00	
10700.00	70.58	4.80	10546.83	-24.53	-24.61	-38.73	436027.59	748439.77	12.00	
10800.00	82.58	4.80	10570.00	72.20	72.14	-30.61	436124.34	748447.89	12.00	
10861.85	90.00	4.80	10574.00	133.65	133.60	-25.44	436185.80	748453.06	12.00	Landing Pt/Turn
10900.00	90.00	4.04	10574.00	171.68	171.63	-22.51	436223.83	748455.99	2.00	
11000.00	90.00	2.04	10574.01	271.52	271.49	-17.21	436323.69	748461.29	2.00	
11100.00	90.00	0.04	10574.01	371.50	371.47	-15.40	436423.67	748463.10	2.00	
11101.85	90.00	0.00	10574.01	373.35	373.32	-15.40	436425.52	748463.10	2.00	Hold
11200.00	90.00	0.00	10574.01	471.50	471.47	-15.40	436523.67	748463.10	0.00	
11300.00	90.00	0.00	10574.01	571.50	571.47	-15.40	436623.67	748463.10	0.00	
11400.00	90.00	0.00	10574.01	671.50	671.47	-15.40	436723.67	748463.10	0.00	
11500.00	90.00	0.00	10574.01	771.50	771.47	-15.40	436823.67	748463.10	0.00	
11600.00	90.00	0.00	10574.01	871.50	871.47	-15.40	436923.67	748463.10	0.00	
11700.00	90.00	0.00	10574.01	971.50	971.47	-15.40	437023.67	748463.10	0.00	
11800.00	90.00	0.00	10574.01	1071.50	1071.47	-15.40	437123.67	748463.10	0.00	
11900.00 12000.00	90.00 90.00	0.00 0.00	10574.01 10574.01	1171.50	1171.47	-15.40	437223.67 437323.67	748463.10 748463.10	0.00	
12100.00	90.00	0.00	10574.01	1271.50 1371.50	1271.47 1371.47	-15.40 -15.40	437423.67	748463.10	0.00 0.00	
12200.00	90.00	0.00	10574.02	1471.50	1471.47	-15.40	437523.67	748463.10	0.00	
12300.00	90.00	0.00	10574.02	1571.50	1571.47	-15.40	437623.67	748463.10	0.00	
12400.00	90.00	0.00	10574.02	1671.50	1671.47	-15.40	437723.67	748463.10	0.00	
12500.00	90.00	0.00	10574.02	1771.50	1771.47	-15.40	437823.67	748463.10	0.00	
12600.00	90.00	0.00	10574.02	1871.50	1871.47	-15.40	437923.67	748463.10	0.00	
12700.00	90.00	0.00	10574.02	1971.50	1971.47	-15.40	438023.67	748463.10	0.00	
12800.00	90.00	0.00	10574.02	2071.50	2071.47	-15.40	438123.67	748463.10	0.00	
12900.00	90.00	0.00	10574.02	2171.50	2171.47	-15.40	438223.67	748463.10	0.00	
13000.00	90.00	0.00	10574.02	2271.49	2271.47	-15.40	438323.67	748463.10	0.00	
13100.00	90.00	0.00	10574.02	2371.49	2371.47	-15.40	438423.67	748463.10	0.00	
13200.00	90.00	0.00	10574.02	2471.49	2471.47	-15.40	438523.67	748463.10	0.00	
13300.00	90.00	0.00	10574.03	2571.49	2571.47	-15.40	438623.67	748463.10	0.00	
13400.00	90.00	0.00	10574.03	2671.49	2671.47	-15.40	438723.67	748463.10	0.00	

5D 8.3.1 (64 bit): 24 July 2018, 18:34:23 UTC-5

5D Plan Report

1500   160	Interpolated F	Points: (Rela	tive to Slot ce	ntre)(TVD rela	ative to Well	TVD Referenc	e)				
13500.00   90.00   0.00   10574.03   2771.49   2271.47   -15.40   43923.67   74468.10   0.00   1370.00   10574.03   2971.49   2271.47   15.40   43923.67   74468.10   0.00   1370.00   10574.03   3071.49   3271.47   15.40   43923.67   74468.10   0.00   13800.00   90.00   0.00   10574.03   3771.49   3271.47   15.40   43923.67   74468.10   0.00   14600.00   90.00   0.00   10574.03   3771.49   3271.47   15.40   43923.67   74468.10   0.00   14600.00   90.00   0.00   10574.03   3771.49   3271.47   15.40   43923.67   74468.10   0.00   14200.00   90.00   0.00   10574.03   3771.49   3271.47   15.40   43923.67   74468.10   0.00   14200.00   90.00   0.00   10574.03   3771.49   3271.47   15.40   43923.67   74468.10   0.00   14200.00   90.00   0.00   10574.03   3771.49   3271.47   15.40   43923.67   74468.10   0.00   14200.00   90.00   0.00   10574.04   3671.49   3671.47   15.40   43923.67   74468.10   0.00   14200.00   90.00   0.00   10574.04   3671.49   3671.47   15.40   43923.67   74468.10   0.00   14200.00   90.00   0.00   10574.04   3671.49   3671.47   15.40   43923.67   74468.10   0.00   14200.00   90.00   0.00   10574.04   3671.49   3671.47   15.40   43923.67   74468.10   0.00   14200.00   90.00   0.00   10574.04   3671.49   3671.47   15.40   43923.67   74468.10   0.00   14200.00   90.00   0.00   10574.04   4071.49   4071.47   15.40   44023.67   74468.10   0.00   14200.00   90.00   0.00   10574.04   4071.49   4071.47   15.40   44023.67   74468.10   0.00   15100.00   90.00   0.00   10574.04   4071.49   4071.47   15.40   44023.67   74468.10   0.00   15100.00   90.00   0.00   10574.04   4071.49   4071.47   15.40   44023.67   74468.10   0.00   15100.00   90.00   0.00   10574.04   4471.49   4471.47   15.40   44023.67   74468.10   0.00   15100.00   90.00   0.00   10574.04   4471.49   4471.47   15.40   44023.67   74468.10   0.00   15100.00   90.00   0.00   10574.04   4471.49   4471.47   15.40   44023.67   74468.10   0.00   15100.00   90.00   0.00   10574.04   4471.49   4471.47   15.40   44023.67   74468.10   0.00   15100.0	MD	Inc	Az	TVD	vs	N.Offset	E.Offset		Easting		Comment
1300.00   0.00   0.00   10574.03   2871.49   2871.47   1.5.40   439023.67   748465.10   0.00   13074.03   2871.49   2871.47   1.5.40   439023.67   748465.10   0.00   13074.03   3071.49   3071.47   1.5.40   439023.67   748465.10   0.00   14070.00   0.00   10574.03   3071.49   3071.47   1.5.40   439223.67   748465.10   0.00   14070.00   0.00   10574.03   3071.49   3071.47   1.5.40   439223.67   748465.10   0.00   14070.00   0.00   10574.03   3371.49   3371.47   1.5.40   439223.67   748465.10   0.00   14070.00   0.00   10574.03   3371.49   3371.47   1.5.40   439223.67   748465.10   0.00   14070.00   0.00   10574.03   3371.49   3371.47   1.5.40   439223.67   748465.10   0.00   14070.00   0.00   10574.03   3371.49   3371.47   1.5.40   439223.67   748465.10   0.00   14070.00   0.00   10574.04   3771.49   3771.47   1.5.40   439223.67   748465.10   0.00   14070.00   0.00   10574.04   3771.49   3771.47   1.5.40   439223.67   748465.10   0.00   14070.00   0.00   10574.04   3871.49   3871.47   1.5.40   440223.67   748465.10   0.00   14070.00   0.00   0.00   10574.04   3871.49   3871.47   1.5.40   440223.67   748465.10   0.00   14070.00   0.00   10574.04   3871.49   3871.47   1.5.40   440223.67   748465.10   0.00   14070.00   0.00   10574.04   4771.49   4771.47   1.5.40   440223.67   748465.10   0.00   15000.00   0.00   10574.04   4771.49   4771.47   1.5.40   440223.67   748465.10   0.00   15000.00   0.00   10574.04   4771.49   4771.47   1.5.40   440223.67   748465.10   0.00   151500.00   0.00   10574.04   4771.49   4771.47   1.5.40   440223.67   748465.10   0.00   151500.00   0.00   10574.04   4771.49   4771.47   1.5.40   440223.67   44865.10   0.00   151500.00   0.00   10574.04   4771.49   4771.47   1.5.40   440223.67   748465.10   0.00   151500.00   0.00   10574.04   4771.49   4771.47   1.5.40   440223.67   748465.10   0.00   151500.00   0.00   10574.04   4771.49   4771.47   1.5.40   440223.67   748465.10   0.00   151500.00   0.00   10574.04   4771.49   4771.47   1.5.40   440223.67   748465.10   0.00   151500.00   151											
13790.00   90.00   0.00   10574.03   3071.49   3071.47   15.40   43902.367   74465.10   0.00   13674.03   3071.49   3171.47   15.40   43902.367   74465.10   0.00   1400.00   90.00   0.00   10574.03   3271.49   3271.47   15.40   43902.367   74465.10   0.00   1400.00   90.00   0.00   10574.03   3271.49   3271.47   15.40   43902.367   74465.10   0.00   1400.00   90.00   0.00   10574.03   3371.49   3371.47   15.40   43902.367   74465.10   0.00   1400.00   90.00   0.00   10574.03   3371.49   3371.47   15.40   43902.367   74465.10   0.00   1400.00   90.00   0.00   10574.04   3571.49   3571.47   15.40   43902.367   74465.10   0.00   1400.00   90.00   0.00   10574.04   3571.49   3571.47   15.40   43902.367   74465.10   0.00   1400.00   90.00   0.00   10574.04   3571.49   3571.47   15.40   43902.367   74465.10   0.00   1400.00   1600.00   16074.04   4071.49   3671.47   15.40   43902.367   74465.10   0.00   1400.00   90.00   0.00   10574.04   4071.49   4071.47   15.40   44002.367   44465.10   0.00   1400.00   90.00   0.00   10574.04   4071.49   4071.47   15.40   44002.367   74466.310   0.00   1500.00   90.00   0.00   10574.04   4771.49   4271.47   15.40   44002.367   74466.310   0.00   1500.00   90.00   0.00   10574.04   4771.49   4271.47   15.40   44002.367   74466.310   0.00   1500.00   90.00   0.00   10574.04   4771.49   4771.47   15.40   44002.367   74466.310   0.00   1500.00   90.00   0.00   10574.04   4771.49   4771.47   15.40   44002.367   74466.310   0.00   15100.00   90.00   0.00   10574.04   4771.49   4771.47   15.40   44002.367   74466.310   0.00   15100.00   90.00   0.00   10574.04   4771.49   4771.47   15.40   44002.367   74466.310   0.00   15100.00   90.00   0.00   10574.04   4771.49   4771.47   15.40   44002.367   74466.310   0.00   15100.00   90.00   0.00   10574.04   4771.49   4771.47   15.40   44002.367   74466.310   0.00   15100.00   90.00   0.00   10574.04   4771.49   4771.47   15.40   44002.367   74466.310   0.00   15100.00   15574.04   4771.49   4771.47   15.40   44002.367   74466.310   0.00   151											
13900.00   90.00   0.00   10574.03   3071.49   3071.47   -15.40   439123.67   74946.31.0   0.00   10574.03   3171.49   3171.47   -15.40   439123.67   74946.31.0   0.00   10574.03   3171.49   3171.47   -15.40   439123.67   74946.31.0   0.00   10574.03   3171.49   3171.47   -15.40   439123.67   74946.31.0   0.00   10574.03   3171.49   3171.47   -15.40   439123.67   74946.31.0   0.00   10574.03   3171.49   3171.47   -15.40   439123.67   74946.31.0   0.00   10574.03   3171.49   3171.47   -15.40   439123.67   74946.31.0   0.00   10574.04   3171.49   3171.47   -15.40   439123.67   74946.31.0   0.00   10574.04   3171.49   3171.47   -15.40   439123.67   74946.31.0   0.00   10574.04   3171.49   3171.47   -15.40   439123.67   74946.31.0   0.00   10574.04   3171.49   3171.47   -15.40   439123.67   74946.31.0   0.00   10574.04   3171.49   3171.47   -15.40   439123.67   74946.31.0   0.00   10574.04   4371.49   3171.47   -15.40   439123.67   74946.31.0   0.00   10574.04   4371.49   4371.47   -15.40   440123.67   74946.31.0   0.00   10574.04   4371.49   4371.47   -15.40   440123.67   74946.31.0   0.00   10574.04   4371.49   4371.47   -15.40   440123.67   74946.31.0   0.00   15300.00   0.00   10574.04   4371.49   4371.47   -15.40   440123.67   74946.31.0   0.00   15300.00   0.00   10574.04   4371.49   4371.47   -15.40   440123.67   74946.31.0   0.00   15300.00   0.00   10574.04   4371.49   4371.47   -15.40   440123.67   74946.31.0   0.00   15300.00   0.00   10574.04   4371.49   4371.47   -15.40   440123.67   74946.31.0   0.00   15300.00   0.00   10574.04   4371.49   4371.47   -15.40   440123.67   74946.31.0   0.00   15300.00   0.00   10574.04   4371.49   4371.47   -15.40   440123.67   74946.31.0   0.00   15300.00   0.00   10574.04   4371.49   4371.47   -15.40   440123.67   74946.31.0   0.00   15300.00   0.00   10574.04   4371.49   4371.49   4371.47   -15.40   440123.67   74946.31.0   0.00   15300.00   0.00   10574.04   4371.49   4371.47   -15.40   440123.67   74946.31.0   0.00   15300.00   15300.00   15300.00   15300.00   15											
13900.00   90.00   0.00   10574.03   3171.49   3171.47   15.40   43922.67   73446.10   0.00   14100.00   90.00   0.00   10574.03   3371.49   3371.47   15.40   43923.67   73446.10   0.00   14100.00   90.00   0.00   10574.03   3371.49   3371.47   15.40   43923.67   73446.10   0.00   14300.00   90.00   0.00   10574.04   3671.49   3671.47   15.40   43923.67   73446.10   0.00   14400.00   90.00   0.00   10574.04   3671.49   3671.47   15.40   43923.67   73446.10   0.00   14400.00   90.00   0.00   10574.04   3671.49   3671.47   15.40   43923.67   73446.10   0.00   14400.00   90.00   0.00   10574.04   3671.49   3671.47   15.40   43923.67   73446.10   0.00   14400.00   90.00   0.00   10574.04   3671.49   3671.47   15.40   43923.67   73446.10   0.00   14400.00   90.00   0.00   10574.04   3671.49   3671.47   15.40   44023.67   73446.31   0.00   14400.00   90.00   0.00   10574.04   4071.49   4071.47   15.40   44023.67   73446.31   0.00   14400.00   90.00   0.00   10574.04   4071.49   4071.47   15.40   44023.67   73446.31   0.00   15590.00   0.00   10574.04   4771.49   4771.47   15.40   44023.67   73446.31   0.00   15590.00   0.00   10574.04   4771.49   4771.47   15.40   44023.67   73446.31   0.00   15590.00   0.00   10574.04   4771.49   4771.47   15.40   44023.67   73446.31   0.00   15590.00   0.00   10574.04   4771.49   4771.47   15.40   440523.67   73446.31   0.00   15590.00   0.00   10574.04   4771.49   4771.47   15.40   440523.67   73446.31   0.00   15590.00   0.00   10574.04   4771.49   4771.47   15.40   440523.67   73446.31   0.00   15590.00   0.00   10574.04   4771.49   4771.47   15.40   440523.67   73446.31   0.00   15590.00											
1400.00   90.00   0.00   10574.03   3371.49   3271.47   -15.40   43923.67   734645.10   0.00   14200.00   90.00   0.00   10574.03   3371.49   3371.47   -15.40   439523.67   73466.10   0.00   14200.00   90.00   0.00   10574.03   3371.49   3371.47   -15.40   439523.67   73466.10   0.00   14200.00   90.00   0.00   10574.04   3371.49   3371.47   -15.40   439523.67   73466.10   0.00   14200.00   90.00   0.00   10574.04   3371.49   3371.47   -15.40   439523.67   73466.10   0.00   14200.00   90.00   0.00   10574.04   3371.49   3371.47   -15.40   439523.67   73466.10   0.00   14200.00   90.00   0.00   10574.04   3371.49   3371.47   -15.40   439523.67   73466.10   0.00   14200.00   90.00   0.00   10574.04   3371.49   3371.47   -15.40   44022.67   73466.10   0.00   14200.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44022.67   73466.10   0.00   14200.00   90.00   0.00   10574.04   4371.49   4711.47   -15.40   44022.67   73466.10   0.00   15200.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44022.67   73466.10   0.00   15200.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   73466.10   0.00   15200.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   73466.10   0.00   15200.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   73466.10   0.00   15200.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   73466.10   0.00   15200.00   15200.00   0.00   15200.00   1											
1400.00   90.00   0.00   10574.03   3371.49   3371.47   -15.40   43923.67   734863.10   0.00   14200.00   90.00   0.00   10574.03   3571.49   3571.47   -15.40   43923.67   748465.10   0.00   14200.00   90.00   0.00   10574.04   3671.48   3571.47   -15.40   43923.67   748465.10   0.00   14200.00   90.00   0.00   10574.04   3871.49   3771.47   -15.40   43923.67   748465.10   0.00   14200.00   90.00   0.00   10574.04   3871.49   3771.47   -15.40   43923.67   748465.10   0.00   14200.00   90.00   0.00   10574.04   3871.49   3871.47   -15.40   43923.67   748465.10   0.00   14200.00   90.00   0.00   10574.04   4071.49   4071.47   -15.40   4023.67   748465.10   0.00   14200.00   90.00   0.00   10574.04   4071.49   4071.47   -15.40   4023.67   748465.10   0.00   14200.00   90.00   0.00   10574.04   4171.49   4171.47   -15.40   4023.67   748465.10   0.00   15200.00   90.00   0.00   10574.04   4371.49   4271.47   -15.40   44023.67   748465.10   0.00   15200.00   90.00   0.00   10574.04   4371.49   4271.47   -15.40   44023.67   748465.10   0.00   15200.00   90.00   0.00   10574.04   4371.49   4271.47   -15.40   44023.67   748465.10   0.00   15200.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   748465.10   0.00   15200.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   440623.67   748465.10   0.00   15200.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   440623.67   748465.10   0.00   15200.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   440623.67   748465.10   0.00   15200.00   90.02   0.00   10574.04   4371.49   4371.47   -15.40   440623.67   748465.10   0.00   15200.00   90.02   0.00   10574.04   4371.49   4371.47   -15.40   440623.67   748465.10   0.00   15200.00   90.22   0.00   10573.67   4771.49   4771.47   -15.40   440623.67   748465.10   0.00   15200.00   15200.00   90.22   0.00   10573.67   4771.49   4771.46   -15.40   440623.67   748465.10   0.00   15200.00   90.02   0.00   10573.67   4771.49   4771.46   -15.40   440623.67   748465.10   0.00   15200.00   15											
14200.00   90.00   0.00   10574.03   3371.49   3711.47   -15.40   43923.67   734861.10   0.00   14400.00   90.00   0.00   10574.04   3671.49   3771.47   -15.40   43923.67   74865.10   0.00   14400.00   90.00   0.00   10574.04   3771.49   3771.47   -15.40   43923.67   74865.10   0.00   14400.00   90.00   0.00   10574.04   3771.49   3771.47   -15.40   43923.67   74865.10   0.00   14400.00   90.00   0.00   10574.04   3771.49   3771.47   -15.40   43923.67   74865.10   0.00   14400.00   90.00   0.00   10574.04   3971.49   3971.47   -15.40   449023.67   74865.10   0.00   14400.00   90.00   0.00   10574.04   4171.49   4171.47   -15.40   44023.67   74865.10   0.00   14400.00   90.00   0.00   10574.04   4171.49   4171.47   -15.40   440223.67   74865.10   0.00   14590.00   90.00   0.00   10574.04   4171.49   4171.47   -15.40   440223.67   74865.10   0.00   15500.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   74865.10   0.00   15500.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   74865.10   0.00   15500.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   74865.10   0.00   15500.00   90.02   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   74865.10   0.00   15530.00   90.02   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   74865.10   0.00   15530.00   90.02   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   74865.10   0.00   15530.00   90.02   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   74865.10   0.00   15530.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   74865.10   0.00   15530.00   15540.00   15540.00   15540.00   15540.00   15540.00   15540.00   15540.00   15540.00   15540.00   15540.00   1554											
1490,00   90,00   0,00   10574,04   3671,49   3671,47   -15.40   439623,67   748463,10   0,00   16574,04   3671,49   3671,47   -15.40   439623,67   748463,10   0,00   16574,04   3771,49   3771,47   -15.40   439623,67   748463,10   0,00   16574,04   3971,49   3771,47   -15.40   439623,67   748463,10   0,00   16574,04   3971,49   3771,47   -15.40   439623,67   748463,10   0,00   16574,04   3971,49   3771,47   -15.40   440623,67   748463,10   0,00   16574,04   3971,49   4771,47   -15.40   440623,67   748463,10   0,00   15090,00   0,00   10574,04   4371,49   4771,47   -15.40   440623,67   748463,10   0,00   15090,00   0,00   10574,04   4371,49   4471,47   -15.40   440623,67   748463,10   0,00   15090,00   0,00   10574,04   4371,49   4471,47   -15.40   440623,67   748463,10   0,00   15090,00   0,00   10574,04   4371,49   4471,47   -15.40   440623,67   748463,10   0,00   15090,00   0,00   10574,04   4371,49   4471,47   -15.40   440623,67   748463,10   0,00   15316,08   0,00   0,00   10574,04   4571,49   4571,47   -15.40   440623,67   748463,10   0,00   15316,08   0,00   10574,04   45871,59   4597.55   15.40   440623,67   748463,10   0,00   15316,08   0,00   10574,04   45871,59   4597.55   15.40   440623,67   748463,10   0,00   15316,08   0,00   10574,04   45871,59   4597.55   459											
14400.00   90.00   0.00   10574.04   3571.49   3571.47   -15.40   439923.67   748463.10   0.00   14500.00   90.00   0.00   10574.04   3871.49   3871.47   -15.40   439923.67   748463.10   0.00   14500.00   90.00   0.00   10574.04   3871.49   3871.47   -15.40   440923.67   748463.10   0.00   14500.00   90.00   0.00   10574.04   4071.47   -15.40   440923.67   748463.10   0.00   14500.00   90.00   0.00   10574.04   4071.47   -15.40   440923.67   748463.10   0.00   15500.00   90.00   0.00   10574.04   4271.47   4171.47   -15.40   44023.67   748463.10   0.00   15500.00   90.00   0.00   10574.04   4271.47   4271.47   15.40   44023.67   748463.10   0.00   15500.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   15500.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   15500.00   90.00   0.00   10574.04   4571.49   4571.47   -15.40   44023.67   748463.10   0.00   15330.00   90.00   0.00   10574.04   4571.49   4571.47   -15.40   44052.67   748463.10   0.00   15330.00   90.32   0.00   10574.04   4571.49   4571.47   -15.40   44052.67   748463.10   0.00   15330.00   90.32   0.00   10573.62   4471.49   4471.47   -15.40   44023.67   748463.10   0.00   15500.00   90.32   0.00   10573.62   4471.49   4471.47   -15.40   44023.67   748463.10   0.00   15500.00   90.32   0.00   10573.62   4471.49   4471.47   -15.40   44023.65   748463.10   0.00   15500.00   90.32   0.00   10573.62   4471.49   4471.47   -15.40   44023.65   748463.10   0.00   15500.00   90.32   0.00   10573.65   4571.49   4771.49   4771.47   -15.40   44023.65   748463.10   0.00   15500.00   90.32   0.00   10573.65   5711.48   5771.45   -15.40   44123.65   748463.10   0.00   15500.00   90.32   0.00   10570.85   5711.48   5771.45   -15.40   44123.65   748463.10   0.00   15600.00   90.32   0.00   10560.85   5571.47   5471.45   -15.40   44123.65   748463.10   0.00   15600.00   90.32   0.00   10560.85   5571.47   5571.45   -15.40   44123.65   748463.10   0.00   15600.00   90.30   0.00   10566.75											
14500.00   90.00   0.00   10574.04   3771.49   3771.47   -15.40   439923.67   748463.10   0.00   14700.00   90.00   0.00   10574.04   3871.47   3771.47   -15.40   440023.67   748463.10   0.00   14700.00   90.00   0.00   10574.04   4771.49   3871.47   -15.40   440023.67   748463.10   0.00   14700.00   90.00   0.00   10574.04   4771.49   4771.47   -15.40   440023.67   748463.10   0.00   15500.00   90.00   0.00   10574.04   4771.49   4771.47   -15.40   44023.67   748463.10   0.00   15500.00   90.00   0.00   10574.04   4771.49   4771.47   -15.40   44023.67   748463.10   0.00   15500.00   90.00   0.00   10574.04   4771.49   4771.47   -15.40   44023.67   748463.10   0.00   15500.00   90.00   0.00   10574.04   4471.49   4471.47   -15.40   44052.67   748463.10   0.00   15300.00   90.00   0.00   10574.04   4571.47   4571.47   -15.40   44052.67   748463.10   0.00   15300.00   90.00   0.00   10574.04   4587.57   4587.55   -15.40   44053.77   748463.10   0.00   15300.00   90.32   0.00   10574.04   4587.57   4587.55   -15.40   44053.77   748463.10   0.00   15500.00   90.32   0.00   10573.62   4671.49   4771.46   15.40   44053.67   748463.10   0.00   15500.00   90.32   0.00   10573.62   4671.49   4771.46   15.40   44053.67   748463.10   0.00   15500.00   90.32   0.00   10573.62   4671.49   4771.46   15.40   44023.66   748463.10   0.00   15500.00   90.32   0.00   10570.85   5171.48   5971.46   15.40   44023.66   748463.10   0.00   15500.00   90.32   0.00   10570.29   5271.48   5271.46   15.40   44123.66   748463.10   0.00   15500.00   90.32   0.00   10570.29   5271.48   5271.46   15.40   44123.66   748463.10   0.00   15500.00   90.32   0.00   10570.29   5271.48   5271.46   15.40   44123.66   748463.10   0.00   16000.00   90.32   0.00   10568.65   5371.48   5371.46   15.40   44123.65   748463.10   0.00   16000.00   90.32   0.00   10568.65   5371.48   5371.46   15.40   44123.65   748463.10   0.00   16000.00   90.30   0.00   10568.65   5371.48   5371.47   5371.45   15.40   44123.65   748463.10   0.00   16000.00   90.30   0.00		•									
1460.00   90.00   0.00   10574.04   3971.49   3971.47   -15.40   43992.367   748463.10   0.00   10574.04   3971.49   3971.47   -15.40   440023.67   748463.10   0.00   1490.00   90.00   0.00   10574.04   4071.47   -15.40   44023.67   748463.10   0.00   15900.00   90.00   0.00   10574.04   4271.49   4171.47   -15.40   44023.67   748463.10   0.00   15900.00   90.00   0.00   10574.04   4271.49   4171.47   -15.40   44023.67   748463.10   0.00   15900.00   90.00   0.00   10574.04   4271.49   4371.47   -15.40   44023.67   748463.10   0.00   15900.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   15300.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   15300.00   90.00   0.00   10574.04   4571.49   4571.47   -15.40   440623.67   748463.10   0.00   15332.00   90.20   0.00   10574.04   4597.57   4597.55   -15.40   440623.67   748463.10   0.00   163332.00   90.32   0.00   10574.04   4597.57   4597.55   -15.40   440623.67   748463.10   0.00   15300.00   90.32   0.00   10573.62   4671.49   4671.47   -15.40   44073.67   748463.10   0.00   15500.00   90.32   0.00   10573.62   4671.49   4671.47   -15.40   44073.67   748463.10   0.00   15500.00   90.32   0.00   10573.62   4671.49   4671.47   -15.40   44023.65   748463.10   0.00   15500.00   90.32   0.00   10571.40   5071.48   5071.46   -15.40   441023.65   748463.10   0.00   15900.00   90.32   0.00   10571.40   5071.48   5071.46   -15.40   441023.65   748463.10   0.00   15900.00   90.32   0.00   10579.05   5271.48   5271.46   -15.40   44123.65   748463.10   0.00   15900.00   90.32   0.00   10569.18   5271.47   5371.46   -15.40   44123.65   748463.10   0.00   16000.00   90.32   0.00   10569.18   5271.47   5371.46   -15.40   44123.65   748463.10   0.00   16000.00   90.32   0.00   10569.18   5271.47   5371.45   -15.40   44123.65   748463.10   0.00   16000.00   90.32   0.00   10569.18   5371.47   5371.45   -15.40   44123.65   748463.10   0.00   16000.00   90.30   0.00   10569.18   5371.47   5371.45   -											
1470.00   90.00   0.00   10574.04   3971.47   415.40   440023.67   748463.10   0.00   1674.04   4071.49   4771.47   -15.40   440023.67   748463.10   0.00   1500.00   90.00   0.00   10574.04   4271.49   4271.47   -15.40   44023.67   748463.10   0.00   1500.00   90.00   0.00   10574.04   4271.49   4271.47   -15.40   44023.67   748463.10   0.00   1500.00   90.00   0.00   10574.04   4371.47   -15.40   44023.67   748463.10   0.00   1500.00   90.00   0.00   10574.04   4371.47   -15.40   44023.67   748463.10   0.00   1500.00   0.00   10574.04   4371.47   -15.40   44053.67   748463.10   0.00   1530.00   0.00   10574.04   4371.47   -15.40   44053.67   748463.10   0.00   1530.00   0.00   10574.04   4571.49   4471.47   -15.40   44053.67   748463.10   0.00   1630.00   10574.04   4571.49   4471.47   -15.40   440653.67   748463.10   0.00   1630.00   10574.04   4571.49   4571.47   -15.40   440653.67   748463.10   0.00   1630.00   10574.04   4571.47   -15.40   440653.67   748463.10   0.00   1530.00   90.32   0.00   10573.62   4671.44   4571.47   -15.40   440635.67   748463.10   0.00   1580.00   90.32   0.00   10573.62   4671.48   4871.46   -15.40   440823.66   748463.10   0.00   1580.00   90.32   0.00   10573.67   4771.48   4771.46   -15.40   44023.66   748463.10   0.00   1580.00   90.32   0.00   10572.51   4871.48   4871.46   -15.40   441023.66   748463.10   0.00   1580.00   90.32   0.00   10570.59   5271.48   5271.46   -15.40   44123.66   748463.10   0.00   1680.00   90.32   0.00   10569.78   5371.48   5371.46   -15.40   44123.66   748463.10   0.00   1680.00   90.32   0.00   10569.78   5371.48   5371.46   -15.40   44123.65   748463.10   0.00   16230.00   90.32   0.00   10569.78   5371.48   5371.46   -15.40   44123.65   748463.10   0.00   16230.00   90.30   0.00   10566.00   5500.35   5503.51   -15.40   44123.65   748463.10   0.00   16230.00   16230.00   16230.00   5504.65   5571.47   5571.45   -15.40   44123.65   748463.10   0.00   16230.00   16230.00   16266.00   5571.47   5571.45   -15.40   44123.65   748463.10   0.00											
14800.00   90.00   0.00   10574.04   4071.47   4171.47   -15.40   440123.67   748463.10   0.00   10574.04   4171.49   4171.47   -15.40   440223.67   748463.10   0.00   15000.00   90.00   0.00   10574.04   4271.47   -15.40   440223.67   748463.10   0.00   15000.00   90.00   0.00   10574.04   4271.47   -15.40   44023.67   748463.10   0.00   15000.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   15000.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   15316.08   90.00   0.00   10574.04   4597.49   4571.47   -15.40   440623.67   748463.10   0.00   15316.08   90.00   0.00   10574.04   4597.57   4587.55   -15.40   440623.67   748463.10   0.00   15316.00   90.02   0.00   10574.04   4597.57   4587.55   -15.40   440623.67   748463.10   0.00   15300.00   90.32   0.00   10573.62   4671.49   4671.47   -15.40   440632.67   748463.10   0.00   15500.00   90.32   0.00   10573.62   4671.49   4671.47   -15.40   44023.67   748463.10   0.00   15500.00   90.32   0.00   10572.51   4871.48   4871.46   -15.40   44023.67   748463.10   0.00   15500.00   90.32   0.00   10572.51   4871.48   4871.46   -15.40   44023.65   748463.10   0.00   15500.00   90.32   0.00   10573.58   5971.48   5971.46   -15.40   44123.66   748463.10   0.00   15600.00   90.32   0.00   10570.58   5971.48   5971.46   -15.40   44123.66   748463.10   0.00   16000.00   90.32   0.00   10576.58   5971.48   5971.46   -15.40   44123.66   748463.10   0.00   16000.00   90.32   0.00   10576.58   5971.47   5971.45   -15.40   44123.66   748463.10   0.00   16000.00   90.32   0.00   10576.58   5971.47   5971.45   -15.40   44123.65   748463.10   0.00   16000.00   90.32   0.00   10566.58   5971.47   5971.45   -15.40   44123.65   748463.10   0.00   16000.00   90.30   0.00   10566.58   5971.47   5971.45   -15.40   44123.65   748463.10   0.00   16000.00   90.30   0.00   10566.04   5971.45   5971.45   -15.40   44123.65   748463.10   0.00   16000.00   90.30   0.00   10566.05   5971.47   5971.45   -15.40   4											
1490.00   90.00   0.00   10574.04   4171.49   4171.47   -15.40   440223.67   748463.10   0.00   15000.00   90.00   0.00   10574.04   4271.49   4271.47   -15.40   44023.67   748463.10   0.00   15000.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   15000.00   90.00   0.00   10574.04   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   15000.00   90.00   0.00   10574.04   4371.49   4571.47   -15.40   44023.67   748463.10   0.00   15000.00   90.00   0.00   10574.04   4571.49   4571.47   -15.40   44023.67   748463.10   0.00   15000.00   90.00   0.00   10574.04   4571.49   4571.47   -15.40   44023.67   748463.10   0.00   15000.00   90.00   0.00   10573.62   4671.49   4671.47   -15.40   440253.67   748463.10   0.00   15000.00   90.32   0.00   10573.62   4671.49   4671.47   -15.40   440253.67   748463.10   0.00   15000.00   90.32   0.00   10573.67   4771.49   4771.46   -15.40   44023.66   748463.10   0.00   15000.00   90.32   0.00   10573.67   4971.48   4871.46   -15.40   44023.66   748463.10   0.00   15000.00   90.32   0.00   10573.65   5771.48   5771.46   -15.40   44023.65   748463.10   0.00   15000.00   90.32   0.00   10570.95   5771.48   5771.46   -15.40   44123.66   748463.10   0.00   15000.00   90.32   0.00   10570.95   5771.48   5771.46   -15.40   44123.66   748463.10   0.00   15000.00   90.32   0.00   10570.95   5771.48   5771.46   -15.40   44123.66   748463.10   0.00   15000.00   90.32   0.00   10570.95   5771.48   5771.46   -15.40   44123.66   748463.10   0.00   15000.00   90.32   0.00   10569.18   5471.47   5471.45   -15.40   44123.66   748463.10   0.00   16000.00   90.32   0.00   10569.18   5471.47   5471.45   -15.40   44123.66   748463.10   0.00   16000.00   90.30   0.00   10566.18   5571.47   5571.45   -15.40   44123.66   748463.10   0.00   16000.00   90.30   0.00   10566.61   5771.47   5771.45   -15.40   44123.65   748463.10   0.00   172.5544   16400.00   90.30   0.00   10566.01   5771.47   5771.45   -15.40   44123.65   748463.10   0.00   172.5544   1640											
1500.00   90.00   0.00   10574.04   4271.49   4271.47   -15.40   440323.67   748463.10   0.00   1571.40   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   1571.40   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   1571.40   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   1571.40   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   1571.40   4371.49   4371.47   -15.40   44023.67   748463.10   0.00   1571.40   4571.49   4571.47   -15.40   440633.67   748463.10   0.00   1571.40   4571.49   4571.47   -15.40   440633.67   748463.10   0.00   1571.40   4571.49   4571.47   -15.40   440633.67   748463.10   0.00   1571.40   4571.49   4571.47   -15.40   440633.67   748463.10   0.00   1571.40   4571.49   4571.46   -15.40   44023.66   748463.10   0.00   1571.40   4571.49   4571.46   -15.40   44023.66   748463.10   0.00   1571.40   4571.49   4571.46   -15.40   44023.66   748463.10   0.00   1571.40   4571.49   4571.46   -15.40   441023.66   748463.10   0.00   1571.40   4571.49   4571.46   -15.40   441023.66   748463.10   0.00   1571.40   1571.40   4571.49   4571.46   -15.40   441023.66   748463.10   0.00   1571.4											
15100 0											
15200.00   90.00   0.00   10574.04   4471.49   4471.47   -15.40   440523.67   748463.10   0.00   15310.00   90.00   0.00   10574.04   4571.47   -15.40   440523.67   748463.10   0.00   Hold   15312.00   90.32   0.00   10574.04   4597.57   4597.55   -15.40   440653.67   748463.10   0.00   Hold   15322.00   90.32   0.00   10574.00   4603.49   4603.47   -15.40   440655.67   748463.10   0.00   15500.00   90.32   0.00   10573.07   4771.49   4771.46   -15.40   440623.66   748463.10   0.00   15500.00   90.32   0.00   10573.07   4771.49   4771.46   -15.40   440923.66   748463.10   0.00   15500.00   90.32   0.00   10571.96   4971.48   4971.46   -15.40   440923.66   748463.10   0.00   15500.00   90.32   0.00   10571.96   4971.48   4971.46   -15.40   441023.66   748463.10   0.00   15500.00   90.32   0.00   10571.96   4971.48   4971.46   -15.40   441023.66   748463.10   0.00   15500.00   90.32   0.00   10570.85   5171.48   5071.46   -15.40   441123.66   748463.10   0.00   15500.00   90.32   0.00   10570.25   5271.48   5271.46   -15.40   441123.66   748463.10   0.00   16500.00   90.32   0.00   10570.29   5271.48   5271.46   -15.40   44123.66   748463.10   0.00   16200.00   90.32   0.00   10559.74   5371.48   5371.46   -15.40   44123.65   748463.10   0.00   16200.00   90.32   0.00   10559.76   5303.53   5503.51   -15.40   441523.65   748463.10   0.00   16200.00   90.32   0.00   10569.00   5504.49   5504.47   -15.40   441523.65   748463.10   0.00   16200.00   90.30   0.00   10569.00   5504.49   5504.47   -15.40   441523.65   748463.10   0.00   172-5504   16200.00   90.30   0.00   10569.05   5571.47   5571.45   -15.40   441523.65   748463.10   0.00   172-5504   16200.00   90.30   0.00   10569.05   5571.47   5571.45   -15.40   441523.65   748463.10   0.00   172-5504   16200.00   90.30   0.00   10566.57   5971.47   5871.45   -15.40   441523.65   748463.10   0.00   172-5504   16200.00   90.30   0.00   10566.55   5771.47   5871.45   -15.40   441523.65   748463.10   0.00   16200.00   90.30   0.00   10566.57   5971.47   5871.45   -											
15300.00   90.00   0.00   10574.04   4571.49   4571.47   -15.40   440623.67   749463.10   0.00   10574.04   4597.57   4597.55   -15.40   440653.75   748463.10   0.00   10574.04   4597.57   4597.55   -15.40   440653.75   748463.10   0.00   174.603   15400.00   90.32   0.00   10573.62   4671.49   4671.47   -15.40   440673.67   748463.10   0.00   15500.00   90.32   0.00   10573.67   4771.49   4771.46   -15.40   440623.66   748463.10   0.00   15700.00   90.32   0.00   10571.51   4871.48   4871.46   -15.40   440223.66   748463.10   0.00   15700.00   90.32   0.00   10571.51   4871.48   4871.46   -15.40   441023.66   748463.10   0.00   15800.00   90.32   0.00   10571.60   5071.48   5071.46   -15.40   441023.66   748463.10   0.00   15800.00   90.32   0.00   10570.29   5271.48   5171.46   -15.40   441223.66   748463.10   0.00   16800.00   90.32   0.00   10570.29   5271.48   5271.46   -15.40   441223.66   748463.10   0.00   16800.00   90.32   0.00   10580.74   5371.46   515.40   441223.66   748463.10   0.00   16200.00   90.32   0.00   10580.74   5371.48   5371.46   -15.40   441223.66   748463.10   0.00   16200.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   441223.65   748463.10   0.00   16200.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   441523.65   748463.10   0.00   16200.00   90.32   0.00   10569.01   5505.53   5503.51   -15.40   441523.65   748463.10   0.00   7000.00   16200.00   90.30   0.00   10568.65   5571.47   5571.45   -15.40   441523.65   748463.10   0.00   72.5504   16300.00   90.30   0.00   10566.65   5571.47   5571.45   -15.40   441523.65   748463.10   0.00   72.5504   748463.10   0.00											
15316.08   90.00   0.00   10574.04   4587.57   4587.55   -15.40   440639.75   748463.10   0.00   10574.00   4603.49   4603.47   -15.40   440655.67   748463.10   0.00   171-4603   15302.00   90.32   0.00   10573.62   4671.49   4671.47   -15.40   440623.66   748463.10   0.00   15500.00   90.32   0.00   10573.67   4771.49   4771.46   -15.40   440823.66   748463.10   0.00   15700.00   90.32   0.00   10572.51   4871.48   4871.46   -15.40   440823.66   748463.10   0.00   15700.00   90.32   0.00   10571.96   4971.48   4971.46   -15.40   441023.66   748463.10   0.00   15800.00   90.32   0.00   10571.96   4971.48   4971.46   -15.40   441023.66   748463.10   0.00   15800.00   90.32   0.00   10571.40   5071.48   5071.46   -15.40   44123.66   748463.10   0.00   15800.00   90.32   0.00   10570.29   5271.48   5271.46   -15.40   44123.66   748463.10   0.00   16800.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   44123.66   748463.10   0.00   16300.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   44123.65   748463.10   0.00   16300.00   90.32   0.00   10569.18   5471.47   5471.45   -15.40   44123.65   748463.10   0.00   16300.00   90.32   0.00   10569.18   5471.47   5471.45   -15.40   441523.65   748463.10   0.00   72.5504   748463.00   90.30   0.00   10569.01   5590.35   5590.35   -15.40   441523.65   748463.10   0.00   72.5504   748463.00   90.30   0.00   10569.01   5590.35   5590.35   -15.40   441523.65   748463.10   0.00   72.5504   748463.00   90.30   0.00   10569.65   5571.47   5571.45   -15.40   441623.65   748463.10   0.00   72.5504   748463.00   90.30   0.00   10566.65   5571.47   5571.45   -15.40   441623.65   748463.10   0.00   72.5504   748463.00   90.30   0.00   10566.75   5571.47   5571.45   -15.40   441623.65   748463.10   0.00   72.5504   748463.00   90.30   0.00   10566.70   5671.47   5671.45   -15.40   441623.65   748463.10   0.00   74.5600.00   90.30   0.00   10566.70   5671.47   5671.45   -15.40   441223.65   748463.10   0.00   74.5600.00   74.5600.00   74.5600.00   74.5600.00   74.5											
1532.00   90.32   0.00   10574.05   4603.49   4603.47   -15.40   440625.67   748463.10   0.00   74603   74800.00   7480											Hold
15400.00   90.32   0.00   10573.62   4671.49   4671.47   -15.40   440723.67   748463.10   0.00   15500.00   90.32   0.00   10573.07   4771.49   4771.46   -15.40   440923.66   748463.10   0.00   15700.00   90.32   0.00   10571.96   4971.48   4971.46   -15.40   440923.66   748463.10   0.00   15700.00   90.32   0.00   10571.96   4971.48   4971.46   -15.40   441023.66   748463.10   0.00   15900.00   90.32   0.00   10570.49   5071.48   5071.46   -15.40   441023.66   748463.10   0.00   15900.00   90.32   0.00   10570.85   5171.48   5171.46   -15.40   44123.66   748463.10   0.00   16000.00   90.32   0.00   10570.29   5271.48   5271.46   -15.40   44123.66   748463.10   0.00   16000.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   44123.66   748463.10   0.00   16000.00   90.32   0.00   10569.18   5371.48   5371.46   -15.40   44123.66   748463.10   0.00   16200.00   90.32   0.00   10569.18   5371.47   5771.45   -15.40   44155.67   748463.10   0.00   16232.05   90.32   0.00   10569.18   5371.47   5771.45   -15.40   44155.67   748463.10   0.00   16233.02   90.30   0.00   10568.65   5571.47   5571.45   -15.40   44155.67   748463.10   0.00   16300.00   90.30   0.00   10568.65   5571.47   5571.45   -15.40   44155.67   748463.10   0.00   16400.00   90.30   0.00   10566.65   5571.47   5771.45   -15.40   44123.65   748463.10   0.00   16500.00   90.30   0.00   10566.65   5571.47   5771.45   -15.40   44123.65   748463.10   0.00   16500.00   90.30   0.00   10566.52   6771.47   5771.45   -15.40   44123.65   748463.10   0.00   16600.00   90.30   0.00   10566.52   6771.47   5771.45   -15.40   44123.65   748463.10   0.00   16600.00   90.30   0.00   10566.52   6771.45   -15.40   44123.65   748463.10   0.00   16600.00   90.30   0.00   10566.05   5771.47   5771.45   -15.40   44123.65   748463.10   0.00   16600.00   90.30   0.00   10566.05   6771.45   6771.44   -15.40   44223.65   748463.10   0.00   16600.00   90.30   0.00   10566.05   6771.45   6771.44   -15.40   44223.65   748463.10   0.00   16600.00   90.30   0.00   10564.0											
15500.00   90.32   0.00   10573.07   4771.49   4771.46   -15.40   440823.66   748463.10   0.00   15050.00   90.32   0.00   10572.51   4871.48   4871.46   -15.40   440823.66   748463.10   0.00   15050.00   90.32   0.00   10571.96   5971.48   5971.46   -15.40   441023.66   748463.10   0.00   15050.00   90.32   0.00   10570.29   5271.48   5771.46   -15.40   441223.66   748463.10   0.00   15050.00   90.32   0.00   10570.29   5271.48   5771.46   -15.40   441223.66   748463.10   0.00   16000.00   90.32   0.00   10570.29   5271.48   5271.46   -15.40   441223.66   748463.10   0.00   16000.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   441223.66   748463.10   0.00   16000.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   441523.65   748463.10   0.00   16230.00   90.32   0.00   10569.01   5503.53   5503.51   -15.40   441523.65   748463.10   0.00   16230.00   90.32   0.00   10569.01   5503.53   5503.51   -15.40   441525.67   748463.10   0.00   72.5504   16300.00   90.30   0.00   10569.01   5503.53   5503.51   -15.40   441525.67   748463.10   0.00   72.5504   16300.00   90.30   0.00   10569.01   5504.49   5504.47   -15.40   441525.67   748463.10   0.00   72.5504   16300.00   90.30   0.00   10568.63   5571.47   5771.45   -15.40   441523.65   748463.10   0.00   72.5504   72.500   72.50											11-4003
15600.00   90.32   0.00   10572.51   4871.48   4871.46   -15.40   440923.66   748463.10   0.00   1570.00   90.32   0.00   10571.96   4971.48   4971.46   -15.40   441023.66   748463.10   0.00   15900.00   90.32   0.00   10570.85   5171.48   5171.46   -115.40   441123.66   748463.10   0.00   16000.00   90.32   0.00   10570.85   5171.48   5171.46   -115.40   441223.66   748463.10   0.00   16000.00   90.32   0.00   10570.95   5271.48   5271.46   -15.40   441223.66   748463.10   0.00   16000.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   441223.66   748463.10   0.00   16200.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   441523.66   748463.10   0.00   16200.00   90.32   0.00   10569.18   5471.47   5471.45   -15.40   441523.66   748463.10   0.00   16233.02   90.32   0.00   10569.01   5503.53   5503.51   -15.40   441555.71   748463.10   0.00   16233.02   90.30   0.00   10569.00   5503.53   5503.51   -15.40   441525.67   748463.10   0.00   16300.00   90.30   0.00   10568.65   5571.47   5571.45   -15.40   441523.65   748463.10   0.00   16400.00   90.30   0.00   10568.65   5571.47   5571.45   -15.40   441623.65   748463.10   0.00   16500.00   90.30   0.00   10567.61   5771.47   5771.45   -15.40   441623.65   748463.10   0.00   16500.00   90.30   0.00   10567.61   5771.47   5771.45   -15.40   441623.65   748463.10   0.00   16500.00   90.30   0.00   10567.61   5771.47   5771.45   -15.40   441223.65   748463.10   0.00   16600.00   90.30   0.00   10566.04   6071.46   6071.45   -15.40   441223.65   748463.10   0.00   16600.00   90.30   0.00   10566.57   5971.47   5971.45   -15.40   441223.65   748463.10   0.00   16600.00   90.30   0.00   10566.57   5971.47   5771.45   -15.40   44223.64   748463.10   0.00   17000.00   90.30   0.00   10566.52   6171.46   6171.44   -15.40   44223.64   748463.10   0.00   17000.00   90.30   0.00   10566.04   6071.46   6071.45   -15.40   44223.64   748463.10   0.00   17000.00   90.33   0.00   10564.04   6071.46   6071.45   -15.40   44223.64   748463.10   0.00   17000.00											
15700.00 90.32 0.00 10571.96 4971.48 4971.46 -15.40 441023.66 748463.10 0.00   15800.00 90.32 0.00 10570.45 5171.48 5071.46 -15.40 441123.66 748463.10 0.00   16000.00 90.32 0.00 10570.95 5271.48 5271.46 -15.40 441233.66 748463.10 0.00   16100.00 90.32 0.00 10550.9 5271.48 5271.46 -15.40 44123.66 748463.10 0.00   16200.00 90.32 0.00 10569.74 5371.48 5271.46 -15.40 44123.66 748463.10 0.00   16200.00 90.32 0.00 10569.74 5371.48 5371.46 -15.40 44123.65 748463.10 0.00   16200.00 90.32 0.00 10569.10 5503.53 5503.51 -15.40 441555.71 748463.10 0.00   16233.02 90.30 0.00 10569.00 5504.49 5504.47 -15.40 441555.71 748463.10 0.00   16300.00 90.30 0.00 10569.00 5504.49 5504.47 -15.40 441623.65 748463.10 0.00   16400.00 90.30 0.00 10566.65 5571.47 5771.45 -15.40 441623.65 748463.10 0.00   16500.00 90.30 0.00 10566.65 5571.47 5771.45 -15.40 441623.65 748463.10 0.00   16500.00 90.30 0.00 10566.71 5771.47 5771.45 -15.40 44123.65 748463.10 0.00   16500.00 90.30 0.00 10566.71 5771.47 5771.45 -15.40 44123.65 748463.10 0.00   16600.00 90.30 0.00 10566.50 5871.47 5871.45 -15.40 44123.65 748463.10 0.00   16600.00 90.30 0.00 10566.51 5771.47 5771.45 -15.40 44123.65 748463.10 0.00   16600.00 90.30 0.00 10566.52 6171.46 6071.45 -15.40 44123.65 748463.10 0.00   16600.00 90.30 0.00 10566.52 6171.46 6071.45 -15.40 44223.65 748463.10 0.00   17000.00 90.30 0.00 10566.40 6071.46 6071.45 -15.40 44223.65 748463.10 0.00   17190.00 90.30 0.00 10564.86 6371.46 6271.44 -15.40 44223.64 748463.10 0.00   17190.00 90.30 0.00 10564.80 6371.46 6271.44 -15.40 44223.64 748463.10 0.00   17190.00 90.33 0.00 10564.80 6371.46 6271.44 -15.40 44223.64 748463.10 0.00   17190.00 90.33 0.00 10564.80 6371.46 6271.44 -15.40 44223.64 748463.10 0.00   17190.00 90.33 0.00 10564.80 6671.45 6671.44 -15.40 44223.64 748463.10 0.00   17190.00 90.33 0.00 10564.80 6671.45 6671.44 -15.40 44223.64 748463.10 0.00   17190.00 90.33 0.00 10564.80 6671.45 6671.44 -15.40 44223.64 748463.10 0.00   17190.00 90.33 0.00 10566.55 6871.45 6671.44 -15.40 44223.64 748463.10 0.00   17190.00 90											
15800.00   90.32   0.00   10571.40   5071.48   5071.46   -15.40   441123.66   748463.10   0.00   10500.00   90.32   0.00   10570.29   5271.48   5271.46   -15.40   44123.66   748463.10   0.00   16100.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   44123.66   748463.10   0.00   16100.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   44123.65   748463.10   0.00   16200.00   90.32   0.00   10569.18   5471.47   5471.45   -15.40   441523.65   748463.10   0.00   16230.00   90.32   0.00   10569.01   5503.53   5503.51   -15.40   441556.67   748463.10   0.00   16230.00   90.30   0.00   10568.65   5571.47   5571.45   -15.40   441556.67   748463.10   0.00   72-5504   16300.00   90.30   0.00   10568.65   5571.47   5571.45   -15.40   441523.65   748463.10   0.00   72-5504   16400.00   90.30   0.00   10568.13   5671.47   5771.45   -15.40   441623.65   748463.10   0.00   72-5504   16500.00   90.30   0.00   10566.65   5571.47   5771.45   -15.40   441623.65   748463.10   0.00   16500.00   90.30   0.00   10567.61   5771.47   5771.45   -15.40   441623.65   748463.10   0.00   16600.00   90.30   0.00   10566.57   5971.47   5971.45   -15.40   441623.65   748463.10   0.00   16600.00   90.30   0.00   10566.57   5971.47   5971.45   -15.40   44123.65   748463.10   0.00   16600.00   90.30   0.00   10566.57   5971.47   5971.45   -15.40   44123.65   748463.10   0.00   16000.00   90.30   0.00   10566.50   6271.46   6671.45   -15.40   44223.64   748463.10   0.00   17000.00   90.30   0.00   10566.48   6371.46   6371.44   -15.40   44223.64   748463.10   0.00   17000.00   90.30   0.00   10564.08   6371.46   6371.44   -15.40   44223.64   748463.10   0.00   17000.00   90.30   0.00   10564.01   6461.90   6461.88   15.40   44223.64   748463.10   0.00   17000.00   90.33   0.00   10564.01   6461.90   6461.88   15.40   44223.64   748463.10   0.00   17000.00   90.33   0.00   10564.01   6461.90   6461.88   15.40   44223.64   748463.10   0.00   17000.00   90.33   0.00   10566.55   6871.45   6671.44   -15.40   44223.64   748463.10											
15900.00 90.32 0.00 10570.85 5171.48 5171.46 -15.40 441223.66 748463.10 0.00   16000.00 90.32 0.00 10569.74 5371.48 5271.46 -15.40 441223.66 748463.10 0.00   16200.00 90.32 0.00 10569.74 5371.48 5271.46 -15.40 44123.66 748463.10 0.00   16200.00 90.32 0.00 10569.01 5503.53 503.51 -15.40 441523.65 748463.10 0.00   16232.05 90.30 0.00 10569.01 5503.53 503.51 -15.40 441555.71 748463.10 0.00   16233.02 90.30 0.00 10569.01 5504.49 5504.47 -15.40 441523.65 748463.10 0.00   16400.00 90.30 0.00 10568.13 5671.47 5571.45 -15.40 441523.65 748463.10 0.00   16500.00 90.30 0.00 10566.13 5671.47 5671.45 -15.40 441523.65 748463.10 0.00   16600.00 90.30 0.00 10566.15 5571.47 5771.45 -15.40 441523.65 748463.10 0.00   16600.00 90.30 0.00 10566.57 5771.47 5771.45 -15.40 44123.65 748463.10 0.00   16600.00 90.30 0.00 10566.57 5971.47 5771.45 -15.40 44123.65 748463.10 0.00   16600.00 90.30 0.00 10566.64 6071.45 6071.45 -15.40 441223.65 748463.10 0.00   16800.00 90.30 0.00 10566.04 6071.46 6071.45 -15.40 442123.65 748463.10 0.00   16900.00 90.30 0.00 10566.04 6071.46 6071.45 -15.40 442123.65 748463.10 0.00   17000.00 90.30 0.00 10566.04 6071.46 6071.45 -15.40 442123.65 748463.10 0.00   17000.00 90.30 0.00 10566.04 6071.46 6071.45 -15.40 442123.65 748463.10 0.00   17000.00 90.30 0.00 10566.04 6071.46 6071.45 -15.40 442123.65 748463.10 0.00   17100.00 90.30 0.00 10566.04 6461.90 6461.88 -15.40 44223.64 748463.10 0.00   17100.00 90.30 0.00 10564.01 6461.90 6461.88 -15.40 44223.64 748463.10 0.00   17190.00 90.33 0.00 10563.38 6571.46 6671.44 -15.40 44223.64 748463.10 0.00   17190.00 90.33 0.00 10566.05 6671.45 6671.44 -15.40 44223.64 748463.10 0.00   17100.00 90.33 0.00 10563.38 6571.46 6671.45 -15.40 44223.64 748463.10 0.00   17100.00 90.33 0.00 10565.20 6671.45 6671.44 -15.40 44223.64 748463.10 0.00   17100.00 90.33 0.00 10565.07 671.45 6771.44 -15.40 44223.64 748463.10 0.00   17100.00 90.33 0.00 10565.07 671.45 6771.44 -15.40 44223.63 748463.10 0.00   17100.00 90.33 0.00 10565.07 671.45 6771.44 -15.40 44223.64 748463.10 0.00   17100.00											
16000.00   90.32   0.00   10570.29   5271.48   5271.46   -15.40   441323.66   748463.10   0.00   16100.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   441423.65   748463.10   0.00   16200.00   90.32   0.00   10569.18   5471.47   5471.45   -15.40   441523.65   748463.10   0.00   0.00   16233.02   90.30   0.00   10569.00   5504.49   5504.47   -15.40   441555.71   748463.10   0.00   0.00   16233.02   90.30   0.00   10569.00   5504.49   5504.47   -15.40   441556.67   748463.10   0.00   0.00   16400.00   90.30   0.00   10568.65   5571.47   5571.45   -15.40   441623.65   748463.10   0.00   16500.00   90.30   0.00   10567.61   5771.47   5771.45   -15.40   441723.65   748463.10   0.00   16500.00   90.30   0.00   10567.61   5771.47   5771.45   -15.40   441923.65   748463.10   0.00   16600.00   90.30   0.00   10567.09   5871.47   5871.45   -15.40   441923.65   748463.10   0.00   16600.00   90.30   0.00   10566.57   5971.47   5971.45   -15.40   441923.65   748463.10   0.00   16600.00   90.30   0.00   10566.57   5971.47   5971.45   -15.40   442023.65   748463.10   0.00   16600.00   90.30   0.00   10566.57   5971.47   5971.45   -15.40   442023.65   748463.10   0.00   16600.00   90.30   0.00   10566.04   6071.46   6071.45   -15.40   44223.65   748463.10   0.00   17000.00   90.30   0.00   10565.00   6271.46   6271.44   -15.40   44223.64   748463.10   0.00   17100.00   90.30   0.00   10564.48   6371.46   6371.44   -15.40   44223.64   748463.10   0.00   17100.00   90.30   0.00   10564.06   6461.89   6463.47   -15.40   44223.64   748463.10   0.00   17100.00   90.33   0.00   10564.06   6461.89   6463.47   -15.40   44223.64   748463.10   0.00   17100.00   90.33   0.00   10563.95   6471.46   6471.44   -15.40   44223.64   748463.10   0.00   17100.00   90.33   0.00   10563.95   6471.46   6471.44   -15.40   44223.64   748463.10   0.00   17100.00   90.33   0.00   10563.95   6471.45   6671.44   -15.40   44223.64   748463.10   0.00   17100.00   90.33   0.00   10563.06   6671.45   6671.44   -15.40   44223.64   748463.10   0.											
16100.00   90.32   0.00   10569.74   5371.48   5371.46   -15.40   441423.66   748463.10   0.00   16200.00   90.32   0.00   10569.18   5471.47   5471.45   -15.40   441523.65   748463.10   0.00   16232.05   90.32   0.00   10569.01   5503.53   5503.51   -15.40   441555.71   748463.10   0.00   172504   16300.00   90.30   0.00   10568.65   5571.47   5571.45   -15.40   441556.67   748463.10   0.00   16400.00   90.30   0.00   10568.65   5571.47   5571.45   -15.40   441523.65   748463.10   0.00   16400.00   90.30   0.00   10567.61   5771.47   5771.45   -15.40   441623.65   748463.10   0.00   16600.00   90.30   0.00   10567.61   5771.47   5771.45   -15.40   441623.65   748463.10   0.00   16600.00   90.30   0.00   10567.09   5871.47   5871.45   -15.40   441623.65   748463.10   0.00   16600.00   90.30   0.00   10566.04   6071.45   -15.40   44123.65   748463.10   0.00   16800.00   90.30   0.00   10566.04   6071.46   6071.45   -15.40   44223.65   748463.10   0.00   16800.00   90.30   0.00   10565.52   6171.46   6171.44   -15.40   44223.64   748463.10   0.00   17000.00   90.30   0.00   10565.00   6271.46   6271.44   -15.40   44223.64   748463.10   0.00   17100.00   90.30   0.00   10564.00   6461.90   6461.88   -15.40   44223.64   748463.10   0.00   17190.44   90.30   0.00   10564.00   6463.49   6463.47   -15.40   44223.64   748463.10   0.00   17190.40   90.33   0.00   10564.00   6461.90   6461.88   -15.40   44223.64   748463.10   0.00   17190.00   90.33   0.00   10563.25   6471.46   6471.44   -15.40   44223.64   748463.10   0.00   17300.00   90.33   0.00   10563.25   6471.46   6471.44   -15.40   44223.64   748463.10   0.00   17300.00   90.33   0.00   10563.25   6471.46   6471.44   -15.40   44223.64   748463.10   0.00   17300.00   90.33   0.00   10563.25   6471.46   6471.44   -15.40   44223.64   748463.10   0.00   17300.00   90.33   0.00   10563.25   6471.45   6671.44   -15.40   44223.64   748463.10   0.00   17300.00   90.33   0.00   10563.25   6471.45   6671.44   -15.40   44223.64   748463.10   0.00   17300.00   90.33   0.											
16200.00   90.32   0.00   10569.18   5471.47   5471.45   -15.40   441523.65   748463.10   0.00   10569.01   5503.53   5503.51   -15.40   441555.71   748463.10   0.00   10569.01   10569.01   5503.53   5503.51   -15.40   441555.71   748463.10   0.00   10569.01   10569.00   5504.49   5504.47   -15.40   441556.67   748463.10   0.00   10569.01   10569.0											
16232.05   90.32   0.00   10569.01   5503.53   5503.51   -15.40   441555.71   748463.10   0.00   Drop   16233.02   90.30   0.00   10569.00   5504.49   5504.47   -15.40   441556.67   748463.10   0.00   T2-5504   16300.00   90.30   0.00   10568.65   5571.47   5571.45   -15.40   441623.65   748463.10   0.00   16500.00   90.30   0.00   10566.51   5571.47   5771.45   -15.40   441623.65   748463.10   0.00   16500.00   90.30   0.00   10567.61   5771.47   5771.45   -15.40   441623.65   748463.10   0.00   16600.00   90.30   0.00   10567.09   5871.47   5771.45   -15.40   441623.65   748463.10   0.00   16700.00   90.30   0.00   10566.57   5971.47   5771.45   -15.40   441623.65   748463.10   0.00   16700.00   90.30   0.00   10566.57   5971.47   5971.45   -15.40   441623.65   748463.10   0.00   16900.00   90.30   0.00   10566.57   5971.47   5971.45   -15.40   442023.65   748463.10   0.00   16900.00   90.30   0.00   10566.52   6171.46   6171.44   -15.40   442123.65   748463.10   0.00   17100.00   90.30   0.00   10565.50   6271.46   6271.44   -15.40   44223.64   748463.10   0.00   17100.00   90.30   0.00   10564.48   6371.46   6371.44   -15.40   44223.64   748463.10   0.00   17100.00   90.33   0.00   10564.01   6461.90   6461.88   -15.40   442514.08   748463.10   0.00   17100.00   90.33   0.00   10564.00   6463.49   6463.47   -15.40   44251.67   748463.10   0.00   17100.00   90.33   0.00   10563.38   6571.46   6471.44   -15.40   442523.64   748463.10   0.00   17400.00   90.33   0.00   10562.20   6671.45   6671.44   -15.40   44263.64   748463.10   0.00   17400.00   90.33   0.00   10562.20   6671.45   6671.44   -15.40   44263.64   748463.10   0.00   17400.00   90.33   0.00   10562.20   6771.45   6671.44   -15.40   44263.64   748463.10   0.00   17400.00   90.33   0.00   10561.65   6871.45   6871.43   -15.40   44263.64   748463.10   0.00   17400.00   90.33   0.00   10561.65   6871.45   6871.43   -15.40   44283.63   748463.10   0.00   17400.00   90.33   0.00   10561.65   6871.45   6871.43   -15.40   44283.63   748463.10   0.00											
16233.02   90.30   0.00   10569.00   5504.49   5504.47   -15.40   441556.67   748463.10   0.00   T2-5504   16300.00   90.30   0.00   10568.65   5571.47   5571.45   -15.40   441623.65   748463.10   0.00   16400.00   90.30   0.00   10567.61   5771.47   5771.45   -15.40   441623.65   748463.10   0.00   16600.00   90.30   0.00   10567.69   5871.47   5871.45   -15.40   441923.65   748463.10   0.00   16700.00   90.30   0.00   10566.57   5971.47   5971.45   -15.40   441923.65   748463.10   0.00   16700.00   90.30   0.00   10566.57   5971.47   5971.45   -15.40   44203.65   748463.10   0.00   16700.00   90.30   0.00   10566.04   6071.46   6071.45   -15.40   44223.65   748463.10   0.00   16900.00   90.30   0.00   10565.00   6271.46   6071.45   -15.40   44223.65   748463.10   0.00   17000.00   90.30   0.00   10565.00   6271.46   6271.44   -15.40   44223.64   748463.10   0.00   17100.00   90.30   0.00   10564.48   6371.46   6371.44   -15.40   44223.64   748463.10   0.00   17190.44   90.30   0.00   10564.01   6461.90   6461.88   -15.40   44251.68   748463.10   0.00   8 uild   17192.03   90.33   0.00   10563.95   6471.46   6471.44   -15.40   44251.67   748463.10   0.00   17300.00   90.33   0.00   10563.95   6471.46   6471.44   -15.40   44251.67   748463.10   0.00   17400.00   90.33   0.00   10563.95   6471.46   6471.44   -15.40   44253.64   748463.10   0.00   17400.00   90.33   0.00   10563.95   6471.46   6471.44   -15.40   44253.64   748463.10   0.00   17500.00   90.33   0.00   10562.20   6771.45   6771.44   -15.40   44263.64   748463.10   0.00   17500.00   90.33   0.00   10561.07   6971.45   6771.44   -15.40   44263.64   748463.10   0.00   17500.00   90.33   0.00   10561.07   6971.45   6771.44   -15.40   44263.64   748463.10   0.00   17500.00   90.33   0.00   10561.07   6971.45   6771.44   -15.40   44263.64   748463.10   0.00   17500.00   90.33   0.00   10561.07   6971.45   6771.44   -15.40   44263.64   748463.10   0.00   17500.00   90.33   0.00   10561.07   6971.45   6771.44   -15.40   44323.63   748463.10   0.00   1750											Drop
16300.00   90.30   0.00   10568.65   5571.47   5571.45   -15.40   441623.65   748463.10   0.00   16400.00   90.30   0.00   10568.13   5671.47   5671.45   -15.40   441723.65   748463.10   0.00   16500.00   90.30   0.00   10567.61   5771.47   5771.45   -15.40   441823.65   748463.10   0.00   16600.00   90.30   0.00   10566.57   5971.47   5871.45   -15.40   441923.65   748463.10   0.00   16600.00   90.30   0.00   10566.57   5971.47   5971.45   -15.40   442023.65   748463.10   0.00   16600.00   90.30   0.00   10566.04   6071.46   6071.45   -15.40   442023.65   748463.10   0.00   16900.00   90.30   0.00   10565.52   6171.46   6171.44   -15.40   44223.65   748463.10   0.00   17000.00   90.30   0.00   10565.00   6271.46   6271.44   -15.40   44223.64   748463.10   0.00   17100.00   90.30   0.00   10564.01   6461.90   6461.88   -15.40   44223.64   748463.10   0.00   17190.04   90.30   0.00   10564.01   6461.90   6461.88   -15.40   442514.08   748463.10   0.00   17300.00   90.33   0.00   10563.38   6571.46   6471.44   -15.40   44253.64   748463.10   0.00   17300.00   90.33   0.00   10563.38   6571.46   6471.44   -15.40   44253.64   748463.10   0.00   17400.00   90.33   0.00   10563.38   6571.46   6571.44   -15.40   442523.64   748463.10   0.00   17400.00   90.33   0.00   10563.38   6571.46   6571.44   -15.40   44253.64   748463.10   0.00   17500.00   90.33   0.00   10562.22   6771.45   6771.44   -15.40   442623.64   748463.10   0.00   17500.00   90.33   0.00   10562.22   6771.45   6771.44   -15.40   442623.64   748463.10   0.00   17500.00   90.33   0.00   10560.49   7071.45   7071.43   -15.40   442623.63   748463.10   0.00   17600.00   90.33   0.00   10560.49   7071.45   7071.43   -15.40   44323.63   748463.10   0.00   17600.00   90.33   0.00   10560.49   7071.45   7071.43   -15.40   44323.63   748463.10   0.00   17600.00   90.33   0.00   10560.49   7071.45   7071.43   -15.40   44323.63   748463.10   0.00   17600.00   90.33   0.00   10560.49   7071.45   7071.43   -15.40   44323.63   748463.10   0.00   17600.00   90.33											
16400.00         90.30         0.00         10568.13         5671.47         5671.45         -15.40         441723.65         748463.10         0.00           16500.00         90.30         0.00         10567.61         5771.47         5771.45         -15.40         441823.65         748463.10         0.00           16600.00         90.30         0.00         10566.75         5971.47         5971.45         -15.40         441923.65         748463.10         0.00           16800.00         90.30         0.00         10566.57         5971.47         5971.45         -15.40         44223.65         748463.10         0.00           16900.00         90.30         0.00         10565.52         6171.46         6071.45         -15.40         442223.64         748463.10         0.00           1700.00         90.30         0.00         10565.00         6271.46         6271.44         -15.40         442223.64         748463.10         0.00           17100.00         90.30         0.00         10564.48         6371.46         6371.44         -15.40         44223.64         748463.10         0.00           17190.44         90.30         0.00         10564.01         6461.89         -15.40         44223.64											
16500.00         90.30         0.00         10567.61         5771.47         5771.45         -15.40         441823.65         748463.10         0.00           16600.00         90.30         0.00         10567.09         5871.47         5871.45         -15.40         441923.65         748463.10         0.00           16700.00         90.30         0.00         10566.57         5971.47         5971.45         -15.40         442023.65         748463.10         0.00           16900.00         90.30         0.00         10565.52         6171.46         6071.45         -15.40         442223.65         748463.10         0.00           17000.00         90.30         0.00         10565.52         6171.46         6171.44         -15.40         442223.64         748463.10         0.00           17100.00         90.30         0.00         10564.48         6371.44         -15.40         44223.64         748463.10         0.00           17190.44         90.30         0.00         10564.01         6461.90         6461.88         -15.40         442514.08         748463.10         0.00           17200.00         90.33         0.00         10563.95         6471.46         6471.44         -15.40         442514.08											
16600.00         90.30         0.00         10567.09         5871.47         5871.45         -15.40         441923.65         748463.10         0.00           16700.00         90.30         0.00         10566.57         5971.47         5971.45         -15.40         442023.65         748463.10         0.00           16800.00         90.30         0.00         10566.04         6071.46         6071.45         -15.40         442123.65         748463.10         0.00           16900.00         90.30         0.00         10565.52         6171.46         6171.44         -15.40         442123.64         748463.10         0.00           17000.00         90.30         0.00         10565.00         6271.46         6271.44         -15.40         442223.64         748463.10         0.00           17100.00         90.30         0.00         10564.48         6371.46         6371.44         -15.40         44251.68         748463.10         0.00           17190.44         90.30         0.00         10564.01         6461.89         6463.47         -15.40         44251.08         748463.10         0.00         T3-6463           17200.00         90.33         0.00         10563.95         6471.46         6471.44											
16700.00         90.30         0.00         10566.57         5971.47         5971.45         -15.40         442023.65         748463.10         0.00           16800.00         90.30         0.00         10566.04         6071.46         6071.45         -15.40         442123.65         748463.10         0.00           16900.00         90.30         0.00         10565.52         6171.46         6171.44         -15.40         442223.64         748463.10         0.00           1700.00         90.30         0.00         10565.50         6271.46         6271.44         -15.40         44223.64         748463.10         0.00           17100.00         90.30         0.00         10564.48         6371.46         6371.44         -15.40         44223.64         748463.10         0.00           17190.44         90.30         0.00         10564.01         6461.90         6461.88         -15.40         442514.08         748463.10         0.00         173663           17200.00         90.33         0.00         10563.95         6471.46         6471.44         -15.40         44251.08         748463.10         0.00           17300.00         90.33         0.00         10562.80         6671.45         6671.44											
16800.00         90.30         0.00         10566.04         6071.46         6071.45         -15.40         442123.65         748463.10         0.00           16900.00         90.30         0.00         10565.52         6171.46         6171.44         -15.40         442223.64         748463.10         0.00           17000.00         90.30         0.00         10565.00         6271.46         6271.44         -15.40         44233.64         748463.10         0.00           17100.00         90.30         0.00         10564.48         6371.46         6371.44         -15.40         44223.64         748463.10         0.00           17190.44         90.30         0.00         10564.01         6461.90         6461.88         -15.40         442514.08         748463.10         0.00         Build           17192.03         90.33         0.00         10563.95         6471.46         6471.44         -15.40         442516.08         748463.10         0.00           17300.00         90.33         0.00         10563.38         6571.46         6571.44         -15.40         442523.64         748463.10         0.00           17400.00         90.33         0.00         10562.80         6571.45         6671.44			0.00								
16900.00         90.30         0.00         10565.52         6171.46         6171.44         -15.40         442223.64         748463.10         0.00           17000.00         90.30         0.00         10565.00         6271.46         6271.44         -15.40         442323.64         748463.10         0.00           17100.00         90.30         0.00         10564.48         6371.46         6371.44         -15.40         442423.64         748463.10         0.00           17190.44         90.30         0.00         10564.01         6461.90         6461.88         -15.40         442514.08         748463.10         0.00         Build           17192.03         90.33         0.00         10564.00         6463.49         6463.47         -15.40         442515.67         748463.10         0.00         T3-6463           17200.00         90.33         0.00         10563.38         6571.46         6571.44         -15.40         442623.64         748463.10         0.00           17300.00         90.33         0.00         10562.80         6671.45         6671.44         -15.40         442623.64         748463.10         0.00           17500.00         90.33         0.00         10561.65         6871.45	16800.00	90.30	0.00	10566.04	6071.46	6071.45	-15.40	442123.65	748463.10		
17100.00         90.30         0.00         10564.48         6371.46         6371.44         -15.40         442423.64         748463.10         0.00         17190.44         90.30         0.00         10564.01         6461.90         6461.88         -15.40         44251.68         748463.10         0.00         Build           17192.03         90.33         0.00         10564.00         6463.49         6463.47         -15.40         44251.67         748463.10         2.00         T3-6463           17200.00         90.33         0.00         10563.95         6471.46         6471.44         -15.40         442523.64         748463.10         0.00           17300.00         90.33         0.00         10563.38         6571.46         6571.44         -15.40         442623.64         748463.10         0.00           17400.00         90.33         0.00         10562.80         6671.45         6671.44         -15.40         442823.64         748463.10         0.00           17500.00         90.33         0.00         10562.22         6771.45         6671.44         -15.40         442823.64         748463.10         0.00           17700.00         90.33         0.00         10561.65         6871.45         6871.43	16900.00	90.30	0.00	10565.52	6171.46	6171.44	-15.40	442223.64	748463.10	0.00	
17100.00         90.30         0.00         10564.48         6371.46         6371.44         -15.40         442423.64         748463.10         0.00         17190.44         90.30         0.00         10564.01         6461.90         6461.88         -15.40         44251.68         748463.10         0.00         Build           17192.03         90.33         0.00         10564.00         6463.49         6463.47         -15.40         44251.67         748463.10         2.00         T3-6463           17200.00         90.33         0.00         10563.95         6471.46         6471.44         -15.40         442523.64         748463.10         0.00           17300.00         90.33         0.00         10563.38         6571.46         6571.44         -15.40         442623.64         748463.10         0.00           17400.00         90.33         0.00         10562.80         6671.45         6671.44         -15.40         442723.64         748463.10         0.00           17500.00         90.33         0.00         10562.22         6771.45         6671.44         -15.40         442823.64         748463.10         0.00           17700.00         90.33         0.00         10561.65         6871.45         6871.43	17000.00	90.30	0.00	10565.00	6271.46	6271.44	-15.40	442323.64	748463.10	0.00	
17192.03         90.33         0.00         10564.00         6463.49         6463.47         -15.40         442515.67         748463.10         2.00         T3-6463           17200.00         90.33         0.00         10563.95         6471.46         6471.44         -15.40         442523.64         748463.10         0.00           17300.00         90.33         0.00         10563.38         6571.46         6571.44         -15.40         442623.64         748463.10         0.00           17400.00         90.33         0.00         10562.22         6771.45         6671.44         -15.40         442723.64         748463.10         0.00           17500.00         90.33         0.00         10561.65         6871.45         6671.44         -15.40         442823.64         748463.10         0.00           17600.00         90.33         0.00         10561.65         6871.45         6671.43         -15.40         442923.63         748463.10         0.00           17700.00         90.33         0.00         10561.07         6971.45         6971.43         -15.40         443023.63         748463.10         0.00           17900.00         90.33         0.00         10560.49         7071.45         7071.43	17100.00	90.30	0.00	10564.48					748463.10	0.00	
17200.00         90.33         0.00         10563.95         6471.46         6471.44         -15.40         442523.64         748463.10         0.00           17300.00         90.33         0.00         10563.38         6571.46         6571.44         -15.40         442623.64         748463.10         0.00           17400.00         90.33         0.00         10562.80         6671.45         6671.44         -15.40         442723.64         748463.10         0.00           17500.00         90.33         0.00         10562.22         6771.45         6771.44         -15.40         442823.64         748463.10         0.00           17600.00         90.33         0.00         10561.65         6871.45         6871.43         -15.40         442923.63         748463.10         0.00           17700.00         90.33         0.00         10561.07         6971.45         6971.43         -15.40         443023.63         748463.10         0.00           17800.00         90.33         0.00         10560.49         7071.45         7071.43         -15.40         443123.63         748463.10         0.00           18000.00         90.33         0.00         10559.92         7171.45         7171.43         -15.40	17190.44	90.30	0.00	10564.01	6461.90	6461.88	-15.40	442514.08	748463.10	0.00	Build
17300.00       90.33       0.00       10563.38       6571.46       6571.44       -15.40       442623.64       748463.10       0.00         17400.00       90.33       0.00       10562.80       6671.45       6671.44       -15.40       442723.64       748463.10       0.00         17500.00       90.33       0.00       10562.22       6771.45       6771.44       -15.40       442823.64       748463.10       0.00         17600.00       90.33       0.00       10561.65       6871.45       6871.43       -15.40       442923.63       748463.10       0.00         17800.00       90.33       0.00       10560.49       7071.45       6971.43       -15.40       443023.63       748463.10       0.00         17900.00       90.33       0.00       10550.49       7071.45       7071.43       -15.40       443123.63       748463.10       0.00         18000.00       90.33       0.00       10559.92       7171.45       7171.43       -15.40       443223.63       748463.10       0.00         18000.00       90.33       0.00       10559.34       7271.44       7271.43       -15.40       443223.63       748463.10       0.00         18050.52       90.33       0.	17192.03	90.33	0.00	10564.00	6463.49	6463.47	-15.40	442515.67	748463.10	2.00	T3-6463
17400.00         90.33         0.00         10562.80         6671.45         6671.44         -15.40         442723.64         748463.10         0.00           17500.00         90.33         0.00         10562.22         6771.45         6771.44         -15.40         442823.64         748463.10         0.00           17600.00         90.33         0.00         10561.65         6871.45         6871.43         -15.40         442923.63         748463.10         0.00           17700.00         90.33         0.00         10561.07         6971.45         6971.43         -15.40         443023.63         748463.10         0.00           17800.00         90.33         0.00         10560.49         7071.45         7071.43         -15.40         443123.63         748463.10         0.00           17900.00         90.33         0.00         10559.92         7171.45         7171.43         -15.40         443223.63         748463.10         0.00           18000.00         90.33         0.00         10559.92         7171.45         7171.43         -15.40         443223.63         748463.10         0.00           18000.00         90.33         0.00         10559.95         7321.96         7321.94         -15.40	17200.00	90.33	0.00	10563.95	6471.46	6471.44	-15.40	442523.64	748463.10	0.00	
17500.00       90.33       0.00       10562.22       6771.45       6771.44       -15.40       442823.64       748463.10       0.00         17600.00       90.33       0.00       10561.65       6871.45       6871.43       -15.40       442923.63       748463.10       0.00         17700.00       90.33       0.00       10561.07       6971.45       6971.43       -15.40       443023.63       748463.10       0.00         17800.00       90.33       0.00       10550.49       7071.45       7071.43       -15.40       443123.63       748463.10       0.00         18000.00       90.33       0.00       10559.92       7171.45       7171.43       -15.40       443223.63       748463.10       0.00         18000.00       90.33       0.00       10559.34       7271.44       7271.43       -15.40       443323.63       748463.10       0.00         18050.52       90.33       0.00       10559.05       7321.96       7321.94       -15.40       443374.14       748463.10       0.00       Drop         18067.04       90.00       0.00       10559.00       7338.49       7338.47       -15.40       443320.63       748463.10       0.00       T4-7338         1810	17300.00	90.33	0.00	10563.38	6571.46	6571.44	-15.40	442623.64	748463.10	0.00	
17600.00       90.33       0.00       10561.65       6871.45       6871.43       -15.40       442923.63       748463.10       0.00         17700.00       90.33       0.00       10561.07       6971.45       6971.43       -15.40       443023.63       748463.10       0.00         17800.00       90.33       0.00       10560.49       7071.45       7071.43       -15.40       443123.63       748463.10       0.00         18000.00       90.33       0.00       10559.92       7171.45       7171.43       -15.40       443223.63       748463.10       0.00         18000.00       90.33       0.00       10559.34       7271.44       7271.43       -15.40       443323.63       748463.10       0.00         18050.52       90.33       0.00       10559.05       7321.96       7321.94       -15.40       443374.14       748463.10       0.00       Drop         18067.04       90.00       0.00       10559.00       7338.49       7338.47       -15.40       443390.67       748463.10       2.00       T4-7338         18100.00       90.00       0.00       10559.00       7371.44       7371.43       -15.40       443423.63       748463.10       0.00	17400.00	90.33	0.00	10562.80	6671.45	6671.44	-15.40	442723.64	748463.10	0.00	
17700.00       90.33       0.00       10561.07       6971.45       6971.43       -15.40       443023.63       748463.10       0.00         17800.00       90.33       0.00       10560.49       7071.45       7071.43       -15.40       443123.63       748463.10       0.00         17900.00       90.33       0.00       10559.92       7171.45       7171.43       -15.40       443223.63       748463.10       0.00         18000.00       90.33       0.00       10559.34       7271.44       7271.43       -15.40       443323.63       748463.10       0.00         18050.52       90.33       0.00       10559.05       7321.96       7321.94       -15.40       443374.14       748463.10       0.00       Drop         18067.04       90.00       0.00       10559.00       7338.49       7338.47       -15.40       443390.67       748463.10       2.00       T4-7338         18100.00       90.00       0.00       10559.00       7371.44       7371.43       -15.40       443423.63       748463.10       0.00	17500.00	90.33	0.00	10562.22	6771.45	6771.44	-15.40	442823.64	748463.10	0.00	
17800.00       90.33       0.00       10560.49       7071.45       7071.43       -15.40       443123.63       748463.10       0.00         17900.00       90.33       0.00       10559.92       7171.45       7171.43       -15.40       443223.63       748463.10       0.00         18000.00       90.33       0.00       10559.34       7271.44       7271.43       -15.40       443323.63       748463.10       0.00         18050.52       90.33       0.00       10559.05       7321.96       7321.94       -15.40       443374.14       748463.10       0.00       Drop         18067.04       90.00       0.00       10559.00       7338.49       7338.47       -15.40       443390.67       748463.10       2.00       T4-7338         18100.00       90.00       0.00       10559.00       7371.44       7371.43       -15.40       443423.63       748463.10       0.00	17600.00	90.33	0.00	10561.65	6871.45	6871.43	-15.40	442923.63	748463.10	0.00	
17900.00       90.33       0.00       10559.92       7171.45       7171.43       -15.40       443223.63       748463.10       0.00         18000.00       90.33       0.00       10559.34       7271.44       7271.43       -15.40       443323.63       748463.10       0.00         18050.52       90.33       0.00       10559.05       7321.96       7321.94       -15.40       443374.14       748463.10       0.00       Drop         18067.04       90.00       0.00       10559.00       7338.49       7338.47       -15.40       443390.67       748463.10       2.00       T4-7338         18100.00       90.00       0.00       10559.00       7371.44       7371.43       -15.40       443423.63       748463.10       0.00	17700.00	90.33	0.00	10561.07	6971.45	6971.43	-15.40	443023.63	748463.10	0.00	
18000.00       90.33       0.00       10559.34       7271.44       7271.43       -15.40       443323.63       748463.10       0.00         18050.52       90.33       0.00       10559.05       7321.96       7321.94       -15.40       443374.14       748463.10       0.00       Drop         18067.04       90.00       0.00       10559.00       7338.49       7338.47       -15.40       443390.67       748463.10       2.00       T4-7338         18100.00       90.00       0.00       10559.00       7371.44       7371.43       -15.40       443423.63       748463.10       0.00	17800.00	90.33	0.00	10560.49	7071.45	7071.43	-15.40	443123.63	748463.10	0.00	
18050.52     90.33     0.00     10559.05     7321.96     7321.94     -15.40     443374.14     748463.10     0.00     Drop       18067.04     90.00     0.00     10559.00     7338.49     7338.47     -15.40     443390.67     748463.10     2.00     T4-7338       18100.00     90.00     0.00     10559.00     7371.44     7371.43     -15.40     443423.63     748463.10     0.00	17900.00	90.33	0.00	10559.92	7171.45	7171.43	-15.40	443223.63	748463.10	0.00	
18067.04     90.00     0.00     10559.00     7338.49     7338.47     -15.40     443390.67     748463.10     2.00     T4-7338       18100.00     90.00     0.00     10559.00     7371.44     7371.43     -15.40     443423.63     748463.10     0.00	18000.00	90.33	0.00	10559.34	7271.44	7271.43	-15.40	443323.63	748463.10	0.00	
18100.00 90.00 0.00 10559.00 7371.44 7371.43 -15.40 443423.63 748463.10 0.00	18050.52	90.33	0.00	10559.05	7321.96	7321.94	-15.40	443374.14	748463.10	0.00	Drop
	18067.04	90.00	0.00	10559.00	7338.49	7338.47	-15.40	443390.67	748463.10	2.00	T4-7338
18158.67 90.00 0.00 10559.00 7430.12 7430.10 -15.40 443482.30 748463.10 0.00 PBHL 205H	18100.00	90.00	0.00	10559.00	7371.44	7371.43	-15.40	443423.63	748463.10	0.00	
	18158.67	90.00	0.00	10559.00	7430.12	7430.10	-15.40	443482.30	748463.10	0.00	PBHL 205H

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Apache Corporation Ghost Rider 22-15 FED COM 205H Lea Co., New Mexico Plan P1:V2



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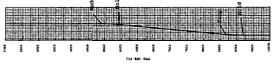












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Plan Point Information: (1867) (US 4 4900 ... 4900 .

Field: Apache IDN (Nad 83 MPEZ) Vertical Reference Datum (VND): Mean Sea Coordinate System: NADB3 / New Mexico East (ftUS)

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Unit 1855 rea for the formation of commy last, state of coperation for the formation of commy 25554, and 25

# 3 22-25 è

Mart Bast Base 23-15 Fed Com 2054 Offset Pasting centre 2005f Worldog 45052 2005f Leittode: 22.137012\* 4005f Earling: 202475, 2005f Leittode: -183.6656212\* Elevation Above WED: 3593,8005f

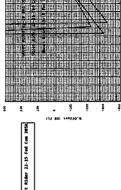
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•N/-S:

# Grid Convergence: 8.36\* Rag Declination: 6.90\* Bearing: True - Mag + 6.90\* Grid - True - 8.36\* Cottection FED.







1 Set Information:
1 (2) 2.15 (7 2004)
1 (4) 2.25 (7 2004)
1 (100 - 4) 2.5 (1 4) (1

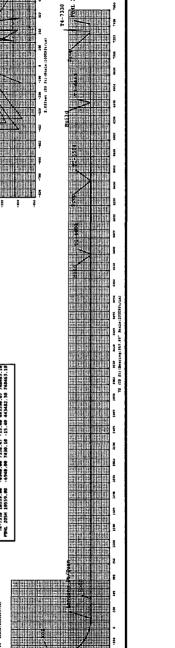
Name: 6 Name: 6 Position offs (1557) (1557) (1557) (1557) (1557) (1557, (15558

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Plan Data for Ghost Rider 22-15 Fed Com 28631



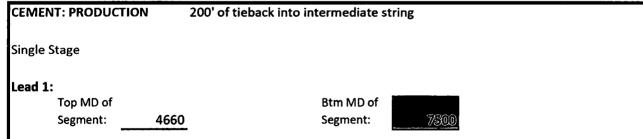


#### GHOST RIDER 22-15 FEDERAL COM 205H - CMT DETAIL - REVISED 2.19.19

CEMEN	NT: SURFACE		•		······································	
Stage 7	Tool Depth: N/A					
Single	Stage					
Lead:	Top MD of			3tm MD of		
	Segment:	0	9	Segment:	750	
	Cmt Type: C	<del></del>		Cmt Ac	dditives:	4% Bentonite + 1% CaCl2
	Quantity (sks):		385 1.75 Valuma (au)	/F+\ .	<i>(72 7</i> 5	
	Yield (cu/ft/sk): Density (lbs/gal):		1.75 Volume (cu/ 13.5 Percent OH		673.75 25%	
Tail:						
	Top MD of	750		Stm MD of	4050	
	Segment:	750	,	Segment:	1050	•
	Cmt Type: C			Cmt Ac	dditives:	1% CaCl2
	Quantity (sks): Yield (cu/ft/sk): Density (lbs/gal):		226 1.33 Volume (cu/ 14.8 Percent OH		300.58 25%	
CEME	NT: INTERMEDIATE					
Single	Stage					
Lead:						
	Top MD of Segment:	0		Stm MD of Segment:	3888	
						10% Sodium Chlorido + 5% Bentoniis Cel + 1% MgOzsM + 0.125%/sk Dura Fiber + 0.7%
	Cmt Type: C			Cmt Ac	dditives:	CPT-20A (Retardat)
	Quantity (sks): Yield (cu/ft/sk): Density (lbs/gal):		645 2.32 Volume (cu/ 12.7 Percent OH	•	1496A 25%	  -
Tail:						

	Top MD of		Btm MD of		
	Segment:	3888	<sup>*</sup> Segment:	<u>4860</u>	
	Cmt Type:	<u>C</u> .	Cmt A	10% Sodium Chlorido + MgOx-M + Q.4% QD-3 (Dispersini) + Q.4% QFi Additives: (Reterdar)	
	Quantity (s	:ks).	265		
	Yield (cu/fi		1.42 Volume (cu/ft):	. 494.7	
	Density (lb		1438 Percent OH Excess:	25%	
	, ,				
2 Stage	Cement Jo	b			
DVT wil	l be set a m	inimum of 5		ment volumes will be adjusted propor ninimum of 200 feet above current sh nsite for review.	
	circulation placed belo		ed, Apache may 2-stage Interm cs	sg. A DVT may be used in the 9-5/8" cs	sg & ECP
1st Stag	ge				
Lead:					
-	Top MD of		Btm MD of		
	Segment:	2280	Segment:	3888	
	Cmt Type:	<u>C</u>	Cmt A	10% Scalum Chloride 4 Bentende Gel + 1% Mg 0.1250/sk.Dura Fiber + Additives: CPT-21A (Getender)	4 M430
	o .:. (		ନ୍ଦ୍ର କ		
	Quantity (s Yield (cu/fi	•	୍ର <u>ଅଧି</u> ତ୍ର ଅଧିକ Volume (cu/ft):	7024	
	Density (lb		12.// Percent OH Excess:	25%	
		-707	Color		
Tail:					
	Top MD of	2000	Btm MD of		
	Segment:	3888	Segment:	4860	
	Cmt Type:	C	Cm+ A	19% Soften Chloride + MgO&M + 0.4% CD-2 (Disposent) + 0.4% GFI Additives: (Records)	
	Cilit Type.	<del></del>	CHICA	(Incomession)	
	Quantity (s	sks):	235		

	Yield (cu/ft/sk): Density (lbs/gal):	1,42 Volume (cu/ft): 14,8 Percent OH Excess:	25%
Stage T	Tool / ECP Depth:	± 2280'	
2nd Sta	age		:
Lead:	Top MD of Segment:	Btm MD of Segment:	
	Cmt Type: C	_ Cmt A	MEOREM + O.A.S. CD-S ((Dispersent) + O.1.S. Chris Asid ((Reserter))
	Quantity (sks): Yield (cu/ft/sk): Density (lbs/gal):	225 232 Volume (cu/ft): 12.7 Percent OH Excess:	· 661.2 25%
Tail:	Top MD of Segment:	Btm MD of Segment:	2280
	Cmt Type: C	_ Cmt A	10% Softum Chloride + 1% MgGr:4M + 0.4% CD-5 ([Dispersent] + 0.1% Chric Acid dditives: ([Retarder])
·	Quantity (sks): Yield (cu/ft/sk): Density (lbs/gal):	145 142 Volume (cu/ft): 148 Percent OH Excess:	265® 25%
CENAEN	IT: DRODUCTION	200' of tichack into intermediate	



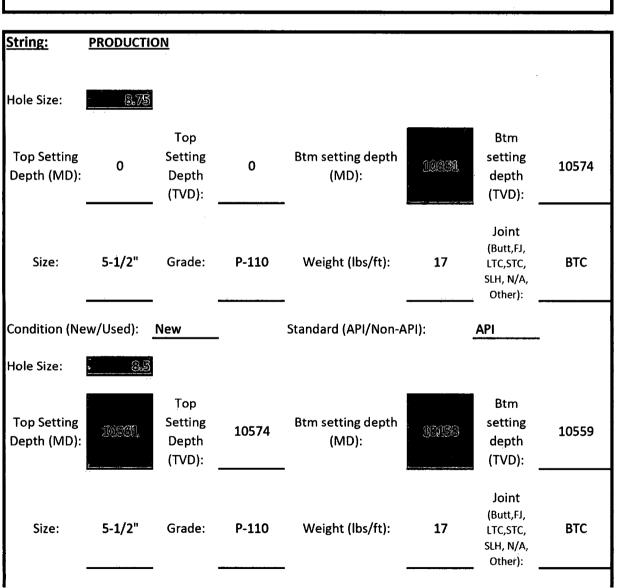
5% Sodium Chlorida + 12% NES 4K2S (SM Beeds) + 22% B-52 (SM Deccis) + 0.2% CPT-80 TXT 1811.0 4 (2201 bluff) ((Suppendion Akl)) + 0.423 GPT-24. (Retarder) Cmt Type: TXI Lite **Cmt Additives:** Quantity (sks): Yield (cu/ft/sk): Volume (cu/ft): 859,3 Percent OH Excess: Density (lbs/gal): 20% Lead 2: Top MD of Btm MD of Segment: Segment: 10111 IX Sodium Chlorida + IX MeOx M) + (0.113% CPT-20 ((Fluid Loca)) + O.15% CXT (Suppension Aid) + Cmt Type: TXI Lite 0.4% CFT-22 ((Neterder)) **Cmt Additives:** Quantity (sks): Yield (cu/ft/sk): Volume (cu/ft): 200.1 Density (lbs/gal): Percent OH Excess: 20% Tail: Top MD of Btm MD of Segment: 13153 Segment: LEM Softum Clifoddo + 97 MgCre N + 0.5% GPT49 (HUMLes) + 0.1% dpf-81A (Anti-Senting Azend) + D3% GFT-20A (Referder)) 4-0.2% CD S (Mercient) + 0.4% CPT-EGEP (Deformen) Cmt Type: TXI Lite Cmt Additives: Quantity (sks): Yield (cu/ft/sk): Volume (cu/ft): Density (lbs/gal): Percent OH Excess: 20%

#### GHOST RIDER 22-15 FED COM 205H - CSG PLAN - REVISED 2.19.19

String:	<u>SURFACE</u>									
Hole Size:	17.5									
Top Setting Depth (MD):	. 0	Top Setting Depth (TVD):	0	Btm setting depth (MD):	1050	Btm setting depth (TVD):	1050			
Size:	13-3/8"	Grade:	J-55	Weight (lbs/ft):	SAB	Joint (Butt,FJ, LTC,STC, SLH, N/A, Other):	DTC			
Condition (Ne	w/Used):	New		Standard (API/Non-A	API):	API				
-	Tapered String (Y/N)?: N  If yes, need spec attachment									
Safety Factors	<u>s</u>									
Collapse Desi	gn Safety Fa	ctor:	4.61	Burst Design Safety	Factor:	1.71				
Body Tensile I	_	-	e?: Dry/B		Buoyant	_				
Body Tensile I	Design Safet	ty Factor:		4.33	3					
Joint Tensile (			e?: Dry/E	Buoyant	Buoyant	_				
Joint Tensile [	Design Safet	y Factor:		: 43.7/						

String:	INTERMEDI	<u>ATE</u>			-	- · · · -	. ,
Hole Size:	12.25						
Top Setting Depth (MD):	0	Top Setting Depth (TVD):	0	Btm setting depth (MD):	4860	Btm setting depth (TVD):	4860
Size:	9-5/8"	Grade:	J-55	Weight (lbs/ft):	40	Joint (Butt,FJ, LTC,STC, SLH, N/A, Other):	LTC

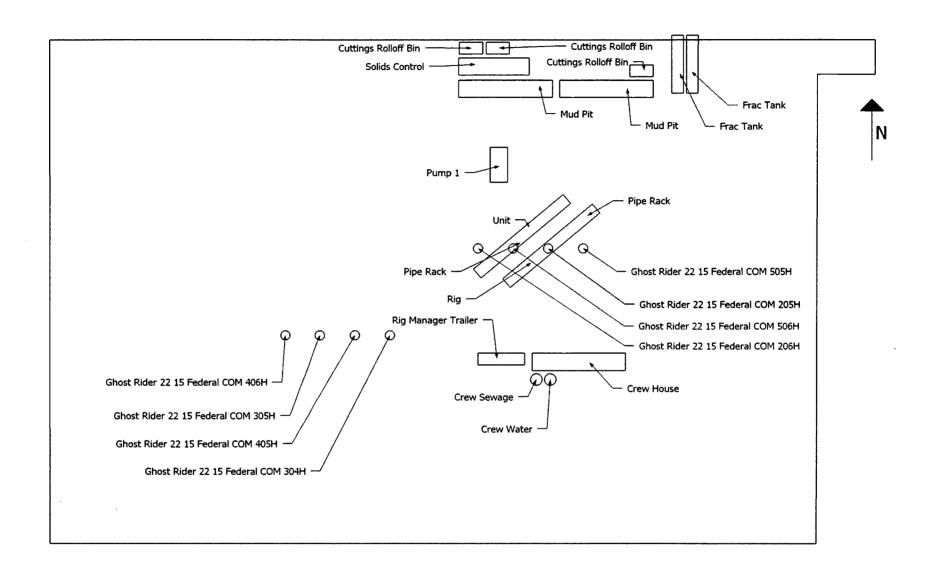
Condition (New/Used):	New .	Standard (API/Non-A	API):	API
Tapered String (Y/N)?: If yes, need spec atta	N chment			
Safety Factors				
Collapse Design Safety Fa	actor:	Burst Design Safety	Factor:	1.91
Body Tensile Design Safe Body Tensile Design Safe		Buoyant 2.17	Buoyant	-
Joint Tensile Design Safe Joint Tensile Design Safe		Buoyant 1.8	Buoyant .	-



Condition (New/Used): New	Standard (API/Non-API):	API
Safety Factors		
Collapse Design Safety Factor:	1.46 Burst Design Safety Factor:	1.25
Body Tensile Design Safety Factor type?: Body Tensile Design Safety Factor:	: Dry/Buoyant Buoyant 2.07	<del></del>
Joint Tensile Design Safety Factor type?: Joint Tensile Design Safety Factor:	: Dry/Buoyant Buoyant 2.18	<u>-</u>
Tapered String (Y/N)?: N  If yes, need spec attachment		

Apache Corp respectfully requests approval for the following changes and additions to the drilling plan:

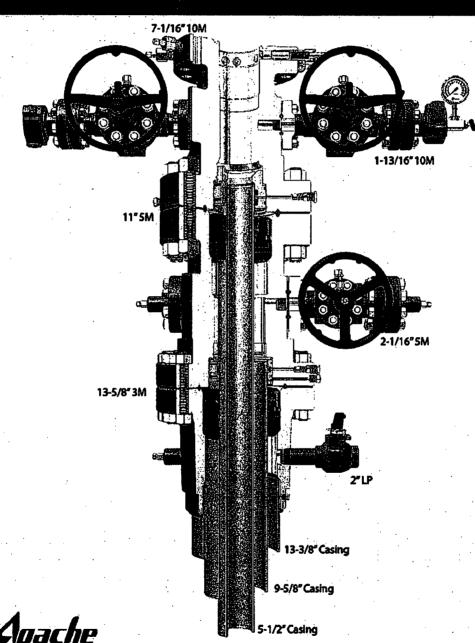
- 1. Utilize a spudder rig to pre-set surface casing.
- 2. Description of Operations
  - 1. Spudder rig will move in their rig to drill the surface hole section and pre-set surface casing on the Ghost Rider 22-15 Federal COM 205H.
    - a. After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (Onshore Oil and Gas Order No. 2).
    - b. Rig will utilize fresh water based mud to drill 17-1/2" surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2. The wellhead (page 3) will be installed and tested once the 13-3/8" surface casing is cut off and the WOC time has been reached.
- 3. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
  - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations is expected to take 1-2 days on a single well pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- Drilling operations will be performed with the drilling rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
  - a. The BLM will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.
- 7. Apache Corp will have supervision over the rig to ensure compliance with all BLM regulations and to oversee operations.
- 8. Once the rig is removed, Apache Corp will secure the wellhead area by placing a guard rail around the cellar area.



# **CAMERON**

A Schlümberger Communi

5M Conventional Wellhead 3-String



2017-166-02



ContiTech

**CONTITECH RUBBER** Industrial Kft.

No: QC-DB-205 / 2015 8 / 128

Page:

	QUALITY CON		ATE		CERT. N	10:	581	
PURCHASER:	ContiTech	Oil & Marine C	orp.		P.O. Nº:		4500511543	
CONTITECH RUBBER O	rder Nº: 540352	HOSE TYPE:	HOSE TYPE: 3" ID Choke and K			d Kill Hose		
HOSE SERIAL Nº:	69915	NOMINAL / AC	TUAL LEN	GTH:		10,67 r	m / 10,76 m	
W.P. 68,9 MPa	10000 psi	T.P. 103,4	MPa	1500	O psi	Duration:	60	min.
Pressure test with wate ambient temperature	-	See attachm	ent. ( 1 p	page	)			
COUPLING	S Type	Serial	N°	T	Qu	ality	Heat N°	

7565

**AISI 4130** 

**AISI 4130** 

NOT DESIGNED FOR WELL TESTING

3" coupling with

4 1/16" 10K API b.w. Flange end

API Spec 16 C

A0996X

036282

Temperature rate:"B"

All metal parts are flawless

WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

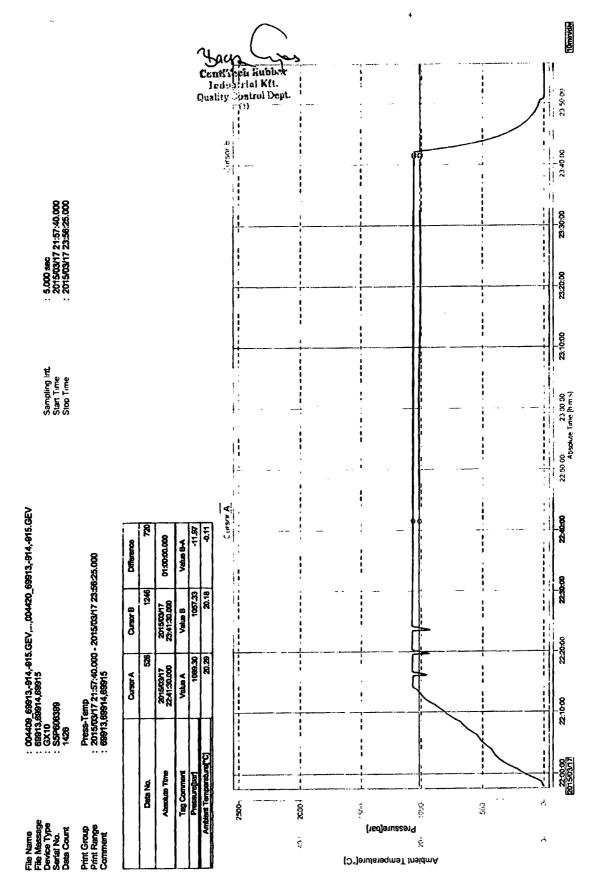
7563

STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

#### **COUNTRY OF ORIGIN HUNGARY/EU**

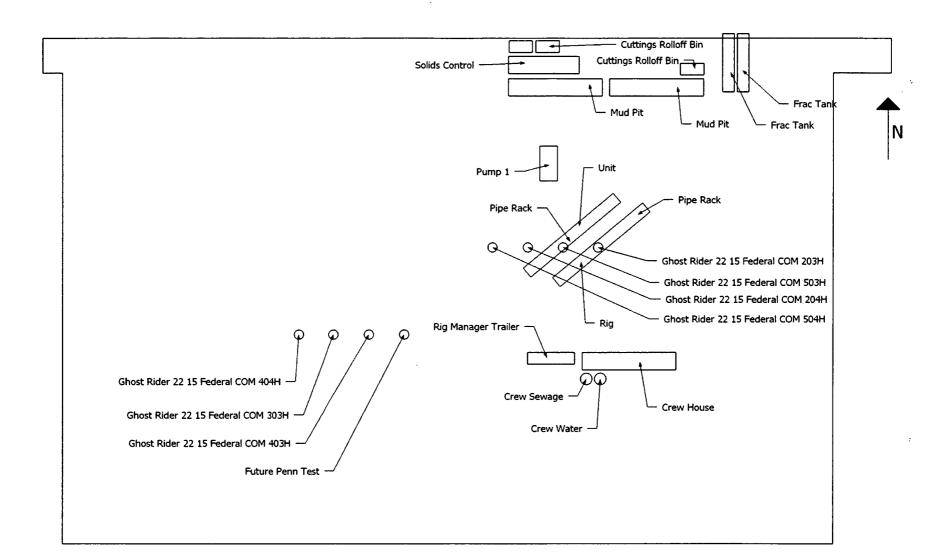
Date:	Inspector	Quality Control			
18. March 2015.		Cost	Caufflech Entitle Virtus I lei Kit. Cuiff Control Doy	Baya (30)	<u> </u>

Page: 1/1



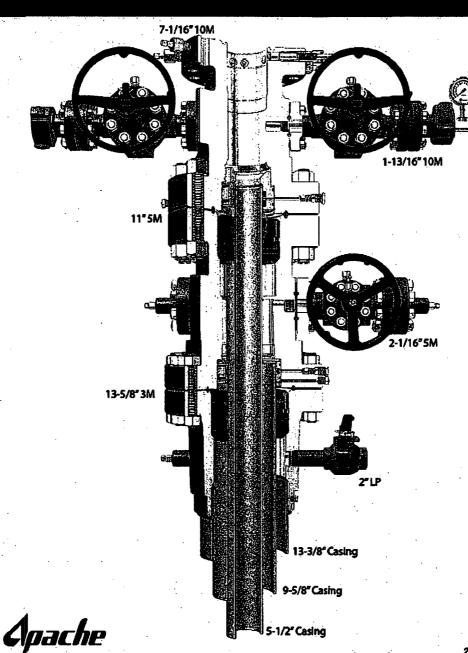
Apache Corp respectfully requests approval for the following changes and additions to the drilling plan:

- 1. Utilize a spudder rig to pre-set surface casing.
- 2. Description of Operations
  - 1. Spudder rig will move in their rig to drill the surface hole section and pre-set surface casing on the Ghost Rider 22-15 Federal COM 203H.
    - After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (Onshore Oil and Gas Order No. 2).
    - b. Rig will utilize fresh water based mud to drill 17-1/2" surface hole to TD. Solids control will be handled entirely on a closed loop basis.
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- 8. Once the rig is removed, Apache Corp will secure the wellhead area by placing a guard rail around the cellar area.



# CAMERON

**5M Conventional Wellhead** 3-String



2017-166-02



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



APD ID: 10400035231

Submission Date: 10/31/2018

**Operator Name: APACHE CORPORATION** 

Well Name: GHOST RIDER 22-15 FEDERAL COM

Well Type: OIL WELL

Well Number: 205H

Well Work Type: Drill

Alahi bahi alhaik eegnede (nees

**Show Final Text** 

## Section 1 - Existing Roads

Will existing roads be used? YES

**Existing Road Map:** 

GhostRider22\_15FedCom205H\_ExistingRoad\_20181030091741.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Water and roll roads for efficient and safe access

**Existing Road Improvement Attachment:** 

#### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

**New Road Map:** 

GhostRider22\_15FedCom205H\_206H\_ProposedRoad\_20181030092404.PDF

New road type: LOCAL

Length: 1304.2

Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 2

Army Corp of Engineers (ACOE) permit required? NO

**ACOE Permit Number(s):** 

New road travel width: 18

New road access erosion control: Road will be crowned for water drainage and to control erosion

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Well Name: GHOST RIDER 22-15 FEDERAL COM Well Number: 205H

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Push onsite topsoil to North end of pad to accommodate rig for drilling. Once pad is ready to be reclaimed, topsoil will be leveled as per onsite with BLM. No offsite topsoil will be used.

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

**Drainage Control** 

New road drainage crossing: OTHER

Drainage Control comments: Road will be crowned for water drainage

Road Drainage Control Structures (DCS) description: Road will be crowned to allow for water drainage

Road Drainage Control Structures (DCS) attachment:

**Access Additional Attachments** 

Additional Attachment(s):

**Section 3 - Location of Existing Wells** 

**Existing Wells Map? YES** 

Attach Well map:

GhostRider22\_15FedCom205H\_1MiRadius\_20181030092633.pdf

**Existing Wells description:** 

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Satellite pad will be built on Southeast side of pad. Lines from satellite will run to main battery as follows: One liquid (oil and water), approx total 4992.38 feet (6" line from satellite to header and 8" line from header to battery), buried Flex PL, rated 750psi, operating approx 250psi; One gas line, approx total 4992.38 feet (8" from satellite to header and 12" from header to battery), buried Poly SDR9 PL, rated 100psi, 60 WP; One gas lift line, approx total 4992.38 feet, 4" Flex PL, 1500psi, WP: 1200psi. A 50 feet wide disturbance will be needed to install buried pipelines. In areas where blading is allowed, topsoil will be stockpiled and separated from excavated trench mineral material. Final reclamation procedures will match procedures in plans for surface reclamation. When excavated soil is backfilled, it will be compacted to prevent subsidence. No berm over pipeline will be evident. The proposed pipeline does not cross lease boundaries, so a ROW will not need to be acquired from BLM.

**Production Facilities map:** 

Well Name: GHOST RIDER 22-15 FEDERAL COM Well Number: 205H

GhostRider22\_15FedCom205H\_206H\_ProposedGasLiftLines\_20181030093921.PDF GhostRider22\_15FedCom205H\_206H\_ProductionLines\_20181030094125.PDF

## Section 5 - Location and Types of Water Supply

#### **Water Source Table**

Water source use type: DUST CONTROL,

INTERMEDIATE/PRODUCTION CASING, SURFACE CASING

Describe type:

Source latitude: 31.977877

Source datum: NAD83

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: PRIVATE

Water source volume (barrels): 2214.2856 Source volume (acre-feet): 0.28540614

Source volume (gal): 93000

Water source use type: INTERMEDIATE/PRODUCTION CASING Water source type: OTHER

Describe type: BRINE

Source latitude: 32.429596 Source longitude: -103.14983

Source datum: NAD83

Water source permit type: PRIVATE CONTRACT

Source land ownership: STATE

Water source transport method: TRUCKING

Source transportation land ownership: STATE

Water source volume (barrels): 2214.2856 Source volume (acre-feet): 0.28540614

Source volume (gal): 93000

#### Water source and transportation map:

GhostRider22\_15FedCom\_FWSource\_20180830092834.pdf GhostRider22\_15FedCom\_BrineWaterSource\_20180830092829.pdf

Water source comments:

New water well? NO

#### **New Water Well Info**

Well latitude:

Well Longitude:

Well datum:

Water source type: GW WELL

Source longitude: -103.73879

Well target aquifer:

Well Name: GHOST RIDER 22-15 FEDERAL COM Well Number: 205H

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

**Aquifer comments:** 

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

**Drilling method:** 

**Drill material:** 

**Grout material:** 

**Grout depth:** 

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

#### **Section 6 - Construction Materials**

Construction Materials description: Caliche will be hauled/trucked from a BLM approved pit. No surface materials will be distributed except those necessary for actual grading and construction of the drill site.

**Construction Materials source location attachment:** 

#### **Section 7 - Methods for Handling Waste**

Waste type: DRILLING

Waste content description: Drilling fluid from well, during drilling ops, will be stored safely and recycled to next well. Any

excess will be hauled to approved NMOCD disposal facility.

Amount of waste: 2500

Waste disposal frequency: One Time Only

barrels

Safe containment description: Drilling fluids will be stored in sealed frac tanks

Safe containment attachment:

Waste disposal type: RECYCLE

**Disposal location ownership: OTHER** 

Disposal type description:

Disposal location description: Operators next well

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of at a state approved disposal facility. All trash on and around well site will be collected for

disposal.

Amount of waste: 1500

pounds

Waste disposal frequency: Weekly

Safe containment description: Garbage will be disposed of in portable trash trailers

Well Name: GHOST RIDER 22-15 FEDERAL COM Well Number: 205H

Safe containment attachment:

Waste disposal type: OTHER Disposal location ownership: STATE

Disposal type description: Land fill

Disposal location description: Lea County Landfill or Eddy County Landfill

Waste type: SEWAGE

Waste content description: Human waste and grey water will be properly contained and disposed of at a state approved

facility.

Amount of waste: 2000 gallons

Waste disposal frequency: Weekly

Safe containment description: Sewage will be stored in steel waste tanks

Safe containment attachment:

Waste disposal type: OTHER Disposal location ownership: STATE

Disposal type description: Municipal waste facility

Disposal location description: Hobbs Municipal Waste Facility

Waste type: DRILLING

Waste content description: Excess cement returns

Amount of waste: 40 barrels

Waste disposal frequency: Weekly

Safe containment description: Cement returns will be stored in steel roll off bins then transferred to disposal vacuum trucks

Safe containmant attachment:

Waste disposal type: OTHER Disposal location ownership: PRIVATE

Disposal type description: Haul to private facility

Disposal location description: R360, 6601 W. Hobbs Hwy, Carlsbad, NM

Waste type: CHEMICALS

Waste content description: After drilling and completions, chemicals, salts, frac sand and other waste material will be

removed and disposed of at a state approved disposal facility.

Amount of waste: 2000 pounds

Waste disposal frequency: Weekly

Safe containment description: Chemicals will be stored in frac tanks

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

**FACILITY** 

Disposal type description:

Well Name: GHOST RIDER 22-15 FEDERAL COM

Well Number: 205H

Disposal location description: R360, 6601 W Hobbs Hwy, Carlsbad, NM 88220

Waste type: PRODUCED WATER

Waste content description: Produced water will be hauled to private SWD

Amount of waste: 1500

barrels

Waste disposal frequency: Daily

Safe containment description: Produced water will be transported via pipeline to battery and from battery to SWD

Safe containment attachment:

Waste disposal type: OTHER

Disposal location ownership: PRIVATE

Disposal type description: Private SWD

Disposal location description: OWL/Mesquite

#### **Reserve Pit**

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

#### **Cuttings Area**

**Cuttings Area being used? NO** 

Are you storing cuttings on location? YES

Description of cuttings location Cuttings will be stored in steel haul off bins and taken to an NMOCD approved disposal

facility.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

**WCuttings** area liner

Cuttings area liner specifications and installation description

Well Name: GHOST RIDER 22-15 FEDERAL COM Well Number: 205H

#### **Section 8 - Ancillary Facilities**

Are you requesting any Ancillary Facilities?: NO

**Ancillary Facilities attachment:** 

#### Comments:

#### Section 9 - Well Site Layout

#### Well Site Layout Diagram:

GhostRider22\_15FedCom205H\_DrillingRigWellLayout\_20190130091555.pdf GhostRider22 15FedCom205H WellsiteLayoutPlat 20190130091556.pdf Comments:

#### **Section 10 - Plans for Surface Reclamation**

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: GHOST RIDER 22-15

Multiple Well Pad Number: 2 WEST

#### **Recontouring attachment:**

Drainage/Erosion control construction: During construction proper erosion control methods will be used to control erosion, runoff and siltation of surrounding area

Drainage/Erosion control reclamation: Reclamation is going to follow natural terrain to control erosion, runoff and siltation of surrounding area.

Well pad proposed disturbance

(acres): 6.54

Road proposed disturbance (acres):

0.898

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 3.438

Other proposed disturbance (acres): 0

Total proposed disturbance: 10.876

Well pad interim reclamation (acres): Well pad long term disturbance

Road interim reclamation (acres): 0

Powerline interim reclamation (acres):

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 4.52

(acres): 4.52

Road long term disturbance (acres):

0.898

Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 0

Other long term disturbance (acres): 0

Total long term disturbance: 5.418

## **Disturbance Comments:**

Reconstruction method: Areas planned for interim reclamation will be contoured to original contour if feasible, or if not feasible, to an interim contour that blends with surrounding topography as much as possible. Where applicable, fill material of well pad will be back filled into the cut to bring area back to original contour.

Topsoil redistribution: Topsoil that was spread over interim reclamation areas will be stockpiled prior to recontouring. Topsoil will be redistributed evenly over entire disturbed site to ensure successful revegetation.

Soil treatment: No soil treatment expected.

#### Existing Vegetation at the well pad:

#### **Existing Vegetation at the well pad attachment:**

Operator Name: APACHE CORPORATION		
Well Name: GHOST RIDER 22-15 FEDERAL COM	Well Number: 205H	
Existing Vegetation Community at the road:		
Existing Vegetation Community at the road attachmen	ıt:	
Existing Vegetation Community at the pipeline:		
Existing Vegetation Community at the pipeline attach	ment:	
Existing Vegetation Community at other disturbances	· .	
Existing Vegetation Community at other disturbances	attachment:	· .
Non native seed used?		
Non native seed description:		
Seedling transplant description:	:	
Will seedlings be transplanted for this project?		
Seedling transplant description attachment:		
Will seed be harvested for use in site reclamation?		
Seed harvest description:		
Seed harvest description attachment:		
Seed Management		
Seed Table		
Seed type:	Seed source:	
Seed name:		
Source name:	Source address:	
Source phone:		
Seed cultivar:		
Seed use location:		
DI S pounds per sere	Proposed seeding seeson:	

Total pounds/Acre:

Seed reclamation attachment:

**Seed Type** 

**Seed Summary** 

Pounds/Acre

Well Name: GHOST RIDER 22-15 FEDERAL COM W

Well Number: 205H

## **Operator Contact/Responsible Official Contact Info**

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

**Existing invasive species treatment attachment:** 

**Weed treatment plan description:** Operator will consult with authorized officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

Weed treatment plan attachment:

**Monitoring plan description:** No interim reclamation required for this pad, but if needed, reclaimed areas will be monitored periodically to ensure vegetation has re-established, that area is not re-disturbed, and erosion is controlled. **Monitoring plan attachment:** 

Success standards: Objective of interim reclamation is to restore vegetative cover and a portion of landform sufficient to maintain healthy, biologically active topsoil, control erosion, and minimize habitat and forage loss, visual impact, and weed infestation during life of well or facilities. Long term objective of final reclamation is to return land to a condition similar to what existed prior to disturbance. This includes restoration of landform and natural vegetative community, hydrologic systems, visual resources, and wildlife habitats. To ensure that the long term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity. BLM will be notified 3 days prior to commencement of any reclamation procedures. If circumstances allow, interim and/or final reclamation actions will be completed no later than 6 months from when the final well on location has been completed or plugged. We will gain written permission from BLM if more time is needed Pit closure description: Not applicable

Pit closure attachment:

### Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

**NPS Local Office:** 

**State Local Office:** 

Well Name: GHOST RIDER 22-15 FEDERAL COM	Well Number: 205H	4
Military Local Office:		· · · · · · · · · · · · · · · · · · ·
USFWS Local Office:		
Other Local Office:		
USFS Region:		
USFS Forest/Grassland:	USFS Ranger District:	
Disturbance type: NEW ACCESS ROAD		
Describe:		
Surface Owner: BUREAU OF LAND MANAGEMENT		
Other surface owner description:		
BIA Local Office:		
BOR Local Office:	,	
COE Local Office:		
DOD Local Office:	•	
NPS Local Office:		
State Local Office:		
Military Local Office:		
USFWS Local Office:		
Other Local Office:		
USFS Region:		
USFS Forest/Grassland:	USFS Ranger District:	
	•	
Disturbance type: PIPELINE	1	
Describe:		
Surface Owner: BUREAU OF LAND MANAGEMENT		
Other surface owner description:		

BIA Local Office:
BOR Local Office:
COE Local Office:

Well Name: GHOST RIDER 22-15 FEDERAL COM Well Number: 205H **DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office:** Other Local Office: **USFS Region: USFS Forest/Grassland: USFS Ranger District: Disturbance type: OTHER** Describe: Gas Lift Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office: BOR Local Office: COE Local Office:** DOD Local Office: NPS Local Office: **State Local Office:** Military Local Office: **USFWS Local Office:** Other Local Office: **USFS Region: USFS Forest/Grassland: USFS Ranger District:** 

**Operator Name: APACHE CORPORATION** 

Operator Name: APACHE CORPORATION		
Well Name: GHOST RIDER 22-15 FEDERAL COM	Well Number: 205H	
Disturbance type: OTHER		
Describe: Electrical Line		
Surface Owner: BUREAU OF LAND MANAGEMENT		
Other surface owner description:		
BIA Local Office:		
BOR Local Office:		
COE Local Office:		
OOD Local Office:		•
IPS Local Office:		
State Local Office:		
filitary Local Office:		
JSFWS Local Office:		
Other Local Office:		
JSFS Region:		
JSFS Forest/Grassland:	<b>USFS Ranger District:</b>	i
Disturbance type: OTHER		
Describe: Battery Pad		
Surface Owner: BUREAU OF LAND MANAGEMENT		
Other surface owner description: BIA Local Office:		
BOR Local Office: COE Local Office:		
OOD Local Office:		
IPS Local Office:		
State Local Office:		1
Ailitary Local Office: JSFWS Local Office:		
Distrives Local Office:		
Julei Local Cilice.		
JSFS Region:		

USFS Forest/Grassland:

**USFS Ranger District:** 

Well Name: GHOST RIDER 22-15 FEDERAL COM Well Number: 205H

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

**ROW Applications** 

**SUPO Additional Information:** Apache proposes to install approx 5105.37 feet of electrical line from pads to existing electrical line. Approx 30' of disturbance will be needed to install line. Elect line will be constructed to provide protection from raptor electrocution. Proposed line does not cross lease boundaries. ROW grant will not need to be acquired from BLM. **Use a previously conducted onsite?** YES

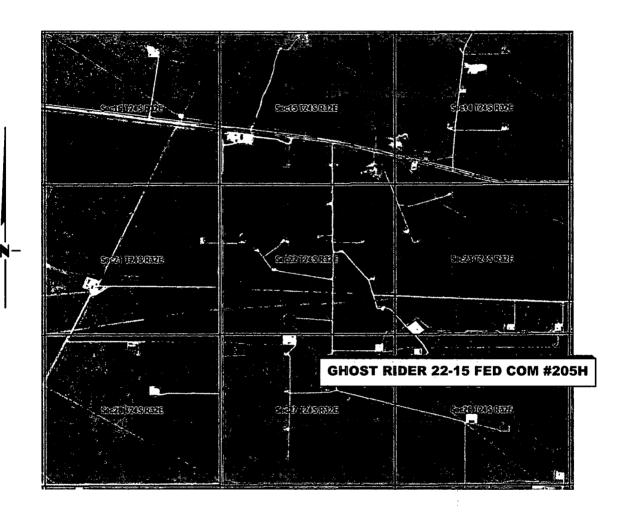
**Previous Onsite information:** Onsite for the Ghost Rider 22-15 Federal Com 201H - 206H conducted on 12/6/2016 & 9/11/2017.

**Other SUPO Attachment** 

GhostRider22\_15FedCom205H\_ReclaimPlat\_20190130091620.pdf
GhostRider22\_15FedCom205H\_206H\_ProposedElectLines\_20190130091723.PDF

## VICINITY MAP

NOT TO SCALE



SECTION 22, TWP. 24 SOUTH, RGE. 32 EAST, N. M. P. M., LEA COUNTY, NEW MEXICO

OPERATOR: Apache Corporation

LEASE: Ghost Rider 22-15 Federal Com ELEVATION: 3593'

WELL NO.: 205H

LOCATION: 442' FSL & 2286' FWL

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NO. REVISION DATE JOB NO.: LS1805672



SCALE: N / A DATE: 5-29-2018 SURVEYED BY: AB/BC DRAWN BY: CAR APPROVED BY: JLF SHEET: 1 OF 1

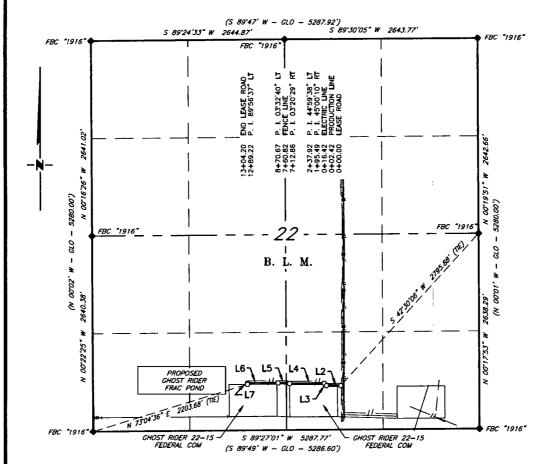
DWG. NO.: 1805672VM 205 308 W. BROADWAY ST., HOBBS, NM 88240

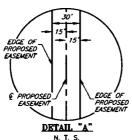
(575) 964-8200

## APACHE CORPORATION GHOST RIDER 22-15 FEDERAL COM PROPOSED ROAD

**SECTION 22, T24S, R32E** 

N. M. P. M., LEA COUNTY, NEW MEXICO





LINE TABLE		
LINE	BEARING	LENGTH
L2	S 89'35'25" W	195.49'
L3	N 45'24'25" W	42.43'
L4	S 89°35'57" W	474.94'
L5	N 87'03'34" W	157.81
L6	S 89'23'46" W	418.55'
L7	S 00°32'49" E	14.98'

BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND.

**LEGEND** 

RECORD DATA - GLO

FOUND MONUMENT AS NOTED ROAD

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby-certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Vanater NM PS 10034



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NO. REVISION DATE JOB NO.: LS1708502 DWG. NO.: 1708502E



308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200 SCALE: 1" = 1000 DATE: 06/26/18 SURVEYED BY: AB/BC DRAWN BY: JBT APPROVED BY: JLF SHEET: 3 OF 4

## APACHE CORPORATION GHOST RIDER 22-15 FEDERAL COM PROPOSED ROAD

SECTION 22, T24S, R32E N. M. P. M., LEA COUNTY, NEW MEXICO

A strip of land 30 feet wide, being 1,304.20 feet or 79.042 rods in length, lying in Section 22, Township 24 South, Range 32 East, N. M. P. M., Lea County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land:

BEGINNING at Engr. Sta. 0+00, a point in the Southeast quarter of Section 22, which bears, S 42'30'06" W, 2,795.88 feet from a brass cap, stamped "1916", found for the East quarter corner of Section 22;

Thence, S 89'35'25" W, 195.49 feet, to Engr. Sta. 01+95.49, a P. I. of 45'00'10" right;

Thence, N 45'24'25" W, 42.43 feet, to Engr. Sta. 02+37.92, a P. I. of 44'59'38" left;

Thence, S 89'35'57" W, 474.94 feet, to Engr. Sta. 07+12.86, a P. I. of 03'20'29" right;

Thence, N 87"03"34" W, 157.81 feet, to Engr. Sta. 08+70.67, a P. I. of 03"32'40" left;

Thence, S 89'23'46" W, 418.55 feet, to Engr. Sta. 12+89.22, a P. I. of 89'56'37" left;

Thence, S 00°32'49" E, 14.98 feet, to Engr. Sta. 13+04.20, the End of Survey, a point in the Southwest quarter of Section 22, which bears, N 73'04'36" E 2,203.68 feet from a brass cap, stamped "1916", found for the Southwest corner of Section 22.

Said strip of land contains 0.898 acres, more or less, and is allocated by forties as follows:

SE 1/4 SW 1/4

33.173 Rods

0.377 Acres

SW 1/4 SE 1/4

45.869 Rods

0.521 Acres

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Jeffley L. Vansler
Jeffley L. Fansler NM PS 1

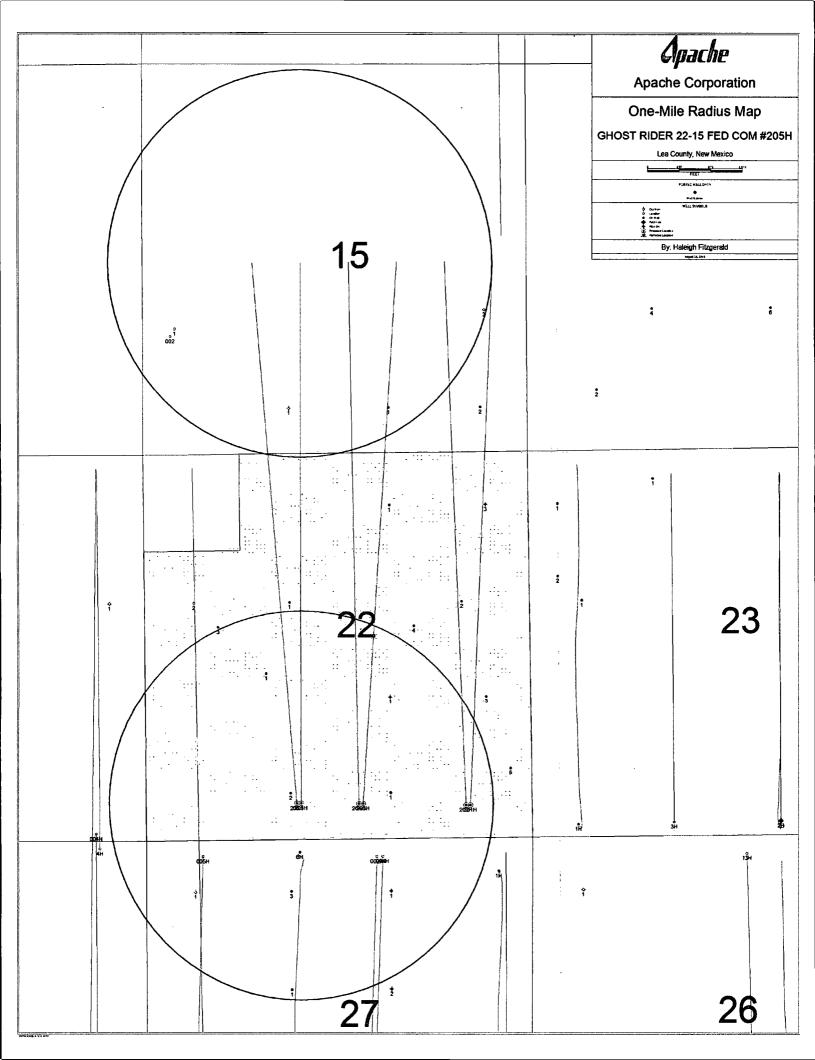
NM PS 10034

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308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

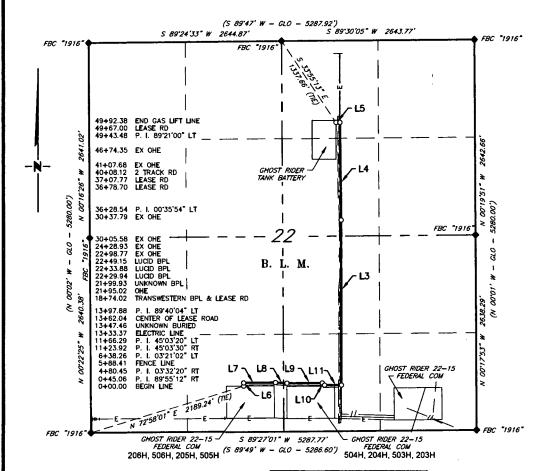
SCALE: 1" = 1000" DATE: 06/26/18 SURVEYED BY: AB/BC DRAWN BY: JBT APPROVED BY: JLF SHEET: 4 OF 4

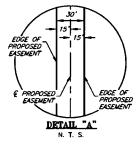
REVISION JOB NO.: LS1708502 DWG. NO.: 1708502E



#### APACHE CORPORATION GHOST RIDER 22-15 FEDERAL COM PROPOSED GAS LIFT LINE

**SECTION 22, T24S, R32E** N. M. P. M., LEA COUNTY, NEW MEXICO





LINE TABLE						
LINE	BEARING	LENGTH				
L3	N 00°04'14" W	2230.66				
L4	N 00'40'08" W	1314.94				
L5	S 89'58'52" W	48.90				

LINE TABLE					
LINE	BEARING	LENGTH			
L6	N 00'30'50" W	45.06			
L7	N 89'24'22" E	435.39			
L8	S 87'03'18" E	157.81			
L9	N 89'35'40" E	485.66			
L10	S 45'20'50" E	42.37			
L11	N 89'35'50" E	231.59			

1" = 1000" 500

BEARINGS ARE GRID NAD 83 NW EAST DISTANCES ARE HORIZ. GROUND.

LEGEND

RECORD DATA - GLO

FOUND MONUMENT AS NOTED

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my

knowledge and belief. Vanster PRODUCTION & GAS LIFT LINE JETTLEY L. Fansler NM PS 10034



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NO. DATE REVISION JOB\_NO.: LS1708502 DWG. NO.: 1708502E



308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000" DATE: 06/26/18 SURVEYED BY: AB/BC DRAWN BY: JBT APPROVED BY: JLF SHEET: 4 OF 7

#### APACHE CORPORATION GHOST RIDER 22-15 FEDERAL COM PROPOSED GAS LIFT LINE

SECTION 22, T24S, R32E N. M. P. M., LEA COUNTY, NEW MEXICO

#### DESCRIPTION

A strip of land 50 feet wide, being 4,992.38 feet or 302.568 rods in length, lying in Section 22, Township 24 South, Range 32 East, N. M. P. M., Lea County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land:

BEGINNING at Engr. Sta. 0+00, a point in the Southwest quarter of Section 22, which bears, N 72°58'01" E, 2,189.24 feet from a brass cap, stamped "1916", found for the Southwest corner of Section 22;

Thence, N 00"30"50" W, 45.06 feet, to Engr. Sta. 0+45.06, a P. I. of 89"55"12" right;

Thence, N 89°24'22" E, 435.39 feet, to Engr. Sta. 4+80.45, a P. I. of 03°32'20" right;

Thence, S 87'03'18" E, 157.81 feet, to Engr. Sta. 6+38.26, a P. I. of 03'21'02" left;

Thence, N 89'35'40" E, 485.66 feet, to Engr. Sta. 11+23.92, a P. I. of 45'03'30" right;

Thence, S 45'20'50" E, 42.37 feet, to Engr. Sta. 11+66.29, a P. I. of 45'03'20" left;

Thence, N 89°35′50" E, 231.59 feet, to Engr. Sta. 13+97.88, a P. I. of 89°40′04" left;

Thence, N 00°04'14" W, 2230.66 feet, to Engr. Sta. 36+28.54, a P. I. of 00°35'54" left;

Thence, N 00°40'08" W, 1314.94 feet, to Engr. Sta. 49+43.48 , a P. I. of 89°21'00" left;

Thence, S 89°58′52" W. 48.90 feet, to Engr. Sta. 49+92.38, the End of Survey, a point in the Northeast quarter of Section 22, which bears, S 33'55'13" E, 1,337.66 feet from a brass cap, stamped "1916", found for the North quarter corner of Section 22.

Said strip of land contains 3.438 acres, more or less, and is allocated by forties as follows:

SW	1/4	SE	1/4	48.627	Rods	0.553	Acres
SW	1/4	SE	1/4	78.478	Rods	0.891	Acres
NW	1/4	SE	1/4	79.973	Rods	0.909	Acres
SW	1/4	ΝE	1/4	80.108	Rods	0.910	Acres
NW	1/4	NE	1/4	15.382	Rods	0.175	Acres

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Jeffley L. Vanaler

Jeffley L. Fansler

NM PS 1

NM PS 10034

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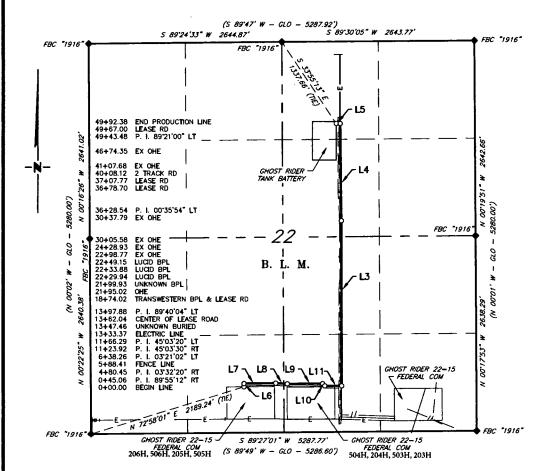
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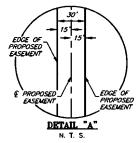
NO. REVISION DATE JOB NO.: LS1708502 DWG. NO.: 1708502E

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

## APACHE CORPORATION GHOST RIDER 22-15 FEDERAL COM PROPOSED PRODUCTION LINE (1-Oil/Water and 1-Gas) SECTION 22, T24S, R32E

N. M. P. M., LEA COUNTY, NEW MEXICO





LINE TABLE					
LINE	BEARING	LENGTH			
L3	N 00'04'14" W	2230.66			
L4	N 00'40'08" W	1314.94			
L5	S 89 58 52" W	48.90'			

LINE TABLE					
LINE	BEARING	LENGTH			
L6	N 00'30'50" W	45.06			
L7	N 89'24'22" E	435.39'			
L8	S 87'03'18" E	157.81			
L9	N 89'35'40" E	485.66			
L10	S 45°20'50" E	42.37'			
L11	N 89*35'50" E	231.59			

SCALE: 1" = 1000'

BEARINGS ARE GRID NAD 8.3 NM EAST DISTANCES ARE HORIZ. GROUND.

<u>LEGEND</u>

( ) RECORD DATA - GLO

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stas. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

PRODUCTION & GAS LIFT LINE JETTLEY L. Fansler NM PS 10034



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NO. REVISION DATE

JOB NO.: LS1708502

DWG. NO.: 1708502E



308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'

DATE: 06/26/18

SURVEYED BY: AB/BC

DRAWN BY: JBT

APPROVED BY: JLF

SHEET: 4 OF 7

#### APACHE CORPORATION GHOST RIDER 22-15 FEDERAL COM PROPOSED PRODUCTION LINE

SECTION 22, T24S, R32E N. M. P. M., LEA COUNTY, NEW MEXICO

#### DESCRIPTION

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Thence, N 89'35'40" E, 485.66 feet, to Engr. Sta. 11+23.92, a P. I. of 45'03'30" right;

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Thence, N 00'04'14" W, 2230.66 feet, to Engr. Sta. 36+28.54, a P. I. of 00'35'54" left;

Thence, N 00'40'08" W, 1314.94 feet, to Engr. Sta. 49+43.48 , a P. I. of 89'21'00" left;

Thence, S 89'58'52" W, 48.90 feet, to Engr. Sta. 49+92.38, the End of Survey, a point in the Northeast quarter of Section 22, which bears, S 33'55'13" E, 1,337.66 feet from a brass cap, stamped "1916", found for the North quarter corner of Section 22.

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SW 1/4 SE 1/4	78.478 Rods	0.891 Acres
NW 1/4 SE 1/4	79.973 Rods	0.909 Acres
SW 1/4 NE 1/4	80.108 Rods	0.910 Acres
NW 1/4 NE 1/4	15.382 Rods	0.175 Acres

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Jeffley L. Vanster
Jeffley L. Fansler NM PS 1

NM PS 10034

SS/ONAL

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SCALE: 1" = 1000" DATE: 06/26/18 SURVEYED BY: AB/BC DRAWN BY: JBT APPROVED BY: JLF

SHEET: 5 OF 7

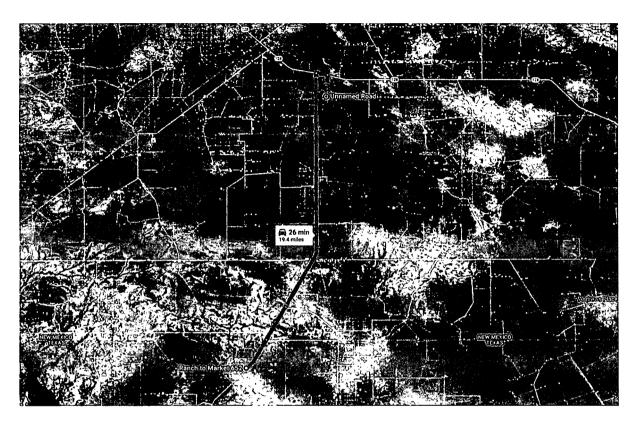
REVISION JOB NO.: LS1708502 DWG. NO.: 1708502E

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

#### **Ghost Rider 22-15 Federal COM Fresh Water Source**

(water source may change pending availability)

Source: Lindsey Water Station (31.977877, -103.738792)



#### RM 652

Texas

- Head northeast on RM 652 E toward Private Rd 3030
  - 1 Entering New Mexico

2 0 mi

↑ Continue onto J-1/Orla Rd

15.6 mi

Turn right onto NM-128 E

0.6 mi

Turn right

1.2 mi

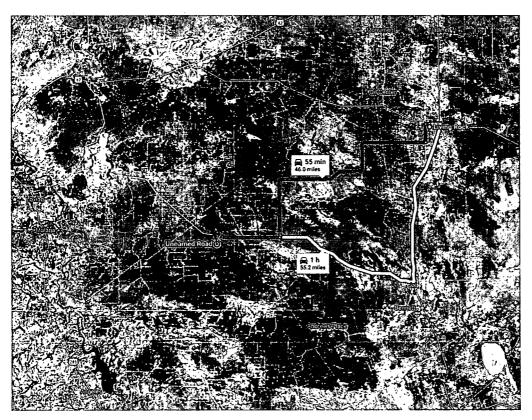
#### **Unnamed Road**

Jal, NM 88252

### **Ghost Rider 22-15 Federal COM Brine Water Sources**

(Brine Water Source may change pending availability)

Source: Basic Brine Station (32.429596, -103.149834)



#### **Living Rock**

Eunice, NM 88231

 Take Desert Spoon and S 6th St to Texas Ave in Eunice

3 min (0.4 mi)

Head north on Desert Spoon toward Prickley
Pear

0.2 mi

↑ Turn left onto Cholla St

394 ft

Turn right at the 1st cross street onto S 6th St

Drive along Delaware Basin Rd

49 min (44.3 mi)

↑ Turn left onto Texas Ave

Turn left onto NM-207 S/Main St
⊕ Continue to follow NM-207 S

O CONTINUE TO 10

Turn right onto Delaware Basin Rd

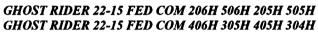
Turn right onto NM-128 W

8.8 mi

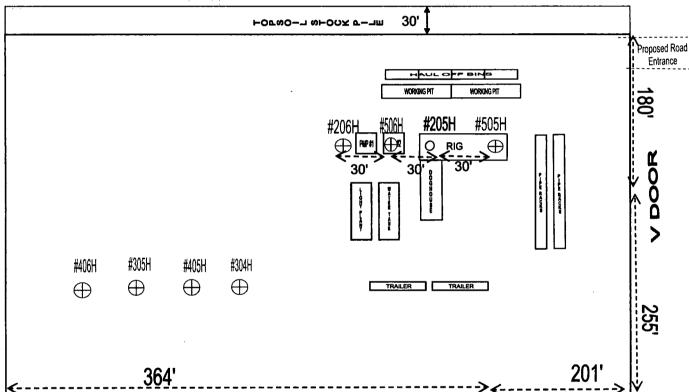
Turn left

4 min (1 2 mi)

## RIG ORIENTATION & LAYOUT (WEST PAD) (Plat not to scale; Rig layout may vary pending rig availability)







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

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

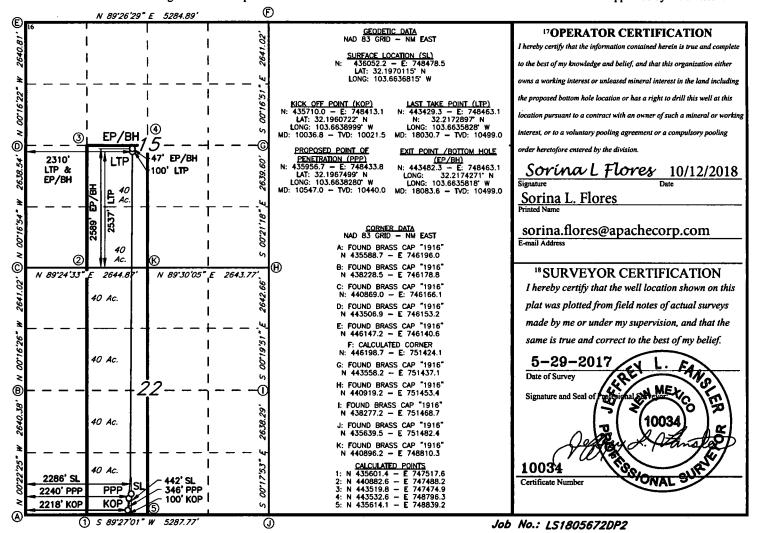
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

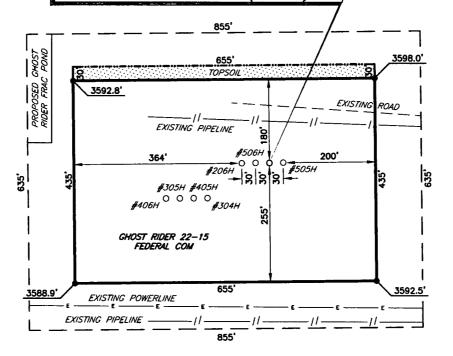
1	<sup>1</sup> API Number <sup>2</sup> Pool Code <sup>3</sup> Pool N			r 2Pool Code			<sup>3</sup> Pool Name		
30-025-	)-025-			9 .	l W	WILDCAT; BONESPRING			
4Property Code 3 Property Name GHOST RIDER 22-15 FEDERAL COM					6 Well Number 205H				
70GRID 1	NO.					Operator Name 9Elevation 3593'			
					10 Surface	E Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West lin	ne County
N	22	24S	32E		442	SOUTH	2286	WEST	LEA
			11 ]	Bottom H	lole Location	n If Different Fi	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	ne County
K	15	24S	32E		2589	SOUTH	2310	WEST	LEA
12 Dedicated Acres	13 Joint	or Infill 14	Consolidation	Code 15 C	Order No.	•			
240									

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



APACHE CORPORATION
GHOST RIDER 22-15 FED COM #205H
(442' FSL & 2286' FWL)
SECTION 22, T24S, R32E
N. M. P. M., LEA CO., NEW MEXICO

GHOST RIDER 22-15 FEDERAL COM #205H ELEV.: 3593' LAT: 32.1970115° N (NAD 83) LONG: 103.6636815° W (NAD 83)



SCALE: 1" = 200'
0 100 200

BEARINGS ARE
NAD 83 GRID — NM EAST
DISTANCES ARE
GROUND.

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Jeffrey L. Vansler
Vertrey L. Fansler
NM PS 10034

g in 6/1/18

6/1/18

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NO. REVISION DATE
JOB NO.: LS1805672

DWG. NO.: 1805672\_205H

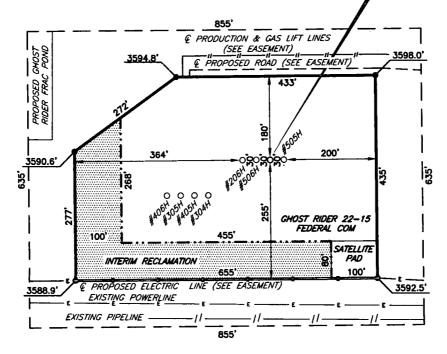


308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 200'
DATE: 5-24-2018
SURVEYED BY: AB/RU
DRAWN BY: JBT
APPROVED BY: RMH
SHEET: 1 OF 1

#### APACHE CORPORATION GHOST RIDER 22-15 FEDERAL COM #205H (442' FSL & 2286' FWL) SECTION 22, T24S, R32E N. M. P. M., LEA CO., NEW MEXICO

GHOST RIDER 22-15 FEDERAL COM #205H ELEV.: 3593' LAT: 32.1970115° N (NAD 83) LONG: 103.6636815° W (NAD 83)



#### DIRECTIONS TO LOCATION

From the intersection of CR J-1 (Orla Rd.) and St. Hwy 128, Go East on St. Hwy 128 approx. 0.6 miles to a lease road on the right; Turn right and go South approx. 1.2 miles to lease road on the right; Turn right and go West approx. 0.2 miles to proposed location on the left.

I, Jeffrey L. Fansler, a N. M. Professional certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best follows:

Jeffred L. Fansler

308 W. BROADWAY ST., HOBBS, NM 88240

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SCALE: 1" = 200'DATE: 5-24-2018

	CHANGE PAD SHAPE	8-20-18			
	UPDATE PLAT	7-30-18			
NO.	REVISION	DATE			
100 110 101005070					

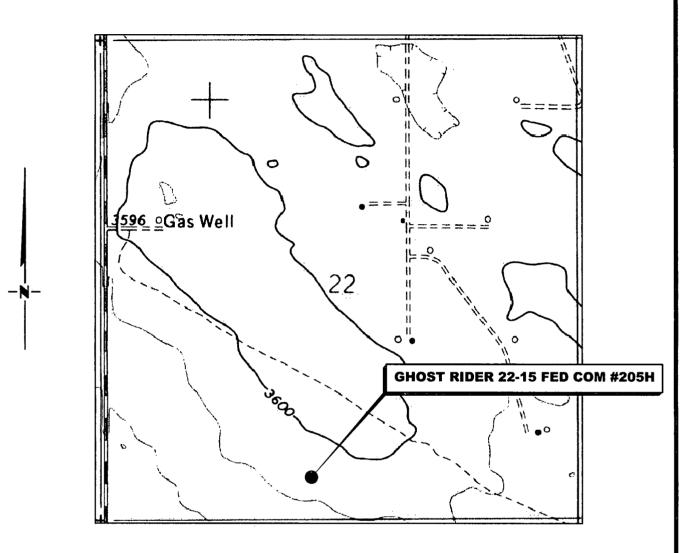
BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND.

200

JOB NO.: LS1805672 DWG. NO.: 1805672REC 205

	SURVEYED BY: AB/RU
-	DRAWN BY: JBT
	APPROVED BY: RMH
75) 964-8200	SHEET: 1 OF 1

## LOCATION VERIFICATION MAP



SECTION 22, TWP. 24 SOUTH, RGE. 32 EAST, N. M. P. M., LEA CO., NEW MEXICO

OPERATOR: <u>Apache Corporation</u>
LEASE: Ghost Rider 22-15 Fed com

WELL NO.: 205H ELEVATION: 3593'

LOCATION: 442' FSL & 2286' FWL CONTOUR INTERVAL: 10'

USGS TOPO. SOURCE MAP:

Paduca Breaks NW, NM (1973)

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NO. REVISION DATE
JOB NO.: LS1805672



SCALE: 1" = 1000'

DATE: 5-29-2018

SURVEYED BY: AB/BC

DRAWN BY: CAR

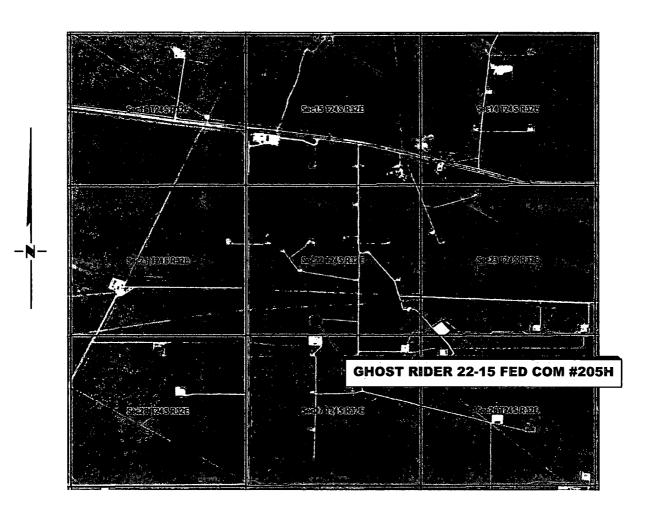
APPROVED BY: JLF

SHEET: 1 OF 1

DWG. NO.: 1805672LVM 205 308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

### VICINITY MAP

NOT TO SCALE



SECTION 22, TWP. 24 SOUTH, RGE. 32 EAST, N. M. P. M., LEA COUNTY, NEW MEXICO

LEASE: Ghost Rider 22-15 Federal Com ELEVATION: 3593'

WELL NO.: 205H

OPERATOR: Apache Corporation LOCATION: 442' FSL & 2286' FWL

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NO. REVISION DATE JOB NO.: LS1805672



DWG. NO.: 1805672VM 205 308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N / A DATE: 5-29-2018 SURVEYED BY: AB/BC DRAWN BY: CAR APPROVED BY: JLF SHEET: 1 OF 1

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

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

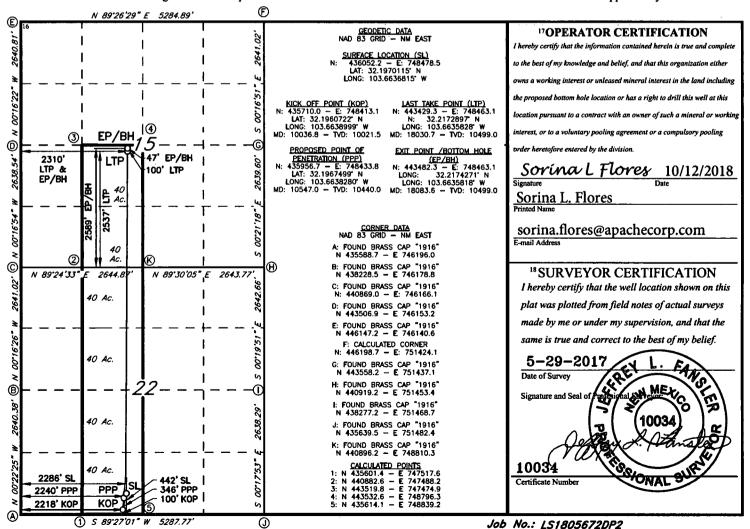
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

■ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

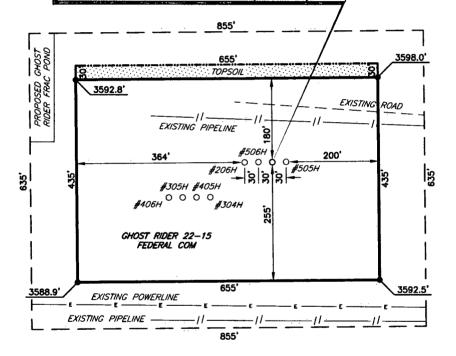
<sup>1</sup> API Number				<sup>2</sup> Pool Code		<sup>3</sup> Pool Name				
30-025-			97899			WILDCAT; BONESPRING				
						Well Number 205H				
<sup>7</sup> OGRID 1	NO.			AP	PACHE CORPORATION 9Elevation 3593'					
	-				10 Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/We	st line	County
N	22	24S	32E		442	SOUTH	2286	WES	ST	LEA
			11	Bottom H	ole Location	n If Different Fr	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
K	15	24S	32E		2589	SOUTH	2310	WES	ST	LEA
12 Dedicated Acres	13 Joint	or Infill 14 (	Consolidation	Code 15 C	Order No.	<u> </u>				
240										

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



APACHE CORPORATION
GHOST RIDER 22-15 FED COM #205H
(442' FSL & 2286' FWL)
SECTION 22, T24S, R32E
N. M. P. M., LEA CO., NEW MEXICO

GHOST RIDER 22-15 FEDERAL COM #205H ELEV.: 3593' LAT: 32.1970115° N (NAD 83) LONG: 103.6636815° W (NAD 83)



SCALE: 1" = 200'
0 100 200

BEARINGS ARE
NAD 83 GRID - NM EAST
DISTANCES ARE
GROUND.

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Jeffrey L. Vanaler
Jeffrey L. Fansler NM PS 10034

THE SONAL SURVINGE AND RESERVED

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SCALE: 1" = 200'

DATE: 5-24-2018
SURVEYED BY: AB/RU

NO. REVISION DATE
JOB NO.: LS1805672

DWG. NO.: 1805672\_205H



DRAWN BY: JBT

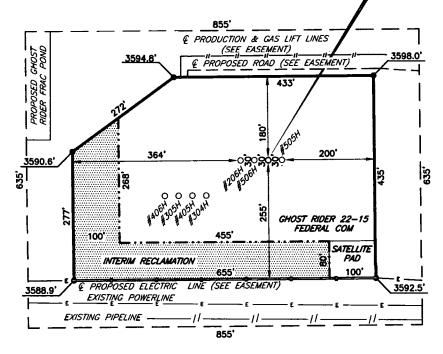
APPROVED BY: RMH

964–8200 SHEET: 1 OF 1

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

# APACHE CORPORATION GHOST RIDER 22-15 FEDERAL COM #205H (442' FSL & 2286' FWL) SECTION 22, T24S, R32E N. M. P. M., LEA CO., NEW MEXICO

GHOST RIDER 22-15 FEDERAL COM #205H ELEV.: 3593' LAT: 32.1970115' N (NAD 83) LONG: 103.6636815' W (NAD 83)



#### DIRECTIONS TO LOCATION

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Jeffrey L. Vanster Weffrey L. Fansler NM PS 10034 copyright 2016 - All Rights Reserved

SCALE: 1" = 200'

	CHANGE PAD SHAPE	8-20-18
	UPDATE PLAT	7-30-18
NO.	REVISION	DATE
JOB	NO.: 151805	672

DWG. NO.: 1805672REC 205

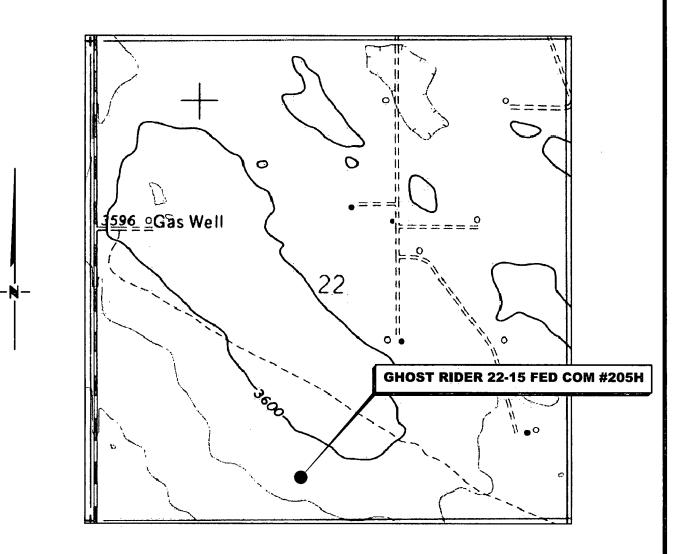
BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND.

RRC

DATE: 5-24-2018
SURVEYED BY: AB/RU
DRAWN BY: JBT
APPROVED BY: RMH
SHEET: 1 OF 1

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

## LOCATION VERIFICATION MAP



SECTION 22, TWP. 24 SOUTH, RGE. 32 EAST, N. M. P. M., LEA CO., NEW MEXICO

OPERATOR: Apache Corporation

LEASE: Ghost Rider 22-15 Fed com

WELL NO.: 205H

ELEVATION: 3593'

LOCATION: 442' FSL & 2286' FWL

CONTOUR INTERVAL:

USGS TOPO. SOURCE MAP:

Paduca Breaks NW, NM (1973)

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NO. REVISION DATE JOB NO.: LS1805672 DWG. NO.: 1805672LVM 205 308 W. BROADWAY ST., HOBBS, NM 88240

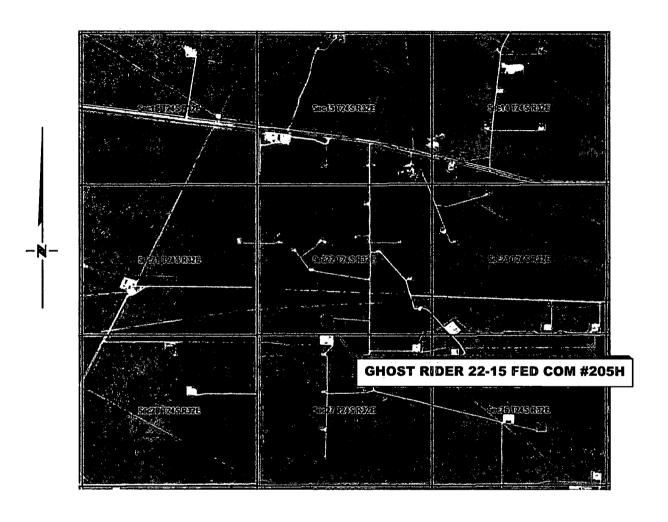


(575) 964-8200

SCALE: 1" = 1000' DATE: 5-29-2018 SURVEYED BY: AB/BC DRAWN BY: CAR APPROVED BY: JLF SHEET: 1 OF 1

## VICINITY MAP

NOT TO SCALE



SECTION 22, TWP. 24 SOUTH, RGE. 32 EAST, N. M. P. M., LEA COUNTY, NEW MEXICO

LEASE: Ghost Rider 22-15 Federal Com ELEVATION: 3593'

WELL NO.: 205H

OPERATOR: Apache Corporation LOCATION: 442' FSL & 2286' FWL

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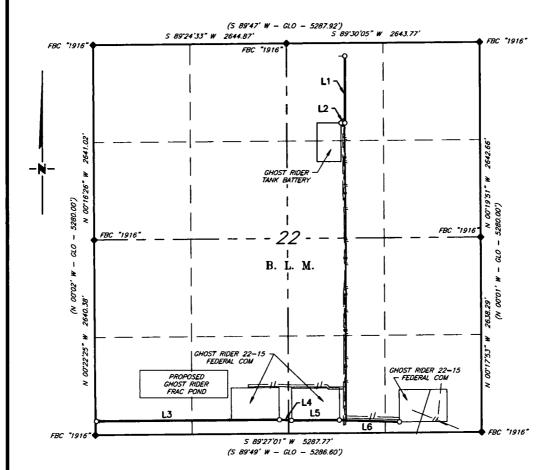
NO. REVISION DATE JOB NO.: LS1805672



DWG. NO.: 1805672VM 205 308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200 SCALE: N / A DATE: 5-29-2018 SURVEYED BY: AB/BC DRAWN BY: CAR APPROVED BY: JLF SHEET: 1 OF 1

#### APACHE CORPORATION GHOST RIDER 22-15 FEDERAL COM PROPOSED ELECTRIC LINE

SECTION 22, T24S, R32E N. M. P. M., LEA COUNTY, NEW MEXICO



LINE TABLE					
LINE	BEARING	LENGTH			
L1	S 00'00'02" E	906.60			
L2	N 89'57'53" W	51.94			

	LINE TABLE	•
LINE	BEARING	LENGTH
L3	N 89'27'02" E	2504.64'
L4	S 87'12'37" E	165.32
L5	N 89'35'57" E	655.17'
L6	S 88°26'57" E	821.70

1" = 1000" 500 1000

BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND.

LEGEND

RECORD DATA - GLO

FOUND MONUMENT AS NOTED

ELECTRIC LINE

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my

knowledge and belief. NM PS 10034



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NO. REVISION DATE JOB NO.: LS1708502 DWG. NO.: 1708502E

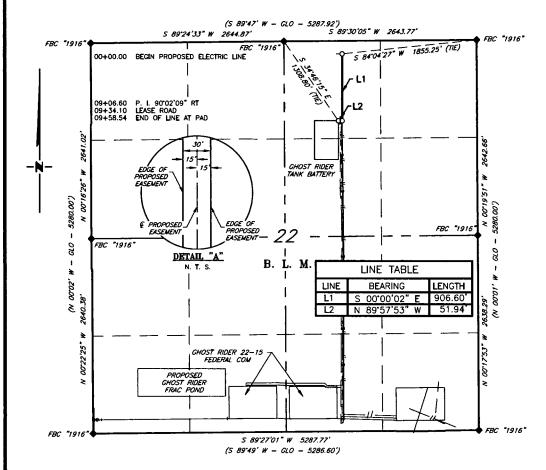


308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000 DATE: 06/26/18 SURVEYED BY: AB/BC DRAWN BY: JET APPROVED BY: JLF SHEET: 1 OF 3

#### APACHE CORPORATION GHOST RIDER 22-15 FEDERAL COM PROPOSED ELECTRIC LINE **SECTION 22, T24S, R32E**

N. M. P. M., LEA COUNTY, NEW MEXICO



#### DESCRIPTION

A strip of land 30 feet wide, being 958.54 feet or 58.093 rods in length, lying in Section 22, Township 24 South, Range 32 East, N. M. P. M., Lea County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land:

BEGINNING at Engr. Sta. 0+00, a point in the Northeast quarter of Section 22, which bears, S 84'04'27" W, 1,855.25 feet from a brass cap, stamped "1916", found for the Northeast corner of Section 22;

Thence, S 00'00'02" E, 906.60 feet, to Engr. Sta. 09+06.60, a P. I. of 90'02'09" right;

Thence, N 89°57'53" W, 51.94 feet, to Engr. Sta. 09+58.54, the End of Survey, a point in the Northeast quarter of Section 22, which bears, S 34"46"15" E, 1,308.80 feet from a brass cap, stamped "1916", found for the North quarter corner of Section 22.

58.093 Rods

0.660 Acres

Said strip of land contains 0.660 acres, more or less, and is allocated by forties as follows:

NW 1/4 NE 1/4 1" = 1000" 1000 BEARINGS ARE GRID NAO 83 NAV EAST DISTANCES ARE MORIZ. GROUND. I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief. LEGEND RECORD DATA - GLO Jeffrey L. Fansler Vanater FOUND MONUMENT AS NOTED ELECTRIC LINE NM PS 10034

REVISION JOB NO.: LS1708502

DWG. NO.: 1708502E

SCALE: 1" = 1000 DATE: 06/26/18 SURVEYED BY: AB/BC DRAWN BY: JBT APPROVED BY: JLF SHEET: 2 OF 3

SS/ONAL SU

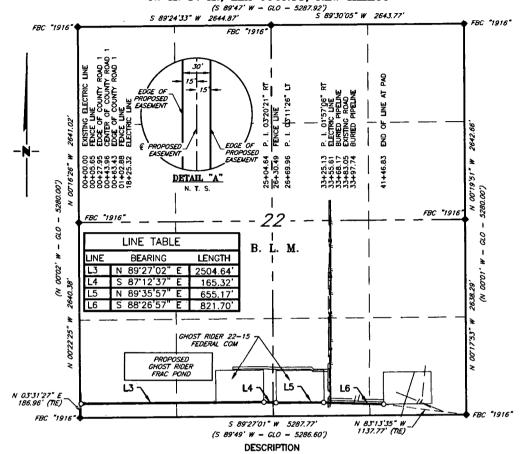
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308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

#### APACHE CORPORATION GHOST RIDER 22-15 FEDERAL COM PROPOSED ELECTRIC LINE

SECTION 22, T24S, R32E

N. M. P. M., LEA COUNTY, NEW MEXICO



A strip of land 30 feet wide, being 4,146.83 feet or 251.323 rods in length, lying in Section 22, Township 24 South, Range 32 East, N. M. P. M., Lea County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land:

BEGINNING at Engr. Sta. 0+00, a point in the Southwest quarter of Section 22, which bears, N 03'31'27" E, 186.96 feet from a brass cap, stamped "1916", found for the Southwest corner of Section 22;

Thence, N 89°27'02" E, 2,504.64 feet, to Engr. Sta. 25+04.64, a P. I. of 03°20'21" right; Thence, S 87°12'37" E, 165.32 feet, to Engr. Sta. 26+69.96, a P. I. of 03°11'26" left;

Thence, N 89°35'57" E, 655.17 feet, to Engr. Sta. 33+25.13, a P. I. of 01°57'06" right;

Thence, S 88°26'57" E, 821.70 feet, to Engr. Sta. 41+46.83, the End of Survey, a point in the Southeast quarter of Section 22, which bears, N 83°13'35" W, 1,137.77 feet from a brass cap, stamped "1916", found for the Southeast corner of Section 22.

Said strip of land contains 2.856 acres, more or less, and is allocated by forties as follows:

1" = 1000" 500 1000

BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND.

LEGEND

RECORD DATA - GLO

FOUND MONUMENT AS NOTED

ELECTRIC LINE

SW 1/4 SW 1/4 SE 1/4 SW 1/4 SW 1/4 SE 1/4 SE 1/4 SE 1/4

79.358 Rods 80.130 Rods 80.140 Rods 11.695 Rods

0.902 Acres 0.910 Acres 0.911 Acres 0.133 Acres

I, Jeffrey L. Fansler, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my

knowledge and belief.

Deffley L. Fansler Vanster NM PS 10034



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REVISION DATE JOB NO.: LS1708502

DWG. NO.: 1708502E



SCALE: 1" = 1000' DATE: 06/26/18 SURVEYED BY: AB/BC DRAWN BY: JBT APPROVED BY: JLF SHEET: 3 OF 3

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200



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

## PWD Data Report

#### Section 1 - General

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

#### **Section 2 - Lined Pits**

Would you like to utilize Lined Pit PWD options? NO

**Produced Water Disposal (PWD) Location:** 

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

**Lined pit Monitor description:** 

**Lined pit Monitor attachment:** 

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

### Section 3 - Unlined Pits

PWD surface owner:

injection well mineral owner:

Injection PWD discharge volume (bbl/day):

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Unlined pit PWD on or off channel:	
Unlined pit PWD discharge volume (bbl/day):	
Unlined pit specifications:	
Precipitated solids disposal:	
Decribe precipitated solids disposal:	
Precipitated solids disposal permit:	
Unlined pit precipitated solids disposal schedule:	
Unlined pit precipitated solids disposal schedule attachment:	
Unlined pit reclamation description:	
Unlined pit reclamation attachment:	
Unlined pit Monitor description:	
Unlined pit Monitor attachment:	
Do you propose to put the produced water to beneficial use?	
Beneficial use user confirmation:	
Estimated depth of the shallowest aquifer (feet):	
Does the produced water have an annual average Total Dissolve that of the existing water to be protected?	ed Solids (TDS) concentration equal to or less than
TDS lab results:	
Geologic and hydrologic evidence:	
State authorization:	
Unlined Produced Water Pit Estimated percolation:	
Unlined pit: do you have a reclamation bond for the pit?	
Is the reclamation bond a rider under the BLM bond?	
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
Would you like to utilize Injection PWD options? NO	
Produced Water Disposal (PWD) Location:	

PWD disturbance (acres):

· '	
Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	
UIC Permit attachment:	
Section 5 - Surface Discharge	
Would you like to utilize Surface Discharge PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Surface discharge PWD discharge volume (bbl/day):	
Surface Discharge NPDES Permit?	
Surface Discharge NPDES Permit attachment:	
Surface Discharge site facilities information:	
Surface discharge site facilities map:	
Section 6 - Other	
<u> </u>	
Would you like to utilize Other PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Other PWD discharge volume (bbl/day):	
Other PWD type description:	
Other PWD type attachment:	
Have other regulatory requirements been met?	
Other regulatory requirements attachment:	



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

## Bond Info Data Report

#### **Bond Information**

Federal/Indian APD: FED

**BLM Bond number: NMB000736** 

**BIA Bond number:** 

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

**BLM** reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

**Reclamation bond amount:** 

**Reclamation bond rider amount:** 

Additional reclamation bond information attachment: