# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME: | CIMAREX ENERGY COMPANY** 

**LEASE NO.: | NMNM0001917** 

WELL NAME & NO.: | 7H- DOS EQUIS 12 FEDERAL COM

SURFACE HOLE FOOTAGE: | 330'/N & 200'/W BOTTOM HOLE FOOTAGE | 330'/S & 1270'/W

LOCATION: Section.12.,T24S., R.32E., NMP

**COUNTY: LEA County, New Mexico** 

COA

H2S	← Yes	€ No	
Potash	• None	○ Secretary	C R-111-P
Cave/Karst Potential	ে Low		↑ High
Variance	None	• Flex Hose	Other
Wellhead	Conventional	Multibowl	Both
Other	□ 4 String Area	Capitan Reef	□ WIPP

## A. Hydrogen Sulfide

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

#### **B. CASING**

- 1. The 13-3/8 inch surface casing shall be set at approximately 1235 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - 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.

# Operator shall filled 1/3<sup>rd</sup> casing with fluid while running intermediate casing to maintain collapse safety factor.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Additional cement maybe required.
     Excess calculates to 17%.

#### 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.

# **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 CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
  - ✓ Lea CountyCall 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 (one log per well pad is acceptable) run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### A. CASING

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

Page 3 of 6

- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

#### **B. PRESSURE CONTROL**

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

Page 4 of 6

- 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.
  - Manufacturer representative shall install the test plug for the initial BOP test.
  - d. 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.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
  - c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.
  - 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.

Page 5 of 6

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. 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.
- f. 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. This test shall be performed prior to the test at full stack pressure.
- g. 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.

#### Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

#### ZS 110118

Page 6 of 6

# PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME: CIMAREX ENERGY COMPANY
LEASE NO.: NMNM0001917
WELL NAME & NO.: 7H- DOS EQUIS 12 FEDERAL COM
SURFACE HOLE FOOTAGE: 330'/N & 200'/W
BOTTOM HOLE FOOTAGE 330'/S & 1270'/W
LOCATION: Section.12.,T24S., R.32E., NMP
COUNTY: LEA County, New Mexico

#### 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
Below Ground-level Abandoned Well Marker
Hydrology
Range
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
<b>☐</b> Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
☐ Interim Reclamation
Final Abandonment & Reclamation

#### I. GENERAL PROVISIONS

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

#### II. PERMIT EXPIRATION

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

#### III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural 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 12

## V. SPECIAL REQUIREMENT(S)

#### <u>Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:</u>

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.

Below Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

#### 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**

#### Tank Battery:

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

## Surface Pipeline:

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.

## Range

The operator must contact the allotment holder prior to construction to identify the location of the pipeline. The operator must take measures to protect the pipeline from compression or other damages. If the pipeline is damaged or compromised in any way near the proposed project as a result of oil and gas activity, the operator is responsible for repairing the pipeline immediately. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

#### 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 12

#### **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**

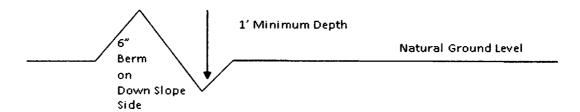
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

#### 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: 
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

#### Cattle guards

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

#### **Fence Requirement**

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

#### **Public Access**

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

## **Construction Steps**

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

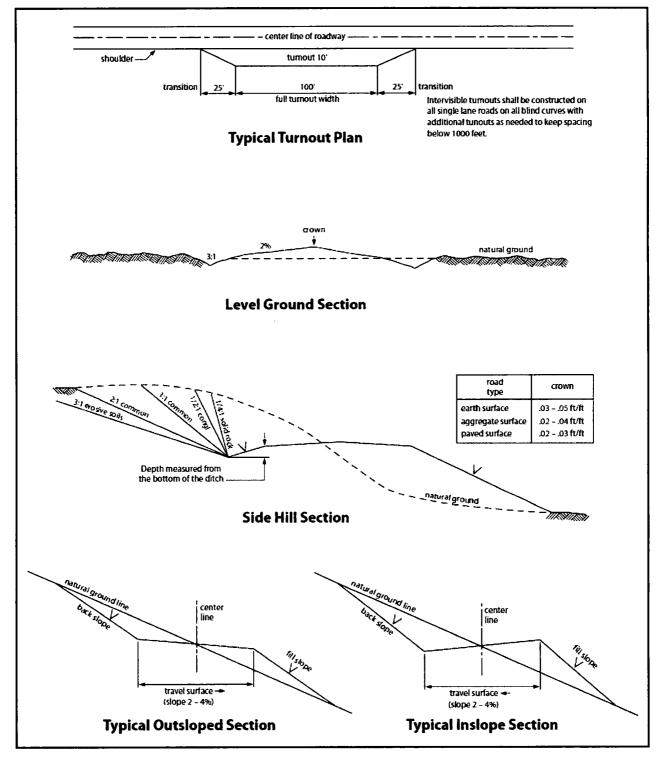


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

## 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**

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
- C. ELECTRIC LINES

#### 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.

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.

Page 10 of 12

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).

Below 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 11 of 12

### 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

## Hydrogen Sulfide Drilling Operations Plan

#### Dos Equis 12 Federal Com 7H

Cimarex Energy Co. UL: A, Sec. 12, 24S, 32E Lea Co., NM

# 1 All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:

- A. Characteristics of H<sub>2</sub>S
- B. Physical effects and hazards
- C. Principal and operation of H2S detectors, warning system and briefing areas.
- D. Evacuation procedure, routes and first aid.
- E. Proper use of safety equipment & life support systems
- F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

#### H<sub>2</sub>S Detection and Alarm Systems:

- A. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may play placed as deemed necessary.
- B. An audio alarm system will be installed on the derrick floor and in the top doghouse.

#### 3 Windsock and/or wind streamers:

- A. Windsock at mudpit area should be high enough to be visible.
- В.

Windsock on the rig floor and / or top doghouse should be high enough to be visible.

#### 4 Condition Flags and Signs

- A. Warning sign on access road to location.
- B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H₂S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

#### 5 Well control equipment:

A. See exhibit "E-1"

#### 6 Communication:

- A. While working under masks chalkboards will be used for communication.
- B. Hand signals will be used where chalk board is inappropriate.
- C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

#### 7 Drillstem Testing:

No DSTs r cores are planned at this time.

- 8 Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

# H<sub>2</sub>S Contingency Plan

#### Dos Equis 12 Federal Com 7H

Cimarex Energy Co. UL: A, Sec. 12, 24S, 32E Lea Co., NM

#### **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 432-620-1975
- « Take precautions to avoid personal injury during this operation.
- « Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- « Have received training in the:
  - Detection of H₂S, and
  - · Measures for protection against the gas,
  - · Equipment used for protection and emergency response.

#### **Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (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 there is an ignition of the gas.

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

Please see attached International Chemical Safety Cards.

#### **Contacting Authorities**

Cimarex Energy Co. of Colorado's personnel must liaise 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. Cimarex Energy Co. of Colorado's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

# H₂S Contingency Plan Emergency Contacts Dos Equis 12 Federal Com 7H

Cimarex Energy Co. UL: A, Sec. 12, 24S, 32E Lea Co., NM

Cimarex Energy Co. of Colorado		800-969-4789		
Co. Office and After-Hours Men	<u>u</u>			
Key Personnel				
Name	Title	Office		Mobile
Larry Seigrist	Drilling Manager	432-620-1934		580-243-8485
Charlie Pritchard	Drilling Superintendent	432-620-1975		432-238-7084
Roy Shirley	Construction Superintendent	· · · · · · · · · · · · · · · · · · ·		432-634-2136
Artesia				
Ambulance		911		
State Police		575-746-2703		
City Police		575-746-2703		
Sheriff's Office		575-746-9888		
Fire Department		575-746-2701		
Local Emergency Planning Co		575-746-2122		
New Mexico Oil Conservation	n Division	575-748-1283		
<u>Carlsbad</u>				
Ambulance		911		
State Police		575-885-3137		
City Police		575-885-2111		
Sheriff's Office		575-887-7551		
Fire Department		575-887-3798		
Local Emergency Planning Co	mmittee	575-887-6544		
US Bureau of Land Managem	ent	575-887-6544		
Santa Fe				
New Mexico Emergency Resp	onse Commission (Santa Fe)	505-476-9600		
	oonse Commission (Santa Fe) 24 Hrs	505-827-9126		
New Mexico State Emergenc		505-476-9635		
National				
National Emergency Respons	e Center (Washington, D.C.)	800-424-8802		
<u>Medical</u>				
Flight for Life - 4000 24th St.;	Lubbock, TX	806-743-9911		
Aerocare - R3, Box 49F; Lubb		806-747-8923		
	le Blvd S.E., #D3; Albuquerque, NM	505-842-4433		
	rk Carr Loop S.E.; Albuquerque, NM	505-842-4949		
<u>Other</u>				
Boots & Coots IWC		800-256-9688	or	281-931-8884
Cudd Pressure Control		432-699-0139	or	432-563-3356
Halliburton		575-746-2757		
B.J. Services		575-746-3569		

#### **Schlumberger**

#### Cimarex Dos Equis 12-13 Federal Com 7H Rev0 28Nov17 Proposal **Geodetic Report**



(Non-Def Plan)

November 28, 2017 - 11:12 AM Report Date: Client:

NM Lea County (NAD 83) Field:

Vertical Section Origin: Cimarex Dos Equis 12-13 Federal Com 7H / Cimarex Dos Equis 12-13 TVD Reference Datum:

Structure / Slot:

Well: Cimarex Dos Equis 12-13 Federal Com 7H

Original Borehole Boreho

UWI / API#: Unknown / Unknown

Survey Name: Cimarex Dos Equis 12-13 Federal Com 7H Rev0 28Nov17

Survey Date: Tort / AHD / DDI / ERD Ratio: November 28, 2017 104.852 ° / 5670.891 ft / 5.925 / 0.525

NADB3 New Mexico State Plane, Eastern Zone, US Feet N 32" 14' 18.79651", W 103" 37' 13.56353" N 451251.230 RUS, E 761756.070 RUS Coordinate Reference System:

Location Lat / Long: Location Grid N/E Y/X:

CRS Grid Convergence Angle: Grid Scale Factor: 0.3803 ° 0.99996473

Version / Patch: 2.10.565.0 Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin:

TVD Reference Elevation: Seabed / Ground Elevation: Magnetic Declination: Total Gravity Field Strength: Gravity Model:

Total Magnetic Field Strength: Magnetic Dip Angle: Declination Date:

Magnetic Declination Model: North Reference: Grid Convergence Used: Total Corr Mag North->Grid

Local Coord Referenced To:

Minimum Curvature / Lubinski 180.000 ° (Grid North)

0.000 ft, 0.000 ft

RKB

3631.800 ft above MSL 3607.800 ft above MSL

6 845 °

998.4387mgn (9.80665 Based)

GARM 48083.442 nT

59.977 ° November 28, 2017 HDGM 2017

Grid North 0.3803 ° 6 4643 °

Structure Reference Point

Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
	(ft)		(°)	(ft)	(ft)	<u>(ft)</u>	(ft)	(°/1,00ft)	(ftUS)	(RUS)	(N/S ° ' ")	(E/W "")
SHL [330' FNL, 200' FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	451251.23	761756.07 N	32 14 18,80 W	/ 103 37 13.56
	100.00	0.00	270.00	100.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	I 32 14 18.80 W	/ 103 37 13.56
	200.00	0.00	270.00	200.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	I 32 14 18.80 W	/ 103 37 13.56
	300.00	0.00	270.00	300.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	32 14 18.80 W	/ 103 37 13.56
	400.00	0.00	270.00	400.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	32 14 18.80 W	/ 103 37 13.56
	500.00	0.00	270.00	500.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	32 14 18.80 W	/ 103 37 13.56
	600.00	0.00	270.00	600.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	32 14 18.80 W	/ 103 37 13.56
	700.00	0.00	270.00	700.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	32 14 18.80 W	/ 103 37 13.56
	800.00	0.00	270.00	800.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	32 14 18.80 W	/ 103 37 13.56
	900.00	0.00	270.00	900.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	32 14 18.80 W	/ 103 37 13.56
•	1000.00	0.00	270.00	1000.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	32 14 18,80 W	/ 103 37 13.56
	1100.00	0.00	270.00	1100.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	I 32 14 18.80 W	/ 103 37 13.56
Rustler	1185.00	0.00	270.00	1185.00	0.00	0.00	0.00	0.00	451251.23	781758.07 N	32 14 18.80 W	103 37 13.58
	1200.00	0.00	270.00	1200.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	I 32 14 18.80 W	/ 103 37 13.56
	1300.00	0.00	270.00	1300.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	32 14 18,80 W	/ 103 37 13,56
	1400.00	0.00	270.00	1400.00	0.00	0.00	0.00	0.00	451251.23	761756.07 N	I 32 14 18.80 W	/ 103 37 13.56
Salado (Top												
Salt)	4500.00	0.00	270.00	1500.00	0.00	0.00	0.00	0.00	451251.23	70475007 1	32 14 18.80 W	400 07 40 56
Nudge 2°/100'	1500.00	0.00	270.00	1500.00	0.00	0.00	0.00	0.00	451251.23	/01/30.0/ N	32 14 10.00 V	1 103 37 13.56
DLS												
	1600.00	2.00	270.00	1599.98	0.00	0.00	-1.75	2.00	451251.23	761754.32 N	I 32 14 18.80 W	/ 103 37 13.58
	1700.00	4.00	270.00	1699.84	0.00	0.00	-6.98	2.00	451251.23	761749.09 N	I 32 14 18.80 W	/ 103 37 13.64
	1800.00	6.00	270.00	1799.45	0.00	0.00	-15.69	2.00	451251.23	761740.38 N	I 32 14 18.80 W	/ 103 37 13.75
Hold Nudge	1871.29	7.43	270.00	1870.25	0.00	0.00	-24.03	2.00	451251.23	761732.04 N	32 14 18.80 W	/ 103 37 13.84
·	1900.00	7.43	270.00	1898.72	0.00	0.00	-27.74	0.00	451251.23	761728.33 N	32 14 18.80 W	/ 103 37 13.89
	2000.00	7.43	270.00	1997.88	0.00	0.00	-40.66	0.00	451251.23	761715.41 N	I 32 14 18.80 W	/ 103 37 14.04

Comments	MD (ft)	inci (°)	Azim Grid	TVD (ft)	VSEC (ft)	NS (R)	EW (ft)	DLS (*/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	2100.00	7.43	270.00	2097.04	0.00	0.00	-53.59	0,00	451251.23		N 32 14 18.80 V	
	2200.00	7.43	270.00	2196.20	0.00	0.00	-66.51	0.00	451251.23		N 32 14 18.80 \	
	2300.00	7.43	270.00	2295.37	0.00	0.00	-79.43	0.00	451251.23	761676.64	N 32 14 18.80 V	N 103 37 14.49
	2400.00	7.43	270.00	2394.53	0.00	0.00	-92.36	0.00	451251.23	761663.72	N 32 14 18.80 V	N 103 37 14.64
	2500.00	7.43	270.00	2493.69	0.00	0,00	-105.28	0.00	451251.23	761650.79	N 32 14 18.80 \	N 103 37 14.79
	2600.00	7.43	270.00	2592.85	0.00	0.00	-118.21	0.00	451251.23	761637.87	N 32 14 18.80 \	N 103 37 14.94
	2700.00	7.43	270.00	2692.01	0.00	0.00	-131.13	0.00	451251.23	761624.94	N 32 14 18.81 \	N 103 37 15.09
	2800.00	7.43	270.00	2791.17	0.00	0.00	-144.06	0.00	451251.23		N 32 14 18.81 \	
	2900.00	7.43	270.00	2890.33	0.00	0.00	-156.98	0.00	451251.23		N 32 14 18.81 \	
	3000.00	7.43	270.00	2989.50	0.00	0.00	-169.90	0.00	451251.23		N 32 14 18.81 \	
	3100.00	7.43	270.00	3088.66	0.00	0.00	-182.83	0.00	451251.23		N 32 14 18.81 \	
	3200.00	7.43	270.00	3187.82	0.00	0.00	-195.75	0.00	451251.23		N 32 14 18.81 \	
	3300.00	7.43	270.00	3286.98	0.00	0.00	-208.68	0.00	451251.23		N 32 14 18.81 \	
	3400.00	7.43	270.00	3386.14	0.00	0.00	-221.60	0.00	451251.23		N 32 14 18.81 \	
	3500.00	7.43	270.00	3485.30	0.00	0.00	-234.52	0.00	451251.23		N 32 14 18.81 \	
	3600.00	7.43	270.00	3584.46	0.00	0.00	-247.45	0.00	451251.23		N 32 14 18.81 \	
	3700.00	7.43	270.00	3683.62	0.00	0.00	-260.37	0.00	451251.23		N 32 14 18.81 \	
	3800.00	7.43	270.00	3782.79	0.00	0.00	-273.30	0.00	451251.23		N 32 14 18.81 \	
	3900.00	7.43	270.00	3881.95	0.00 0.00	00,0 00.0	-286.22	0.00 0.00	451251.23 451251.23		N 32 14 18.82 \ N 32 14 18.82 \	
	4000.00	7.43 7.43	270.00 270.00	3981.11 4080.27	0.00	0.00	-299.15 -312.07	0.00	451251.23		N 32 14 18.82 \	
	4100.00	7.43 7.43	270.00	4179.43	0.00	0.00	-312.07	0.00	451251.23		N 32 14 18.82 \	
	4200.00 4300.00	7.43 7.43	270.00	4278.59	0.00	0.00	-337.92	0.00	451251.23		N 32 14 18.82 \	
	4400.00	7.43	270.00	4377.75	0.00	0.00	-350.84	0.00	451251.23		N 32 14 18.82 \	
	4500.00	7.43	270.00	4476.91	0.00	0.00	-363.77	0.00	451251.23		N 32 14 18.82 1	
	4600.00	7.43	270.00	4576.08	0.00	0.00	-376.69	0.00	451251.23		N 32 14 18.82 \	
Base of Salt	4674.55	7.43	270.00	4650.00	0.00	0.00	-386.33	0.00	451251.23		N 32 14 18.82 V	
Dado or Can	4700.00	7.43	270.00	4675.24	0.00	0.00	-389.62	0.00	451251.23		N 32 14 18.82 V	
	4800.00	7.43	270.00	4774.40	0.00	0.00	-402.54	0.00	451251.23		N 32 14 18.82 1	
	4900.00	7.43	270.00	4873.56	0.00	0.00	-415.46	0.00	451251.23		N 32 14 18.82 1	
Delaware Sands	4946.83	7.43	270.00	4920.00	0.00	0.00	-421.52	0.00	451251.23	761334.57	N 32 14 18.82 I	N 103 37 18.47
•=	5000.00	7.43	270.00	4972.72	0.00	0.00	-428.39	0.00	451251.23	761327.70	N 32 14 18.82 1	W 103 37 18.55
	5100.00	7.43	270.00	5071.88	0.00	0.00	-441.31	0.00	451251.23	761314.77	N 32 14 18.83 1	N 103 37 18.70
	5200.00	7.43	270.00	5171.04	0.00	0.00	-454.24	0.00	451251.23	761301.85	N 32 14 18.83 1	W 103 37 18.85
	5300.00	7.43	270.00	5270.21	0.00	0.00	-467.16	0.00	451251.23		N 32 14 18.83 1	
	5400.00	7.43	270.00	5369.37	0.00	0.00	-480.08	0.00	451251.23	761276.00	N 32 14 18.83 1	W 103 37 19.15
	5500.00	7.43	270.00	5468.53	0.00	0.00	-493.01	0.00	451251.23		N 32 14 18.83 1	
	5600.00	7.43	270.00	5567.69	0.00	0.00	-505.93	0.00	451251.23		N 32 14 18.83 \	
	5700.00	7.43	270.00	5666.85	0.00	0.00	-518.86	0.00	451251.23		N 32 14 18.83	
	5800.00	7.43	270.00	5766.01	0.00	0.00	-531.78	0.00	451251.23		N 32 14 18.83 1	
	5900.00	7.43	270.00	5865.17	0.00	0.00	-544.71	0.00	451251.23		N 32 14 18.83	
	6000.00	7.43	270.00	5964.33	0.00	0.00	-557.63	0.00	451251.23		N 32 14 18.83	
	6100.00	7.43	270.00	6063.50	0.00	0.00	-570.55	0.00	451251.23		N 32 14 18.83	
	6200.00	7.43	270.00	6162.66	0.00	0.00	-583.48	0.00	451251.23		N 32 14 18.83	
	6300.00	7.43	270.00	6261.82	0.00	0.00	-596.40	0.00	451251.23		N 32 14 18.84	
	6400.00	7.43	270.00	6360.98	0.00	0.00	-609,33	0.00	451251.23		N 32 14 18.84	
	6500.00	7.43	270.00	6460.14	0.00	0.00	-622.25	0.00	451251.23		N 32 14 18.84	
	6600.00	7.43	270.00	6559.30	0.00	0.00	-635.18	0.00	451251.23		N 32 14 18.84 1	
	6700.00	7.43	270.00	6658.46	0.00	0.00	-648.10	0.00 0.00	451251.23 451251.23		N 32 14 18.84 1 N 32 14 18.84 1	
	6800.00	7.43	270.00	6757.62	0.00	0.00 0.00	-661.02	0.00	451251.23		N 32 14 18.84	
	6900.00	7.43 7.43	270.00 270.00	6856.79 6955.95	0.00 0.00	0.00	-673.95 -686.87	0.00	451251.23 451251.23		N 32 14 18.84 1	
	7000.00	7.43 7.43	270.00 270.00	7055.11	0.00	0.00	-699.80	0.00	451251.23		N 32 14 18.84 1	
	7100.00	7.43 7.43	270.00 270.00	7055.11 7154.27	0.00	0.00	-712.72	0.00	451251.23		N 32 14 18.84 1	
	7200.00	7.43 7.43	270.00 270.00	7253.43	0.00	0.00	-712.72 -725.64	0.00	451251.23 451251.23		N 32 14 18.84 1	
	7300.00	7.43 7.43	270.00 270.00	7253.43 7352.59	0.00	0.00	-725.64 -738.57	0.00	451251.23		N 32 14 18.84 1	
	7400.00 7500.00	7.43 7.43	270.00	7352.59 7451.75	0.00	0.00	-736.57 -751.49	0.00	451251.23		N 32 14 18.85	
	7600.00	7.43	270.00	7550.92	0.00	0.00	-764.42	0.00	451251.23		N 32 14 18.85	
	00,0001	7.43	270,00	1000.82	0.00	0.00	-104.42	0.00	401201.23	100881.00	14 JZ 14 10.00	

3 N 32 14 1.66 W 103 37 25.83			-1042.48	SE.8671-	1738.32	00.00801	180.00	00.08	12400.00	
3 N 32 14 2.65 W 103 37 25.83			-1042.48	-1638.32	1638.32	00.00801	00.081	00.06	12300.00	
3 N 32 TE 3.64 W 103 37 25.82			-1042.48	-1538.3Z	1538.32	00.00801	180,00	00.08	12200.00	
18.32 TE SOLW 19.3 AT 12.0 W E			-1042,48	ZE.8641-	1438.32	10800.00	180,00	00.08	12100.00	
0 32 14 5.67 W 103 37 25.80			-1042.48	ZE.88E1-	1338.32	10800.00	180.00	00.08	12000.00	
3 N 32 14 6.61 W 103 37 25.80			84,5401-	-1238.32	1238.32	10800.00	180.00	00.08	11900.00	
87.32 TE 501 W 00.7 PI SE N 6			94,2401-	-1138.32	1138.32	00.00801	180.00	00.08	00.00811	
77.25.76.601 W 85.8 41.55 N 6 87.35.76.601 W 85.8 41.55 N 6			94.2401-	-1038.32	1038.32	00.00801	180.00	00.08	00.00711	
37.35.76.601 W 73.01 b1 SE N E			-1042.48	-938,32	938.32	00.00801	180.00	00.08	00.00911	
87 35 75 501 W 32 11 41 SE W 5			84.2401.	ZC:868-	\$5.858	10800.00	180.00	00.08	00.00211	
37.32.76.501 W 33.11 M 55 W 6			84.S401-	S6.868- S6.867-	SE.8E8 SE.8ET	00.00801 00.00801	00.081 00.081	00'06 00'06	11400.00	
3 N 32 14 13 54 W 103 37 25.74			-1042,48	26.868-	SE.8E8 SF 8F8	00.00801	00.081	00.08	11200.00	
4 32 75 500 W 14.14 W 55 75.74			84.S401-	84.774-	34.774 55.953	1000000	00.081	00.08	41.395114	Landing Point
5 N 32 14 14.53 W 103 37 25.73			84.5401-	95.85b-	96.864	04.88701	00.081	05.28	00.00111	triog paibae I
E7.32 TE 601 W 10.31 M SE N E			84.S401-	85.046-	340.28	18.61101	00.081	05.57	00.00011	
3 N 32 14 16.41 W 103 37 25.72			-1042.48	02.84S-	248.20	10741.35	180.00	05.13	00.00601	
17.25 TE SOI W SS.71 M SE N E			-1042.48	51.881-	61.331	53.48801	00.081	49.30	00.00801	
			Carlo Carlo Carlo			S Constitute	V min	Total Co	21 P. Washing &	are James Statutes
préferencementaire de s	mignet thing	nais and a	10,770	The Marks	ATTE			N. Wildle	<b>"工程和联邦队"</b> 。	ous nois
17.35 TE 601 W 09.71 A1 SE N E			84.S401-	79.76-	79.78	68,11,801	180.00	05.75	10700.00	
3 N 32 14 18.41 W 103 37 25.70			-1042.48	18.24-	18.34	10526.60	00.081	25.30	10600.00	
3 N 32 TE 601 W 47.81 41 SE N 8			-1042,48	12.81	12.81	10432.40	180.00	13.30	10500.00	
OT. 35 TE EOF W 88.81 AT SE N &			-1042,48	ZI 0-	0.12	96.66601	180.00	1.30	10400.00	
3 N 32 14 18.86 W 103 37 25.70			-1042.48	00.0	00.0	10322.54	270.00	00.0	10389.14	15.\100. DF2
07.35.76 E01 W 88.81 A1 SE W E			94.2401-	00.0	00.0	98.88201	00.072	00.0	00.00501	KOP - Build
3 N 32 14 18.86 W 103 37 25.70			84.S401-	00.0	00.0	10133.39	00.072	00.0	10200.00	
07.35 TE 501 W 38.81 M SE N E			84.5401-	00.0	00.0	10033.39	270.00	00.0	10100.00	
07 30 75 501 W 38 81 M 55 14 5	9 51 7097 50 190	131 000	BA CAOT-	uo o	000	10033 30	00 026	00 0	10100 00	Sand
07.32 TE EO! W 88.81 AT SE N E	3.61.7007 ES.13.63	0.00	-1042.48	00.0	00.0	00'9888	270.00	00.0	18,18001	1st Bone Spring
07.25 TE 601 W 88.81 A1 SE N E	8.E17087 ES.13.6	154 00.0	-1042.48	00.0	00.0	8933'38	270.00	00.0	10000.00	
07.25 TE 501 W 88.81 41 SE N 5	8.E17087 ES.13.6	2.00 451	-1042.48	00.0	00.0	92.0788	00.072	00.0	98.9566	PIOH
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07.32 TE EO1 W 88.81 41 SE W 7.	8.51.7037 62.13.8	2.00 451	-1042.24	00.0	00.0	96.5E88	270.00	47.0	00.0066	МОН
0 N 32 14 18,86 W 103 37 25,66			12,9501- 1039.24							ЫОН
	9.81.23 £2.182	2.00 451		00.0	00.0	<b>66.6689</b>	270.00	₽ <b>7</b> .0	00.0066	Мон
89.25.76.80 W 103.37.25.66	A.EST007 ES.182 9.017007 ES.182	2.00 451	1039.21	00.0	00.0 00.0	44.EE78 9E.EE88	00.07S 00.07S	47.S 47.0	00.0086	
83.85 TE EO! W 88.81 Þ! SE N S 88.85 TE EO! W 88.81 Þ! SE N O	A.EST000T ES.123 A.EST000T ES.123 B.01T000T ES.125	2.00 451 2.00 451 2.00 451	1039.69	00.0 00.0 00.0	00.0 00.0 00.0	9833.868 94.8679 98.383.39	00.07S 00.07S 00.07S	47.4 47.2 47.0	00.007e 00.008e 00.00ee	5./100. DF2
24.25 TE EOI W 88.81 AT SE N 8.74.25 TE EOI W 88.81 AT SE N 1.62.35 TE EOI W 88.81 AT SE N 5.69.35 TE EOI W 88.81 AT SE N 0.80.25 TE EOI W 88.81 TE	8.1257.037 ES.123 6.257.037 ES.132 6.257.037 ES.132 6.31.7037 ES.132	0.00 120 0.00 120 120 120 120 120	24.8101- 07.5201- 69.5601- 15.6601-	00.0 00.0 00.0 00.0 00.0	00.0 00.0 00.0 00.0 00.0	00,0028 71,4528 88,5588 44,5578 88,5588	00.07S 270.00 270.00 270.00 270.00	84.7 47.8 47.4 47.5 47.0	78,8889 00,0089 00,0089 00,0089	
74.35 TE EOI W 88.81 AT SE N 1 66.35 TE EOI W 88.81 AT SE N 5. 66.25 TE EOI W 88.81 AT SE N 0	F.347087 ES.1782 8.757087 ES.1782 8.757087 ES.1782 8.557087 ES.1782 8.557087 ES.1782 8.557087 ES.1782	0.00 0.00 0.00 0.00 0.2 0.00 0.2 0.00	07,2201- 60,2601- 15,0501-	00.0 00.0 00.0 00.0	00.0 00.0 00.0 00.0	86.4646 00.0036 71.4636 88.6636 44.6676 86.6686	270.00 270.00 270.00 270.00 270.00 270.00	47.8 47.4 47.2 47.0	00,008e 00,008e 00,008e	5./100. DF2
71.82 T6 E01 W 38.81 b1 T6 W 8 26.82 T6 E01 W 38.81 b1 T6 W 8 24.82 T6 E01 W 38.81 b1 T6 W 1 74.82 T6 E01 W 38.81 b1 T6 W 1 86.82 T6 E01 W 38.81 b1 T6 W 0	0.627037 ES.123 1.347037 ES.123 3.757037 ES.123 3.757037 ES.123 3.557037 ES.123 3.557037 ES.123 3.557037 ES.123 3.557037 ES.123	0.00 451 2.00 451 2.00 451 2.00 451 2.00 451	80.000- 80.6001- 84.8101- 07.5501- 63.5601- 15.6601-	00.0 00.0 00.0 00.0 00.0	00.0 00.0 00.0 00.0 00.0 00.0	28.3558 88.4548 00.008 71.458 38.558 44.6578 88.5588	270.00 270.00 270.00 270.00 270.00 270.00 270.00	EA.T EA.T EA.T AT.A AT.A AT.C	00'0086 00'0096 00'0096 00'0096 00'0096	5./100. DF2
2 (5 27 E 601 W 88 81 h1 SC N E 2 W 2 S	6.177037 52.132 6.087037 52.132 6.123 6.12007 52.132 6.12007 52.132 6.27037 52.132 6.27037 52.132 6.27037 52.132 6.27037 52.132	0.00 451 0.00 451 0.00 451 2.00 451 2.00 451 2.00 451	88.6001- 24.8101- 07.5201- 63.5501- 15.6501-	00.0 00.0 00.0 00.0 00.0 00.0	00.0 00.0 00.0 00.0 00.0	86.4646 00.0036 71.4636 88.6636 44.6676 86.6686	270.00 270.00 270.00 270.00 270.00 270.00	84.7 84.7 84.7 47.8 47.4 47.2	00.0028 00.0028 00.0088 00.0088	5 <sub>4</sub> /100. DF2
20.82 TE 501 W 98.81 bi SC W 8.81 Th 32 TE 501 W 98.81 bi SC W 62 Th 22 TE 501 W 98.81 bi SC W 62 Th 22 TE 501 W 98.81 bi SC W 7 Th 22 TE 501 W 98.81 bi SC W 7 Th 22 TE 501 W 98.81 bi SC W 98.81 Th 22 TE 501 W 98.81 bi SC W 98.81	6,1730 6,171007	0.00 451 0.00 451 0.00 451 0.00 451 0.00 451 2.00 451 2.00 451	60,789- 80,0001- 80,8101- 07,5501- 60,5601- 15,9601-	00.0 00.0 00.0 00.0 00.0 00.0	00.0 00.0 00.0 00.0 00.0 00.0 00.0	02.7219 03.0229 28.2529 28.2629 00.0029 71.2629 30.5539 24.5539	00.072 00.072 00.072 00.072 00.072 00.072 00.072	24.7 24.7 24.7 24.7 27.0 27.0 27.0	00'0056 00'0096 00'0096 00'0096 00'0096	5./100. DF2
78.45 F 501 W 88.81 P1 SC W 8.85 F 126.05 W 8.85 P1 SC W 8.85 P1 SC W 8.85 P1 SC W 8.85 P1 SC W 9.85 P1 SC W	8,187037 55,123 8,147037 55,123 8,1470	00.0 451 00.0 451 00.0 451 00.0 451 00.0 451 00.0 451 00.0 451 00.0 451	02,17e- 61,28e- 60,76e- 86,6001- 62,8101- 63,501- 15,8601-	00.0 00.0 00.0 00.0 00.0 00.0 00.0	00'0 00'0 00'0 00'0 00'0	88.2529 88.2529 88.2549 96.00.00 71.2529 71.2529 86.5589	00.012 00.012 00.012 00.012 00.012 00.012 00.012	84.7 84.7 84.7 47.8 47.4 47.2	00,0028 00,0059 00,0039 00,0039 00,0099 00,0099 00,0099	5./100. DF2
27,45 TE 601 W 88.81 P1 SE W 6 18,62 TE 601 W 88.81 P1 SE W 6 20,62 TE 601 W 88.81 P1 SE W 6 21,62 TE 601 W 88.81 P1 SE W 6 72,62 TE 601 W 88.81 P1 SE W 6 74,62 TE 601 W 88.81 P1 SE W 6 74,62 TE 601 W 88.81 P1 SE W 6 74,62 TE 601 W 88.81 P1 SE W 6 75,62 TE 601 W 88.81 P1 SE W 7 76,62 TE 601 W 88.81 P1 SE W 6 76,62 TE 601 W 88.81 P1 SE W 7 76,62 TE 601 W 88.81 P1 SE W 6 76,62 TE 601 W 88.81 P1 SE W 7 76,62 TE 601 W 88.81 P1 SE W 7	7,018097 55,125 8,5407087 55,125 8,6407087 55,125 8,6407087 55,125 8,177087 55,125 8,177087 55,125 8,177087 55,125 8,657087 55,125 8,6	00.0 451 00.0 451 00.0 451 00.0 451 00.0 451 00.0 451 00.0 451 00.0 451 00.0 451 00.0 451	82,828- 62,178- 80,6001- 80,5001- 84,8101- 84,8101- 81,5201-	00.0 00.0 00.0 00.0 00.0 00.0 00.0	00'0 00'0 00'0 00'0 00'0 00'0 00'0	60,7619 60,	00.072 00.072 00.072 00.072 00.072 00.072 00.072 00.072 00.072	EA.T EA.T EA.T EA.T EA.T AT.A AT.A	00,0018 00,0028 00,0028 00,0088 00,0088 00,0088 00,0088 00,0088	5./100. DF2
7, 25 TE 501 W 88.81 bit SE W 8 7, 25 TE 601 W 88.81 bit SE W 10 7, 25 TE 601 W 88.81 bit SE W 10 7, 25 TE 601 W 88.81 bit SE W 10 7, 25 TE 601 W 88.81 bit SE W 10 7, 25 TE 601 W 88.81 bit SE W 10 7, 25 TE 601 W 88.81 bit SE W 10 7, 25 TE 601 W 88.81 bit SE W 10 8, 25 T	(a) (CSB007 CS, 183 (b) (CSB007 CS, 183 (c) (C	00'0 481 00'0 481 00'0 481 00'0 481 00'0 481 00'0 481 00'0 481 00'0 481 00'0 481 00'0 481	80,389- 80,389- 80,789- 80,789- 80,001- 80,8001- 80,4001- 80,5001- 80,5001- 80,5001-	00.0 00.0 00.0 00.0 00.0 00.0 00.0	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	71 (8588 52 (8508) 52 (8508) 52 (8508) 52 (8508) 53 (8508) 54 (8508) 55 (8508) 56 (8508) 56 (8508) 56 (8508) 56 (8508) 56 (8508)	00.07S 00.07S 00.07S 00.07S 00.07S 00.07S 00.07S 00.07S	84,7 84,7 84,7 84,7 84,7 84,7 47,8 47,0	00 0006 00 0016 00 0026 00 0026 00 0026 00 0026 00 0026 00 0026 00 0016 00 0016	Prop to Vertical
78.45 TE COT W 88.81 ht SE W 5 78.45 TE COT W 88.81 ht SE W 6 78.45 TE COT W 88.81 ht SE W 6 78.45 TE COT W 88.81 ht SE W 6 78.45 TE COT W 88.81 ht SE W 8 50.45 TE COT W 88.81 ht SE W 8 50.45 TE COT W 88.81 ht SE W 8 78.45 TE COT W 88.81 ht SE W 8 98.85 TE COT W 88.81 ht SE W 6 98.85 TE COT W 88.81 ht SE W 7 98.85 TE COT W 88.81 ht SE W 7 98.85 TE COT W 88.81 ht SE W 7	\$5.125 \$1.25	00.0 451 00.0 451	12 6501- 69 2501- 69 2501- 90 246- 61 796- 02 126- 90 576- 99 558- 99 558-	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	00,3888 60,2888 60,000	270,00 270,00 270,00 270,00 270,00 270,00 270,00 270,00 270,00	E.p.7 E.p.7 E.p.7 E.p.7 E.p.7 E.p.7 E.p.7 A.7.6 A.7.0	00 0006 00 0006	Prop to Vertical
24.45 F COT W 88.81 h T SE W T 78.45 T COT W 88.81 h T SE W T	25.122 25.123	159 00°C	E V 256- 69 2501- 90 266- 90 266- 90 266- 90 27 126- 90 99 550- 90 90 90 90 90 90 90 90 90 90 90 90 90 9	00'0 00'0 00'0 00'0 00'0 00'0 00'0	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	10 0488 10 0488 10 0488 10 0488 10 0488 10 0488 11 6688 00 0688 11 6688 11 6688 11 6688 11 6688 11 6688 11 6688	00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075	84.7 84.7 84.7 84.7 84.7 84.7 84.7 87.4 87.6 87.6 87.0	00'0068 00'0066 00'0066 00'0066 00'0076 00'0076 00'0076 00'0076 00'0076 00'0076 00'0076 00'0076	Prop to Vertical
7. 4. 2. 6. 201 W 38.81 h 1 S. 4. 7. 2. 4. 2. 6. 201 W 38.81 h 1 S. 4. 6. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	2.080007 52.182 2.080007 52.182 3.028007 52.182 3.0280	19 00 Z 119 00 Z 119 00 Z 119 00 Z 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0 119 00 0	12.001- 07.5201- 07.5201- 86.0001- 90.799- 90.2179- 86.2549- 90.2179- 90.21	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	28 0478 29 0478 10 0488 10 0488 10 0488 20 37618 26 5608 27 6608 39 6508 30 0008 30 0008 31 6508 31 6508 31 6508	00.07S 00.07S 00.07S 00.07S 00.07S 00.07S 00.07S 00.07S 00.07S 00.07S	24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7	00 00088 00 00098 00 00096 00 00096 00 00096 00 00096 00 00096 00 00096 00 00096 00 00096 00 00096 00 00098	Prop to Vertical
28.55 TE COT W 28.81 PT SC W T. 78.52 TE COT W 28.81 PT SC W T. 51.45 TE COT W 28.81 PT SC W T. 52.45 TE COT W 28.81 PT SC W T. 52.45 TE COT W 28.81 PT SC W T. 52.45 TE COT W 38.81 PT SC W T. 52.45 TE COT W 38.81 PT SC W T. 52.45 TE COT W 38.81 PT SC W T. 52.45 TE COT W 38.81 PT SC W T. 52.45 TE COT W 38.81 PT SC W T. 52.45 TE COT W 38.81 PT SC W T. 54.45 TE COT W 38.81 PT SC W T	2.4828.7 £2.4828	159 00 Z 159 00 Z 159 00 0 159 00 0	12 eco1- 69 zeo1- 07 zeo1- 90 zeo- 60 zeo-	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	75.5448 68.1488 69.148	00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075	24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7	00'0068 00'0048 00'0096 00'0096 00'0096 00'0096 00'0096 00'0096 00'0096 00'0096 00'0098 00'0098	Prop to Vertical
28.62 7E COI W 28.81 bi SC W 7. 79.62 7E COI W 38.81 bi SC W 7. 70.62 7E COI W 38.81 bi SC W 7. 70.62 7E COI W 38.81 bi SC W 7. 70.62 7E COI W 38.81 bi SC W 7. 70.62 7E COI W 38.81 bi SC W 7. 70.62 7E COI W 38.81 bi SC W 7. 70.62 7E COI W 7. 70.72 7E COI W 7.	2.88007 52.125 2.88007 52.125 2.8800	159 00 Z 159 00 Z 159 00 0 159 00 0	12 6501- 69 2501- 07 2201- 57 8101- 86 6001- 90 266- 97 246- 97 256- 97 256- 15 616- 99 256- 15 616- 99 266- 99 266- 90 266- 9	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	15, tales 15, tales 16, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075	64.7 64.7 64.7 64.7 64.7 64.7 64.7 64.7	00,0098 00,0048 00,0048 00,0048 00,0048 00,0048 00,0048 00,0048 00,0088 00,0088 00,0088 00,0088 00,0088 00,0088 00,0088 00,0088	Prop to Vertical
28.25.45.00 W 28.81 h 1 SC W 17.82 W 18.82 W 18.82 W 18.82 W 18.82 W 18.82 W 18.83 W 18.84 W 1	2.125 2.	159 00 Z 159 00 Z 159 00 Z 159 00 0 159 00 0	86 6001- 97 266- 97 266- 98 266- 99 266- 97 266- 97 266- 97 266- 97 266- 98 266- 99 266- 90	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	\$2,528 \$2,5248 \$2,5248 \$2,5248 \$3,5248 \$3,5248 \$3,5248 \$3,5248 \$3,5248 \$3,5248 \$3,5248 \$3,5248 \$4,5	70,007 70,007	26,7 26,7 26,7 26,7 26,7 26,7 26,7 26,7	00 0068 00 0068 00 0068 00 0068 00 0068 00 0068 00 0068 00 0068 00 0068 00 0068 00 0068 00 0068 00 0068	Prop to Vertical
22.62 76 501 W 28.81 bi SC W h. 12.25 76 501 W 28.81 bi SC W 12.25 76 501 W 28.81 bi SC W h. 12.25 76 501 W 28.81 bi SC W h. 12.25 76 501 W 28.81 bi SC W 12.25 76 501 W 28.25 76 501 W 28.2	\$1,00007 \$2,182 \$1,00007 \$2,18	159 00 Z 159 00 Z 159 00 0 159 00 0	12 6501- 69 2501- 07 2501- 57 8101- 86 6001- 90 246- 91 256- 97 256- 15 616- 97 256- 15 616- 99 266- 15 766- 15 766-	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	15, tales 15, tales 16, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075 00.075	64.7 64.7 64.7 64.7 64.7 64.7 64.7 64.7	00,0098 00,0048 00,0048 00,0048 00,0048 00,0048 00,0048 00,0048 00,0088 00,0088 00,0088 00,0088 00,0088 00,0088 00,0088 00,0088	Prop to Vertical
22.65 TE COT W 38.81 P1 SC W TO 25.65 TE COT W 38.81 P1 SC W TO 25.65 TE COT W 38.81 P1 SC W TO 25.65 TE COT W 38.81 P1 SC W TO 25.65 TE COT W 38.81 P1 SC W TO 27.65 TE COT W 38.81 P1 SC W T	\$1,00007 \$2,182 \$1,00007 \$2,18	159 00 Z 159 00 Z 159 00 0 Z 159 00 0 Z 159 00 0 0 159 00 0 0 159 00 0 0 159 00 0 0 159 00 0 0 159 00 0 0 159 00 0 0 159 00 0 0 159 00 0 0 159 00 0 0 159 00 0 0 159 00 0 0 159 00 0 0 159 00 0 0 0 159 0 0 0 0 0 0 159 0 0 0 0 0 0 159 0 0 0 0 0 0 159 0 0 0 0 0 0 159 0 0 0 0 0 0 159 0 0 0 0 0 0 0 159 0 0 0 0 0 0 0 159 0 0 0 0 0 0 159 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.7 6501- 69 7501- 07 7201- 88 6001- 90 7.86- 51 746- 97 58- 97 596- 69 750- 15 616- 85 906- 77 766- 15 616- 85 906- 77 99 566- 77 9	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	00'0 00'0 00'0 00'0 00'0 00'0 00'0 00'	57.9408 57.9408	70,007 70,007	24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7	00.0018 00.0028	Drop to Vertical
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	TT.18 ET SE N		10.513854	00.0	84.S401-	SE.8E72-	25.8672	00.00801	00.081	00.08	13400.00	
	87.58 Et SE N		10.613844	00.0	84.5401-	-2638.32	2638.32	00.00801	00.081	90.08	00.00661	
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# Cimarex

Rev 0



Borehole:

Original Borehole

Original Borehole

Well:

Cimarex Dos Equis 12-13 Federal Com
7H

Field:

NM Lea County (NAD 83)

Structure:

Cimarex Dos Equis 12-13 Federal Com
7H

Gravity & Magnetic Parameters

Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet

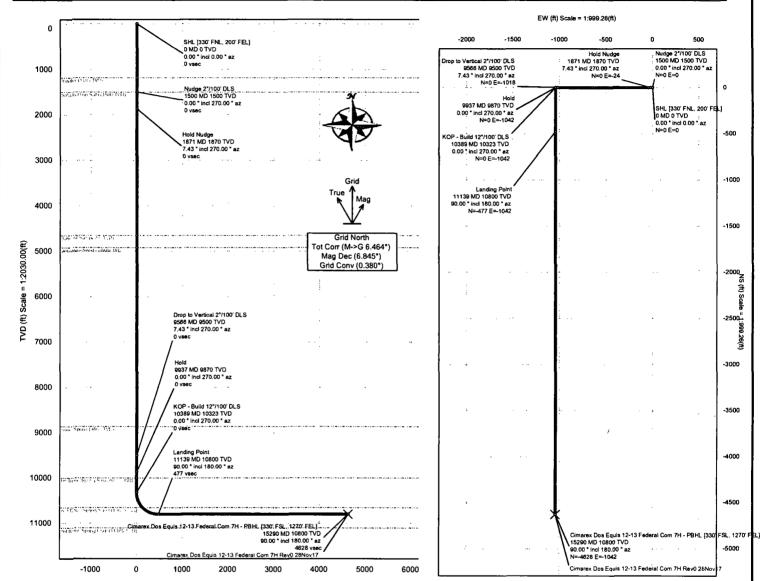
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Model: HDGM 2017 Dip: 69.877\* Date: 28-Nov-2917

Lat: N 32 14 18.80 Northing: 451251.23RUS Grid Conv: 0.3803\* State Equile 12-13 TVO Ref: RXB(3851.8R above MSL)

Federal Com 7H Ravd 29Nov17

Lon: W 103 37 13.59 Eesting: 761764.07RUS Scale Feet: 0.99998473 Plane: Cimeres Dos Equile 12-13 Federal Com 7H Ravd 29Nov17



Vertical Section (ft) Azim = 180.00° Scale = 1:2030.00(ft) Origin = 0N/-S, 0E/-W

Critical Points									
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS	
SHL [330' FNL, 200' FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Rustler	1185.00	0.00	270.00	1185.00	0.00	0.00	0.00	0.00	
Nudge 2*/100' DLS	1500.00	0.00	270.00	1500.00	0.00	0.00	0.00	0.00	
Salado (Top Salt)	1500.00	0.00	270.00	1500.00	0.00	0.00	0.00	0.00	
Hold Nudge	1871.29	7.43	270.00	1870.25	0.00	0.00	-24.03	2.00	
Base of Sait	4874.55	7.43	270.00	4650.00	0.00	0.00	-386.33	0.00	
Delaware Sands	4946.83	7.43	270.00	4920.00	0.00	0.00	-421.52	0.00	
Bone Spring	8925.20	7.43	270.00	8885.00	0.00	0.00	-935.69	0.00	
Drop to Vertical 2°/100' DLS	9565.57	7.43	270.00	9500.00	0.00	0.00	-1018.45	0.00	
Hold	9936.86	0.00	270.00	9870.25	0.00	0.00	-1042.48	2.00	
1st Bone Spring Sand	10061.61	0.00	270.00	9995.00	0.00	0.00	-1042.48	0.00	
KOP - Build 12*/100' DLS	10389.14	0.00	270.00	10322.54	0.00	0.00	-1042.48	0.00	
2nd Bone Spring Sand	10756.91	44.13	180.00	10655.00	134.77	-134.77	-1042.48	12.00	
Landing Point	11139.14	90.00	180.00	10800.00	477.46	-477.48	-1042.48	12.00	
Cimarex Dos Equis 12-13 Federal Com 7H - PBHL [330' FSL, 1270' FEL]	15290.09	90.00	180.00	10800.00	4628.41	-4628.41	-1042.48	0.00	
3rd Bone Spring Carb	NaN			11105.00					

# imarex Dos Equis 12 Federal Com 7. Surface Use Plan

Upon approval of the Application for Permit to Drill (APD) the following surface use plan of operations will be followed and carried out. The surface use plan outlines the proposed surface disturbance. If any other disturbance is needed after the APD is approved, a BLM sundry notice or right of way application will be submitted for approval prior to any additional surface disturbance.

#### **Existing Roads**

- Directions to location Exhibit A.
- Public access route Exhibit B.
- Existing access road for the proposed project. Please see Exhibit B and C.
- Cimarex Energy will:
  - o Improve and/or maintain existing road(s) condition the same as or better than before the operations began.
  - Provide plans for improvement and /or maintenance of existing roads if requested.
  - Repair or replace damaged or deteriorated structures as needed. Including cattle guards and culverts.
  - Prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or other events.
  - Obtain written BLM approval prior to the application of surfactants, binding agents, or other dust suppression chemicals on the roadways.
- The maximum width of the driving surface will be 18'. The road will be crowned and ditched with a 2% slope from the tip of
  the crown to the edge of the driving surface. The ditches will be 1' deep with 3:1 slopes. The driving surface will be made of 6"
  rolled and compacted caliche.

#### **New or Reconstructed Access Roads**

Cimarex Energy plans to construct a new off-lease access road

- Length: 4860'
- Width: 30'
- Road Plat Exhibit D.
- A ROW will be submitted to the BLM for approval.
- Cimarex Energy will complete improvements to the driving surface as needed.
- The maximum width of the driving surface for all roads above will be 18'.
- The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface.
- The ditches will be 1' deep with 3:1 slopes.
- The driving surface will be made of 6" rolled and compacted caliche.
- Cimarex Energy will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or other events.

#### Well Radius Map

Please see Exhibit E for wells within one mile or proposed well SHL and BHL.

#### **Proposed or Existing Production Facility**

A new facility will be constructed for this project if the well is productive.

- Dos Equis 12-13 Federal Com East Zone 1 CTB & Zone 2 CTB Exhibit F
  - o Direction to facility
  - o Facility pad location layout and cut and fill
  - Facility pad archeological boundary
  - o Facility pad flowline corridor
  - o Facility pad access road

#### **Gas Pipeline Specifications**

No pipeline proposed. A 3rd party will be laying a gas pipeline to the well. Custody transfer meter will be on pad.

# imarex Dos Equis 12 Federal Com 7 Surface Use Plan

#### **Salt Water Disposal Specifications**

- Cimarex plans to construct an off-lease SWD pipeline to service this battery location.
- Please see Exhibit H for proposed pipeline route.
- Two pipelines: 4" Surface poly & 12" Buried poly. Both pipelines follow the same route.
- Length: 14,223'.
- MAOP: 4" line: 120psi; 12" line: 150psi.
- Anticipated working pressure: 4" line: 110psi; 12": 225 psi.
- A ROW application will be submitted to the BLM for the proposed route.

#### **Power Lines**

- Cimarex plans to construct an off-lease power line to service the Dos Equis 12-13 Federal E2E2 Pad & Dos Equis Federal Com East Zone 1 CTB & Zone 2 CTB.
- Overhead power line from an existing power source located in the NE 1/4 of Sec 12-24S-32E.
- Length: 1,533'.
- Poles: 6
- Specifications: 480 volt, 4 wire, 3 phase.
- Please see Exhibit I for proposed route.
- A ROW application will be submitted to the BLM for the proposed route.

#### **Well Site Location**

- Proposed well pad/location layout Exhibit J.
- Proposed Rig layout Exhibit K
  - The rig layout, including V-door and flare line may change depending on rig availability. The pad dimensions and
    orientation will remain the same. No additional disturbance is anticipated if a rig layout change is necessary to
    accommodate the drilling rig. If additional disturbance is required a sundry notice will be submitted to the BLM
    for approval.
  - Mud pits in the closed circulation system will be steel pits and the cuttings will be stored in the steel containment pits.
  - o Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- Archeological boundary Exhibit L
- Multi well pad: Dos Equis 12-13 Federal com 21H-33H
- Pad Size: 500x560
- Construction Material
  - o If possible, native caliche will be obtained from the excavation of drill site. The primary way of obtaining caliche will be by "turning over" the location. This means caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2,400 cu yds is the max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:
    - The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
    - An approximate 120' x 120' area is used within the proposed well site to remove caliche.
    - Subsoil is removed and piled alongside the 120' x 120' area within the pad site.
    - When caliche is found, material will be stockpiled within the pad site to build the location and road.
    - Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
    - Once well is drilled, the stockpiled top soil will be used for interim reclamation and spread along areas
      where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled
      outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in Exhibit J Layout
      Diagram.
    - In the event that no caliche is found onsite, caliche will be hauled in from BLM-approved caliche pit in Sec. 07-24S-33E or Sec 20-23S-33E.
  - Mud pits in the closed circulation system will be steel pits and the cuttings will be stored in steel containment pits.
- Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- If the well is a producer, those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements. Exhibit P: Interim Reclamation Diagram.
- There are no known dwellings within 1.5 miles of this location.

# imarex Dos Equis 12 Federal Com 71 Surface Use Plan

#### **Flowlines and Gas Lift Pipelines**

All proposed pipelines will be constructed in a 60' ROW corridor.

- Flowlines
  - o Cimarex Energy plans to construct on-lease flowlines to service the well.
  - o 6" HP steel for oil, gas, and water production.
  - Length: 2,186'.
  - o MAOP: 1,500 psi; Anticipated working pressure: 200-300 psi.
  - Please see Exhibit M for proposed on lease route.
- Gas Lift Pipeline
  - o Cimarex Energy plans to construct on-lease gas lift pipelines to service the well.
  - o 6" HP steel for gas lift.
  - o Length: 2,186'.
  - o MAOP: 1,500 psi; Anticipated working pressure: 200-300 psi.
  - o Please see Exhibit N for proposed on lease route.

#### **Water Resources**

- A temporary surface fresh water pipeline(s) will be utilized for this project.
- Cimarex plans to lay the fresh water surface pipeline(s) prior to commencement of the stimulation job.
- 10" lay-flat surface pipeline.
- The surface pipeline(s) will follow the road from a frac pit to the well.
- Length: 23,470'.
- Operating pressure: <140 psi.
- Fresh water will be purchased from a 3rd party.
- Please see Exhibit O for proposed route.

#### Methods of Handling Waste

- Drilling fluids, produced oil, and water from the well during drilling and completion operations will be stored safely and disposed of properly in a NMOCD approved disposal facility.
- Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around well site will be collected for disposal.
- Human waste and grey water will be contained and disposed of properly at a state approved disposal site.
- After drilling and completion operations, trash, chemicals, salts, frac sand and other waste will be removed and disposed of properly at a state approved disposal site.
- The well will be drilled utilizing a closed loop system. Drill cuttings will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility.

#### **Waste Minimization Plan**

See Gas Capture Plan.

#### **Ancillary Facilities**

No camps or airstrips to be constructed.

# Limarex Dos Equis 12 Federal Com 7 Surface Use Plan

#### **Interim and Final Reclamation**

- Rehabilitation of the location will start in a timely manner after all proposed drilling wells have been drilled from the pad or if drilling operations have ceased as outlined below:
  - o No approved or pending drill permits for wells located on the drill pad
  - o No drilling activity for 5 years from the drill pad
- Surfacing materials will be removed and returned to a mineral pit or recycled to repair or build roads and well pads.
- Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may
  need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area
  has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible.
   Revegetation procedures will comply with BLM standards.
- Exhibit P illustrates the proposed Surface Reclamation plans after cessation of drilling operations as outlined above.
  - The areas of the location not essential to production facilities and operations will be reclaimed and seeded per BLM requirements.
- Operator will amend the surface reclamation plan if well is a dry hole and/or a single well pad.

#### **Surface Ownership**

- The wellsite is on surface owned by Bureau of Land Management.
- A copy of Surface Use Agreement has been given to the surface owner.
- The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.

#### **Cultural Resource Survey - Archeology**

 Cultural Resources Survey will be conducted for the entire project as proposed in the APD and submitted to the BLM for review and approval.

#### On Site Notes and Information

Onsite Date: 8/29/2017

**BLM Personnel on site: Jesse Bassett** 

Cimarex Energy personnel on site: Barry Hunt

Pertinent information from onsite:

BEGINNING AT THE INTERSECTION OF JAL HIGHWAY/HIGHWAY 128 AND AN EXISTING ROAD TO THE NORTHWEST (LOCATED AT NAD 83 LATITUDE N32.2103° AND LONGITUDE W103.5947°), PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 2.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN WESTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 252' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 66' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF JAL HIGHWAY/HIGHWAY 128 AND AN EXISTING ROAD TO THE NORTHWEST (LOCATED AT NAD 83 LATITUDE N32.2103° AND LONGITUDE W103.5947°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 2.7 MILES.

#### **CIMAREX ENERGY CO.**

DOS EQUIS 12-13 FEDERAL COM E2E2 NE 1/4 NE 1/4, SECTION 12, T24S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO



UELS, LLC Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

SURVEYED BY	J.A.V., R.D.	09-12-17	
DRAWN BY	J.A.	10-28-17	
ROAD DE	SCRIPTIC	N EX	HIBIT A