Form 3160-3 (June 2015)			OMB N	APPROVED fo. 1004-0137 anuary 31, 2018
UNITED STA			•	
DEPARTMENT OF TH BUREAU OF LAND MA			5. Lease Serial No.	
APPLICATION FOR PERMIT TO			6. If Indian, Allotee	or Tribe Name
7 2.07				
la. Type of work: DRILL	REENTER		7. If Unit or CA Ag	reement, Name and No.
1b. Type of Well: Oil Well Gas Well	Other			
1c. Type of Completion: Hydraulic Fracturing	Single Zone [Multiple Zone	8. Lease Name and	Well No.
				[326056]
2. Name of Operator [215099]			9. API Well No.	30-025-5012
3a. Address	3b. Phone N	No. (include area code)	10. Field and Pool,	or Exploratory [96674]
4. Location of Well (Report location clearly and in accordan	nce with any State	e reauirements.*)	11. Sec., T. R. M. o	r Blk. and Survey or Area
At surface		, , , , , , , , , , , , , , , , , , , ,		
At proposed prod. zone				
14. Distance in miles and direction from nearest town or post	t office*		12. County or Paris	h 13. State
15. Distance from proposed* location to nearest property or lease line, ft.	16. No of a	cres in lease 17. S	Spacing Unit dedicated to	:his well
(Also to nearest drig. unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propose	od Depth 20, E	BLM/BIA Bond No. in file	:
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work will start*	23. Estimated durat	ion
	24. Attac	chments		
The following, completed in accordance with the requirement (as applicable)	ts of Onshore Oil	and Gas Order No. 1, and	the Hydraulic Fracturing	rule per 43 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest S SUPO must be filed with the appropriate Forest Service O 		Item 20 above). 5. Operator certification.	•	n existing bond on file (see s may be requested by the
25. Signature	Name	e (Printed/Typed)		Date
Title				1
Approved by (Signature)	Name	e (Printed/Typed)		Date
Title	Office	2		
Application approval does not warrant or certify that the appapplicant to conduct operations thereon. Conditions of approval, if any, are attached.	licant holds legal	or equitable title to those ri	ghts in the subject lease w	hich would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 121 of the United States any false, fictitious or fraudulent statemen				any department or agency
NGMP Rec 04/28/2022 SL	POVED WI	TH CONDITION	05	5/09/2022
(Continued on page 2)	1011		*(In	structions on page 2)

Released to Imaging: 5/10/2022 7:36:37 AM Approval Date: 10/22/2021

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

0. SHL: NENW / 195 FNL / 1480 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238918 / LONG: -103.632031 (TVD: 0 feet, MD: 0 feet) PPP: NENW / 195 FNL / 1480 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238919 / LONG: -103.631901 (TVD: 9283 feet, MD: 9289 feet) PPP: NESW / 2640 FNL / 1520 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.232194 / LONG: -103.631906 (TVD: 9600 feet, MD: 11930 feet) PPP: NENW / 0 FNL / 1520 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.224914 / LONG: -103.631914 (TVD: 9600 feet, MD: 14579 feet) BHL: SESW / 100 FSL / 1520 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.210691 / LONG: -103.631926 (TVD: 9600 feet, MD: 19753 feet)

BLM Point of Contact

Name: JORDAN NAVARRETTE

Title: LIE

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

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.



PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

LEASE NO.: NMNM001917 COUNTY: Lea County	OPERATOR'S NAME:	Cimarex Energy Company
COUNTY: Lea County	LEASE NO.:	NMNM001917
	COUNTY:	Lea County

Wells:

Dos Equis 12-13 Fed Com #48H

Surface Hole Location: 255' FNL & 1580' FWL Section 12-24S-32E Bottom Hole Location: 100' FSL & 1386' FWL Section 13-24S-32E

Dos Equis 12-13 Fed Com #49H

Surface Hole Location: 195' FNL & 1540' FWL Section 12-24S-32E Bottom Hole Location: 100' FSL & 1430' FWL Section 13-24S-32E

Dos Equis 12-13 Fed Com #50H

Surface Hole Location: 195' FNL & 1520' FWL Section 12-24S-32E Bottom Hole Location: 100' FSL & 1560' FWL Section 13-24S-32E

Dos Equis 12-13 Fed Com #51H

Surface Hole Location: 195' FNL & 1500' FWL Section 12-24S-32E Bottom Hole Location: 100' FSL & 1540' FWL Section 13-24S-32E

Dos Equis 12-13 Fed Com #52H

Surface Hole Location: 195' FNL & 1480' FWL Section 12-24S-32E Bottom Hole Location: 100' FSL & 1520' FWL Section 13-24S-32E

Dos Equis 12-13 Fed Com #75H

Surface Hole Location: 300' FNL & 2410' FWL Section 12-24S-32E Bottom Hole Location: 100' FSL & 2000' FWL Section 13-24S-32E

Dos Equis 12-13 Fed Com #76H

Surface Hole Location: 300' FNL & 2430' FWL Section 12-24S-32E Bottom Hole Location: 100' FSL & 2100' FWL Section 13-24S-32E

Dos Equis 12-13 Fed Com #77H

Surface Hole Location: 300' FNL & 2130' FWL Section 12-24S-32E Bottom Hole Location: 100' FSL & 2130' FWL Section 13-24S-32E

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

□ General Provisions
□ Permit Expiration
□ Archaeology, Paleontology, and Historical Sites
□ Noxious Weeds
□ Special Requirements
□ Watershed
□ Construction

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Notification

Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
□Road Section Diagram
⊠Production (Post Drilling)
Well Structures & Facilities
□Interim Reclamation
□Final Abandonment & Reclamation

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

OR

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

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 6 for more information.

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

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

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or

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

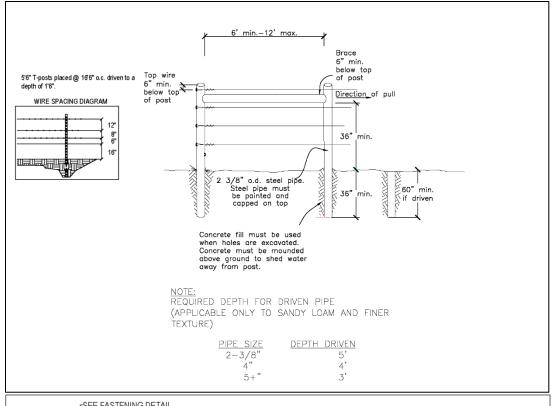
IV. NOXIOUS WEEDS

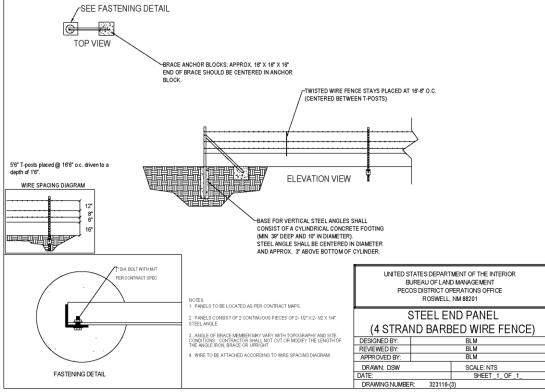
The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds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

V. SPECIAL REQUIREMENT(S)

Watershed:

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





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)

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

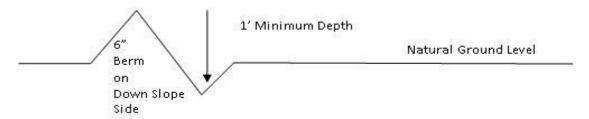
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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

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

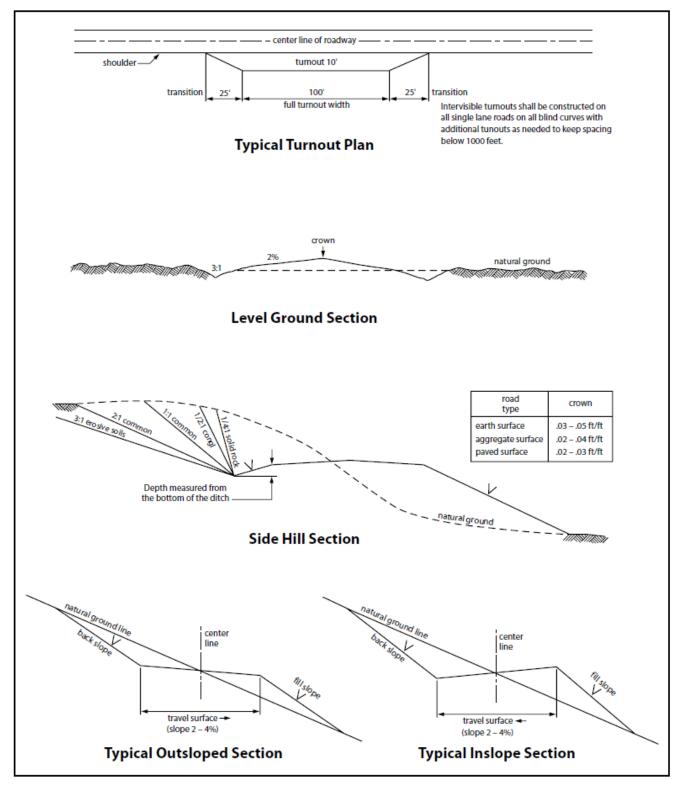


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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).

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.

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

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

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

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

Seed Mixture 2, for Sandy Sites

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

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

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

Species

	I <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

^{*}Pounds of pure live seed:

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Cimarex LEASE NO.: NMNM001917

LOCATION: Section 12, T.24 S., R.32 E., NMPM

COUNTY: Lea County, New Mexico

WELL NAME & NO.: Dos Equis 12-13 Fed Com 52H

SURFACE HOLE FOOTAGE: 195'/N & 1480'/W **BOTTOM HOLE FOOTAGE** 100'/S & 1520'/W

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware Group** 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

- 1. The 13-3/8 inch surface casing shall be set at approximately 1520 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface. Excess calculates to 18%. Additional cement maybe requried.
 - 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 1/3rd fluid filled to meet BLM minimum collapse requirement.

- 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. Excess
 calculates to 21%. Additional cement maybe required.
 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.

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. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - 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. 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.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig

- Notify the BLM when moving in and removing the Spudder Rig.
- Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
- BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP
- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, no tests shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

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.

ZS081121



Application for Permit to Drill

U.S. Department of the Interior Bureau of Land Management

APD Package Report

Date Printed:

APD ID: Well Status:

APD Received Date: Well Name:

Operator: Well Number:

APD Package Report Contents

- Form 3160-3: Error Generating Form

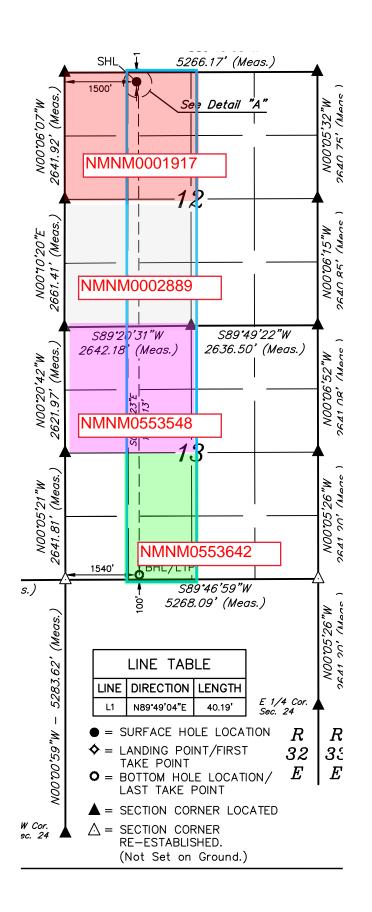
- Operator Certification Report : Error Generating Form

- Application Report : Error Generating Report

- Application Attachments
 - -- Well Plat: 2 file(s)
- Drilling Plan Report: Error Generating Report
- Drilling Plan Attachments
 - -- Blowout Prevention Choke Diagram Attachment: 2 file(s)
 - -- Blowout Prevention BOP Diagram Attachment: 2 file(s)
 - -- Casing Design Assumptions and Worksheet(s): 4 file(s)
 - -- Hydrogen sulfide drilling operations plan: 1 file(s)
 - -- Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
 - -- Other Facets: 2 file(s)
 - -- Other Variances: 2 file(s)
- SUPO Report : Error Generating Report
- SUPO Attachments
 - -- Existing Road Map: 1 file(s)
 - -- Attach Well map: 1 file(s)
 - -- Production Facilities map: 4 file(s)
 - -- Water source and transportation map: 1 file(s)
 - -- Well Site Layout Diagram: 2 file(s)
 - -- Recontouring attachment: 1 file(s)
- PWD Report : Error Generating Report
- PWD Attachments
 - -- None
- Bond Report : Error Generating Form
- Bond Attachments

-- None

Dos Equis 12-13 Fed Com 52H Lease Map



Released to Imaging: 5/10/2022 7:36:37 AM

Received by OCD: 4/28/2022 10:51:21 AM

<u>District I</u> 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

Range

Township

Lot Idn

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

East/West lin

■ AMENDED REPORT

County

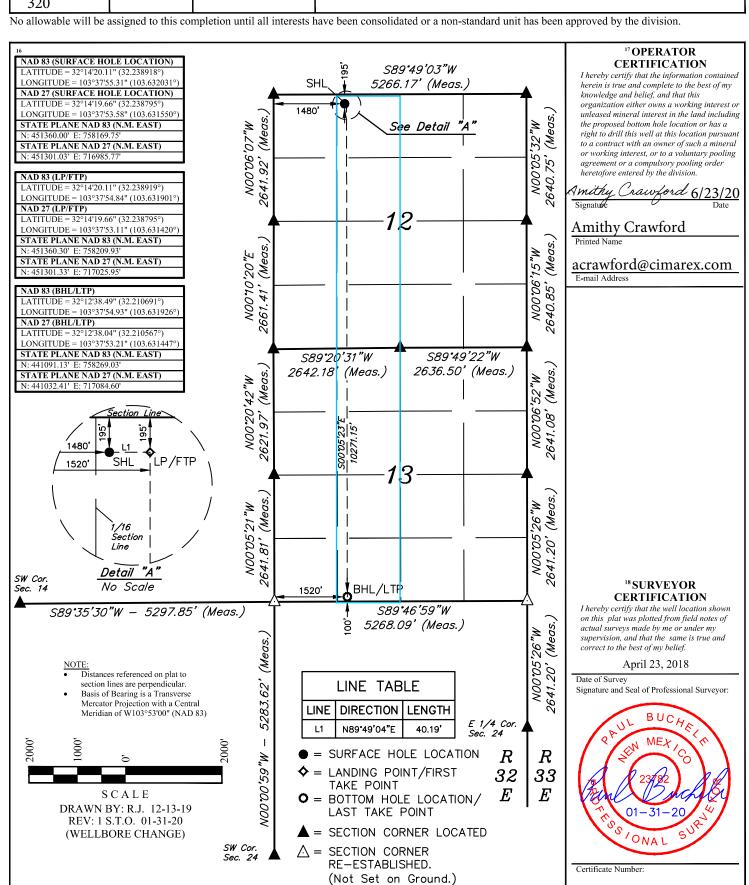
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-50124	•	96674	TRIPLE X;BONE SPRING	, WEST			
⁴ Property Code 326056			roperty Name 6 Well Number 12-13 FEDERAL COM 52H				
⁷ OGRID No. 215099			perator Name EX ENERGY CO.	⁹ Elevation 3608.1'			

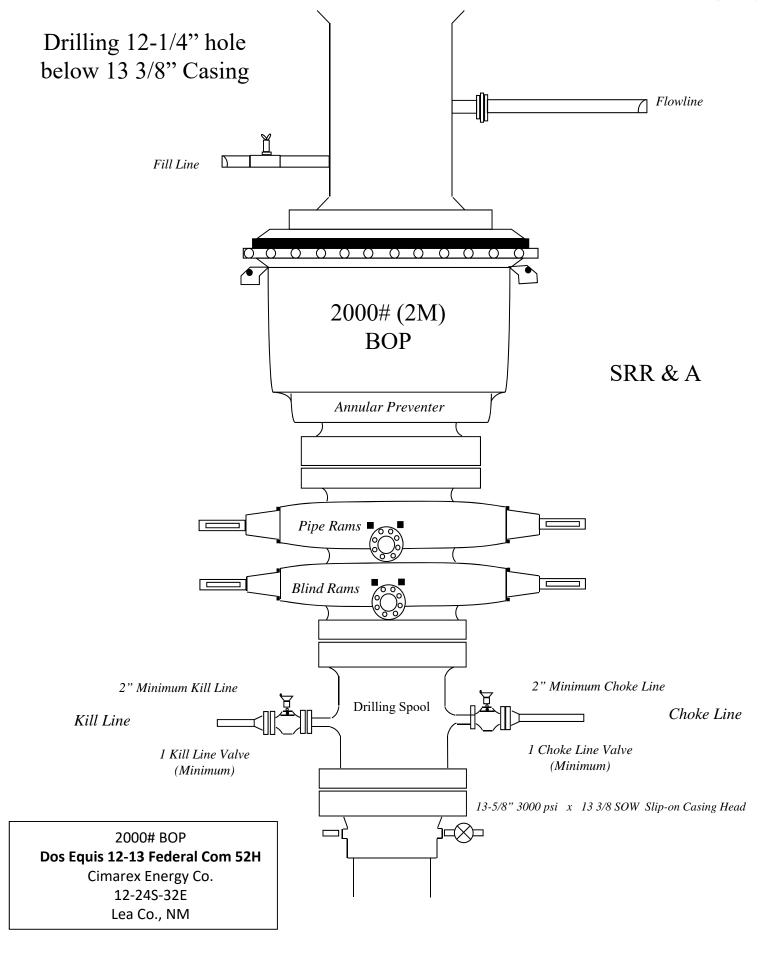
¹⁰ Surface Location

C	12	248	32E		195	NORTH	1480	WEST	LEA			
"Bottom Hole Location If Different From Surface												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			

32Ē SOUTH 1520 WEST LEA 24S 100



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5000# BOP

Dos Equis 12-13 Federal Com 52H
Cimarex Energy Co.
12-24S-32E
Lea Co., NM

Wellhead Assembly

Wellhead Assembly

13-5/8" 3000 psi x 11" 5000 psi
Wellhead Assembly

13-5/8" 3000 psi x 11" 5000 psi
Wellhead Assembly

Dos Equis 12-13 Fed Com 51H

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1235	1235	13-3/8"	48.00	H-40	ST&C	1.38	3.23	5.43
12 1/4	0	<mark>4</mark> 897	4894	9-5/8"	36.00	J-55	ST&C	1.21	1.38	2.24
8 3/4	0	9125	9125	5-1/2"	20.00	L-80	LT&C	2.07	2.15	2.17
8 3/4	9125	19754	9600	5-1/2"	20.00	L-80	BT&C	1.97	2.00	49.05
	•			•	BLM	Minimum	Safety Factor	1.125	1	1.6 Dry 1.8 Wet

Received by OCD: 4/28/2022 10:51:21 AM

Dos Equis 12-13 Fed Com 51H

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Dos Equis 12-13 Fed Com 51H

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	•				BLM	Minimum	Safety Factor	1.125	1	1.6 Dry 1.8 Wet

Hydrogen Sulfide Drilling Operations Plan Dos Equis 12-13 Federal Com 52H

Cimarex Energy Co. UL: C, 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 H₂S
- 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.

H₂S 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.
- B.

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 <u>Communication:</u>

- 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.

H₂S Contingency Plan Dos Equis 12-13 Federal Com 52H

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

Emergency Procedures

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

- « Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- « Evacuate any public places encompassed by the 100 ppm ROE.
- « Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the 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_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

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 Contac

t s Dos Equis 12-13 Federal Com 52H

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

	Lea Co., NM		
Company Office			
Cimarex Energy Co. of Colora	do	800-969-4789	
Co. Office and After-Hours M	lenu		
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
<u>Artesia</u>			
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		575-746-2122	
New Mexico Oil Conservati	ION 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	Committee	575-887-6544	
US Bureau of Land Manage	ement	575-887-6544	
Santa Fe			
New Mexico Emergency Re	esponse Commission (Santa Fe)	505-476-9600	
New Mexico Emergency Re	esponse Commission (Santa Fe) 24 Hrs	505-827-9126	
New Mexico State Emerger	ncy Operations Center	505-476-9635	
<u>National</u>			
National Emergency Respo	onse Center (Washington, D.C.)	800-424-8802	
<u>Medical</u>			
Flight for Life - 4000 24th S	St.; Lubbock, TX	806-743-9911	
Aerocare - R3, Box 49F; Lub	bbock, TX	806-747-8923	
Med Flight Air Amb - 2301	Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433	
	Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949	
SB Air Med Service - 2505 (
<u>Other</u>		800-256-9688	or 281-931-8884
Other Boots & Coots IWC		800-256-9688 432-699-0139	
SB Air Med Service - 2505 (Other Boots & Coots IWC Cudd Pressure Control Halliburton			

Schlumberger



Cimarex Dos Equis 12-13 Federal Com #52H Rev1 RM 17Feb20 Anti-Collision Summary Report

 Analysis Date-24hr Time:
 February 17, 2020 - 16:05

 Client:
 Cimarex Energy

 Field:
 MM Lea County (NAD 83)

 Structure:
 Cimarex Dos Equis 12-13 Federal Com #52H

Slot: New Slot

Well: Dos Equis 12-13 Federal Com #52H Dos Equis 12-13 Federal Com #52H Borehole:

Scan MD Range: 0.00ft ~ 19753.92ft

ISCWSA0 3-D 95.000% Confidence 2.7955 sigma, for subject well. For offset wells, error model version is specified with each well respectively.

Offset Trajectories Summary

Trajectory Error Model:

Offset Selection Criteria
Wellhead distance scan:

Selection filters:

Not performed!
Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans
- All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

Analysis Method: Reference Trajectory: Cimarex Dos Equis 12-13 Federal Com #52H Rev1 RM 17Feb20 (Non-Def Plan) Depth Interval:

3D Least Distance Every 10.00 Measured Depth (ft)
NAL Procedure: D&M AntiCollision Standard S002

Min Pts: All local minima indicated. Version / Patch:

2.10.787.0 us1153APP452.DIR.SLB.COM\DRILLING-NM Lea County 2.10 Database \ Project:

Offset Trajectory		Separation	Allow	Sep.	Controlling	Reference	Trajectory		Risk Level		Alert	Status
		MAS (ft) EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
Results highlighted: Sep-Factor	separation <=	1.50 ft										
Cimarex Dos Equis 12-13 Federal Com #51H Rev1 RM 17Feb20 (Def Plan)												Fail Major
, ,	19.99	16.25 18.70		N/A	MAS = 4.95 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	•
	19.99 19.99	16.25 18.70 20.02 6.22		84186.91 1.50	MAS = 4.95 (m) OSF1.50	26.00 2050.00	26.00 2050.00		OSF<1.50		WRP Enter Minor	
	19.52	25.75 1.93	-6.23	1.12	OSF1.50	2660.00	2659.92		001 < 1.50		MinPt-CtCt	
	19.62 19.71	26.03 1.84 26.12 1.86	-6.41	1.11	OSF1.50 OSF1.50	2690.00 2700.00	2689.86 2699.84				MinPts MinPt-O-ADP	
	27.71	27.99 <u>8.63</u>	-0.42	1.11	OSF1.50	2900.00	2899.11		OSF>1.50		Exit Minor	
	85.41	84.52 28.63	0.89	1.52	OSF1.50	9125.27	9121.77				MinPts	
	84.75 65.71	83.77 28.47 65.79 21.42	0.98	1.52 1.50	OSF1.50 OSF1.50	9200.00 9490.00	9196.19 9452.07		OSF<1.50		MinPts Enter Minor	
	32.13	49.97 -1.61		0.95	OSF1.50	9760.00	9585.83			OSF<1.00	Enter Major	
	19.87 19.90	78.36 -32.80 78.56 -32.90	-58.49 -58.66	0.36	OSF1.50 OSF1.50	9920.00 9930.00	9600.00 9600.00				MinPt-CtCt MinPts	
	19.94	78.62 -32.90	-58.68	0.36	OSF1.50	9940.00	9600.00				MinPt-O-ADP	
	20.00	318.85 -192.99	-298.84	0.09	OSF1.50	19753.92	9600.00				MinPts	
Cimarex Dos Equis 12-13 Federal Com #50H Rev1 RM 17Feb20 (Def Plan)												Fail Minor
	39.99	32.25 38.71		N/A	MAS = 9.83 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
	39.99 39.99	32.25 38.71 32.25 26.60	7.74 7.74	174208.91 3.20	MAS = 9.83 (m) MAS = 9.83 (m)	26.00 1990.00	26.00 1990.00				WRP MinPts	
	40.12	32.25 26.41	7.87	3.13	MAS = 9.83 (m)	2040.00	2040.00				MINPT-O-EOU	
	40.97 61.60	32.25 26.84 32.25 40.09	0.72	3.09 2.98	MAS = 9.83 (m) MAS = 9.83 (m)	2110.00 3750.00	2110.00 3746.50				MinPt-O-SF MinPts	
	61.60	61.60 20.10	0.00	1.50	OSF1.50	6970.00	6966.50		OSF<1.50		Enter Minor	
	60.79 79.58	82.23 5.54 82.31 24.28	-21.44 -2.73	1.10 1.45	OSF1.50 OSF1.50	9220.00 9370.00	9215.88 9355.92		OSF>1.50		MinPts Exit Minor	
	267.79	82.73 212.21	185.06	4.91	OSF1.50	9660.00	9551.75	OSF>5.00			Exit Alert	
	3300.14	317.98 3087.73	2982.16	15.62	OSF1.50	19753.92	9600.00				MinPts	
Cimarex Dos Equis 12-13 Federal Com #48H Rev0 RM 13Sept19 (Non-Def Plan)												Fail Minor
	116.61	32.81 115.32 32.81 115.31		N/A N/A	MAS = 10.00 (m)	0.00 26.00	0.00 26.00				Surface WRP	
	116.60 116.60	32.81 115.31 32.81 100.00	83.79 83.79	7.53	MAS = 10.00 (m) MAS = 10.00 (m)	2500.00	2500.00				MinPts	
	116.80 127.57	32.81 99.83 32.81 108.31	83.99 94.76	7.36 7.02	MAS = 10.00 (m) MAS = 10.00 (m)	2560.00 2930.00	2560.00 2929.00				MINPT-O-EOU MinPt-O-SF	
	166.52	50.94 132.13		4.99	OSF1.50	5560.00	5556.50	OSF<5.00			Enter Alert	
	81.76 68.71	84.95 24.66 84.72 11.79	-3.18 -16.01	1.44	OSF1.50 OSF1.50	9450.00 9510.00	9422.04 9466.23		OSF<1.50		Enter Minor MinPts	
	80.92	84.81 23.95	-3.89	1.43	OSF1.50	9570.00	9505.02		OSF>1.50		Exit Minor	
	272.88 2744.67	85.43 215.50 316.17 2533.46		4.84 13.07	OSF1.50 OSF1.50	9810.00 19753.92	9595.35 9600.00	OSF>5.00			Exit Alert MinPts	
Cimarex Dos Equis 12-13	2/44.07	316.17 2533.46	2428.50	13.07	OSF1.50	19753.92	9600.00				Millets	
Federal Com #49H Rev1 RM 17Feb20 (Def Plan)	59.98	32.81 58.70	27.18	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Warning Alert
	59.98	32.81 58.70	27.18	264185.57	MAS = 10.00 (m)	26.00	26.00				WRP	
	59.98 59.98	32.81 46.90 32.81 46.59		4.98 4.85	MAS = 10.00 (m) MAS = 10.00 (m)	1940.00 1990.00	1940.00 1990.00	OSF<5.00			Enter Alert MinPts	
	60.00	32.81 46.50		4.80	MAS = 10.00 (m)	2010.00	2010.00				MINPT-O-EOU	
	60.60 65.52	32.81 46.86 32.81 51.34		4.76 4.98	MAS = 10.00 (m)	2060.00	2060.00 2180.00	OSF>5.00			MinPt-O-SF Exit Alert	
	621.94	71.27 574.00		13.30	MAS = 10.00 (m) OSF1.50	2180.00 9450.00	9422.04	OSF>5.00			MinPt-O-SF	
	621.43 2767.94	71.18 573.55 315.35 2557.27	550.25 2452.59	13.31	OSF1.50 OSF1.50	9480.00 19753.92	9444.77 9600.00				MinPts MinPts	
	2/6/.94	315.35 2557.27	2452.59	13.21	USF 1.50	19753.92	9600.00				WIIIPIS	
Gulf Oil Hanagan D Federal #2 (Offset) Plugged Oil Blind 0ft- 5100ft (Def Survey)												Warning Alert
	4395.66	32.81 4394.38		N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4395.33 4395.11	32.81 4393.99 749.74 3894.85		96687.67 8.81	MAS = 10.00 (m) OSF1.50	26.00 2500.00	26.00 2500.00				MinPt-O-SF MinPt-CtCt	
	4442.46	1336.44 3551.07	3106.02	4.99	OSF1.50	4370.00	4366.50	OSF<5.00			Enter Alert	
	4442.47 4846.18	1589.03 3382.68 1457.05 3874.39	2853.44 3389.14	4.20 4.99	OSF1.50 OSF1.50	5180.00 7110.00	5176.50 7106.50	OSF>5.00			MinPts Exit Alert	
	5399.56	911.72 4791.32		8.89	OSF1.50	12570.00	9600.00				MinPt-CtCt	
	5399.57	911.74 4791.31	4487.82	8.89	OSF1.50	12580.00	9600.00				MINPT-O-EOU	

Offset Trajectory		eparation MAS (ft)	EOU (ft)	Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference T MD (ft)	rajectory TVD (ft)	Alert	 Risk Level Minor	Maior	Alert	Status
	5399.59	911.77	4791.32	4487.82	8.89	OSF1.50	12590.00	9600.00	Alert	 Wilnor	 Major	MinPt-O-ADP	
	6265.14 8984.90	1131.04 1390.59	5510.68 8057.41	5134.09 7594.31	8.32 9.70	OSF1.50 OSF1.50	15750.00 19753.92	9600.00 9600.00				MinPt-O-SF TD	
imarex Dos Equis 12-13													
ederal Com #9H Rev0 RM 6Dec19 (Non-Def Plan)													Pass
	1157.73 1157.73	32.81 32.81	1156.44 1156.44	1124.92 1124.92	N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 26.00	0.00 26.00				Surface WRP	
	286.40 286.33	73.66 73.59	236.45 236.44	212.73 212.74	5.98 5.99	OSF1.50 OSF1.50	9630.00 9640.00	9537.79 9542.63				MinPts MinPts	
	2742.97	319.11	2529.80	2423.86	12.94	OSF1.50	19753.92	9600.00				MinPts	
imarex Dos Equis 12 Federal													
om #3H Gyro+MWD 0ft to 5227ft MD (Def Survey)													Pass
	521.23 521.23	32.81 32.81	519.25 519.25	488.42 488.42	N/A 300639.15	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 10.00	0.00 10.00				Surface MinPts	
	521.26	32.81	519.27	488.45	30978.05	MAS = 10.00 (m)	26.00	26.00				WRP	
	514.23 515.37	32.81 32.81	505.56 503.83	481.42 482.56	76.54 53.67	MAS = 10.00 (m) MAS = 10.00 (m)	1420.00 2200.00	1420.00 2200.00				MinPts MINPT-O-EOU	
	514.47 514.54	32.81 32.81	499.12 499.03	481.66 481.73	38.34 37.90	MAS = 10.00 (m) MAS = 10.00 (m)	3000.00 3040.00	2998.73 3038.58				MinPts MINPT-O-EOU	
	519.04	32.81	501.43	486.23	33.07	MAS = 10.00 (m)	3503.18	3500.00				MinPt-O-SF	
	520.23 520.26	32.81 32.81	502.69 502.67	487.42 487.45	33.30 33.22	MAS = 10.00 (m) MAS = 10.00 (m)	3920.00 3930.00	3916.50 3926.50				MinPts MINPT-O-EOU	
	521.00	32.81	501.37 501.32	488.19	29.41 29.27	MAS = 10.00 (m)	4390.00	4386.50				MinPts MINPT-O-FOU	
	521.04 406.72	32.81 56.92	368.04	488.23 349.80	11.09	MAS = 10.00 (m) OSF1.50	4410.00 9640.00	4406.50 9542.63				MinPt-O-SF	
	406.02 405.98	56.77 56.70	367.44 367.46	349.24 349.28	11.09 11.11	OSF1.50 OSF1.50	9660.00 9670.00	9551.75 9556.03				MinPts MinPt-CtCt	
	1469.06	59.31	1428.86	1409.75	38.39	OSF1.50	11170.00	9600.00				MinPt-CtCt	
	1470.08 1471.70	66.25 70.80	1425.25 1423.84	1403.83 1400.90	34.26 32.03	OSF1.50 OSF1.50	11410.00 11580.00	9600.00 9600.00				MinPt-CtCt MINPT-O-EOU	
	1474.71 1477.69	75.33 79.18	1423.83 1424.25	1399.39 1398.51	30.12 28.67	OSF1.50 OSF1.50	11730.00 11860.00	9600.00 9600.00				MINPT-O-EOU MinPt-O-ADP	
	1480.68	88.54	1420.99	1392.14	25.62	OSF1.50	12130.00	9600.00				MinPt-CtCt	
	1481.17 1481.55	90.26 90.72	1420.34 1420.42	1390.92 1390.84	25.13 25.01	OSF1.50 OSF1.50	12200.00 12220.00	9600.00 9600.00				MINPT-O-EOU MinPt-O-ADP	
	1486.96 1487.72	101.49	1418.64 1417.87	1385.47	22.38 21.89	OSF1.50	12530.00	9600.00				MinPt-CtCt MINPT-O-EOU	
	1485.77	103.79 113.76	1417.87	1383.93 1372.00	19.91	OSF1.50 OSF1.50	12620.00 12910.00	9600.00 9600.00				MinPt-CtCt	
	1486.10 1486.45	114.88 115.32	1408.86 1408.91	1371.22 1371.13	19.72 19.65	OSF1.50 OSF1.50	12960.00 12980.00	9600.00 9600.00				MINPT-O-EOU MinPt-O-ADP	
	1490.69	124.06	1407.32	1366.63	18.29	OSF1.50	13230.00	9600.00				MinPt-CtCt	
	1490.38 1490.90	130.00 131.46	1403.05 1402.60	1360.38 1359.44	17.44 17.25	OSF1.50 OSF1.50	13410.00 13470.00	9600.00 9600.00				MinPt-CtCt MINPT-O-EOU	
	1491.52 1475.80	132.18 154.72	1402.74 1371.99	1359.34	17.16 14.47	OSF1.50 OSF1.50	13500.00 14150.00	9600.00 9600.00				MinPt-O-ADP MinPt-CtCt	
	1476.68	161.30	1368.49	1315.39	13.88	OSF1.50	14250.00	9600.00				MinPts	
	1479.94 5717.94	162.06 88.52	1371.23 5658.26	1317.87 5629.42	13.85 99.08	OSF1.50 OSF1.50	14330.00 19753.92	9600.00 9600.00				MinPt-O-SF TD	
inal Surveys - Cimarex Dos quis 13 Federal Com #9H IWD 0ft-15788ft (Surcon forrected) (Def Survey)													Pass
	5338.43 5338.43	32.81 32.81	5337.14 5337.12	5305.62 5305.62	N/A 186295.37	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 26.00	0.00 26.00				MinPts WRP	
	5339.43 5340.04	32.81 32.81	5335.87 5335.33	5306.62 5307.23	2348.10 1559.59	MAS = 10.00 (m) MAS = 10.00 (m)	490.00 770.00	490.00 770.00				MINPT-O-EOU MinPts	
	5340.01	32.81	5334.05	5307.20	1142.49	MAS = 10.00 (m)	1070.00	1070.00				MinPts	
	5339.96 5333.64	32.81 32.81	5333.51 5321.73	5307.15 5300.83	1033.78 494.97	MAS = 10.00 (m) MAS = 10.00 (m)	1170.00 2460.00	1170.00 2460.00				MINPT-O-EOU MinPts	
	5333.70	32.81	5321.58	5300.89	485.17	MAS = 10.00 (m)	2510.00	2510.00				MINPT-O-EOU	
	5417.39 5426.19	32.81 32.81	5400.87 5409.64	5384.58 5393.38	351.90 351.96	MAS = 10.00 (m) MAS = 10.00 (m)	3503.18 3600.00	3500.00 3596.57				MinPt-O-SF MinPt-O-SF	
	5436.80 5437.05	32.81	5419.25 5419.09	5404.00 5404.24	331.00 323.03	MAS = 10.00 (m) MAS = 10.00 (m)	4190.00 4280.00	4186.50 4276.50				MinPts MINPT-O-EOU	
	5421.36	43.89	5391.76	5377.47	189.66	OSF1.50	6870.00	6866.50				MinPt-CtCt	
	5421.92 5422.66	45.43 46.30	5391.29 5391.45	5376.49 5376.36	183.09 179.62	OSF1.50 OSF1.50	7090.00 7210.00	7086.50 7206.50				MINPT-O-EOU MinPt-O-ADP	
	5439.44 5429.89	55.98 60.07	5401.77 5389.50	5383.45 5369.82	148.42 137.90	OSF1.50 OSF1.50	8560.00 9200.00	8556.50 9196.19				MinPt-O-ADP MinPt-O-SF	
	445.77	119.67	365.65	326.09	5.62	OSF1.50	14810.00	9600.00				MinPt-CtCt	
	445.82 446.10	119.90 120.08	365.55 365.71	325.92 326.02	5.61 5.61	OSF1.50 OSF1.50	14820.00 14830.00	9600.00 9600.00				MinPts MinPt-O-SF	
	1491.67 1493.81	153.08 157.28	1389.27 1388.61	1338.59 1336.52	14.70 14.33	OSF1.50 OSF1.50	16310.00 16480.00	9600.00 9600.00				MINPT-O-EOU MINPT-O-EOU	
	1494.55	158.18	1388.76	1336.37	14.26	OSF1.50	16520.00	9600.00				MinPt-O-ADP	
	1496.78 1497.49	163.39 164.24	1387.51 1387.66	1333.38 1333.25	13.82 13.75	OSF1.50 OSF1.50	16720.00 16760.00	9600.00 9600.00				MINPT-O-EOU MinPt-O-ADP	
	1502.45	190.71	1374.97	1311.74	11.87	OSF1.50	17750.00	9600.00				MinPt-CtCt MINPT-O-EOU	
	1502.72 1503.04	191.54 191.95	1374.69 1374.73	1311.18 1311.09	11.82 11.80	OSF1.50 OSF1.50	17790.00 17810.00	9600.00 9600.00				MinPt-O-ADP	
	1502.46 1503.77	240.94 245.91	1341.50 1339.49	1261.53 1257.86	9.39 9.20	OSF1.50 OSF1.50	19570.00 19753.92	9600.00 9600.00				MinPt-CtCt MinPts	
narex Dos Equis 12-13 deral Com #10H Rev0 RM Dec19 (Non-Def Plan)		_											Pass
	1192.07 1192.07	32.81 32.81	1190.79 1190.79	1159.26 1159.26	N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 26.00	0.00 26.00				Surface WRP	
	735.62	72.67	686.58	662.95	15.53	OSF1.50	9200.00	9196.19				MinPt-O-SF	
	733.00 730.36	72.40 71.99	684.13 681.77	660.60 658.37	15.54 15.57	OSF1.50 OSF1.50	9300.00 9430.00	9292.63 9406.23				MinPt-O-SF MinPts	
	730.35 3382.81	71.96 319.73	681.78 3169.22	658.39 3063.07	15.58 15.93	OSF1.50 OSF1.50	9440.00 19753.92	9414.20 9600.00				MinPt-CtCt MinPts	
	5502.01	313.73	5103.22	3003.07	10.83	O3F 1.50	19133.92	3000.00				iviiIPtS	
rex Dos Equis 12 Federal #4H Gyro 0ft to 11189ft Def Survey)													Pass

Offset Trajectory		Separation		Allow	Sep.	Controlling	Reference	Trajectory		Risk Level		Alert	Status
	Ct-Ct (ft) 822.24	MAS (ft) 32.81	EOU (ft) 820.27	Dev. (ft) 789.44	Fact. N/A	Rule MAS = 10.00 (m)	MD (ft) 0.00	TVD (ft) 0.00	Alert	Minor	Major	MinPts	
	822.25	32.81	820.26	789.44	139186.16	MAS = 10.00 (m)	26.00	26.00				WRP	
	824.86 825.06	32.81 32.81	817.87 814.53	792.06 792.25	164.01 96.23	MAS = 10.00 (m) MAS = 10.00 (m)	1020.00 1950.00	1020.00 1950.00				MINPT-O-EOU MinPts	
	826.38	32.81	813.12	792.23	73.08	MAS = 10.00 (m)	2510.00	2510.00				MINPT-O-EOU	
	857.55	32.81	840.00	824.75	54.94	MAS = 10.00 (m)	3503.18	3500.00				MinPt-O-SF	
	860.71 862.92	32.81 32.81	843.11 845.92	827.90 830.11	54.99 57.32	MAS = 10.00 (m) MAS = 10.00 (m)	3600.00 3770.00	3596.57 3766.50				MinPt-O-SF MinPt-O-SF	
	845.26	42.68	816.15	802.58	31.08	OSF1.50	6620.00	6616.50				MinPt-CtCt	
	845.99 846.79	44.56 45.49	815.63 815.80	801.44 801.30	29.74 29.12	OSF1.50 OSF1.50	6900.00 7040.00	6896.50 7036.50				MINPT-O-EOU MinPt-O-ADP	
	862.37	54.02	825.69	808.35	24.80	OSF1.50 OSF1.50	8290.00	8286.50				MINPT-O-EOU	
	862.55 863.60		825.70 825.92	808.26 808.07	24.68 24.14	OSF1.50 OSF1.50	8330.00 8500.00	8326.50 8496.50				MINPT-O-EOU MinPt-O-ADP	
	871.14 870.92	60.03 60.02	830.47 830.25	811.11 810.90	22.46 22.46	OSF1.50 OSF1.50	9125.27 9200.00	9121.77 9196.19				MinPt-O-SF MinPt-O-SF	
	850.21	57.15	811.44	793.05	23.06	OSF1.50	9610.00	9527.57				MinPt-O-ADP	
	850.16 10109.45	57.09 64.01	811.43 10066.11	793.06 10045.43	23.08 244.40	OSF1.50 OSF1.50	9620.00 19753.92	9532.77 9600.00				MinPts TD	
		04.01	10000.11	10045.45	244.40	001 1.00	197 33.32	3000.00				15	
Cimarex Dos Equis 12 Fed 4H Gyro+MWD 10305ft to 15240f													
MD (Def Survey)	822.24	20.04	820.27	789.44	N/A	MAC 40.00 ()	0.00	0.00				MinPts	Pass
	822.25	32.81 32.81	820.26	789.44	139186.16	MAS = 10.00 (m) MAS = 10.00 (m)	26.00	26.00				WRP	
	824.86	32.81	817.87	792.06	164.01	MAS = 10.00 (m)	1020.00	1020.00				MINPT-O-EOU	
	825.06 826.38	32.81 32.81	814.53 813.12	792.25 793.57	96.23 73.08	MAS = 10.00 (m) MAS = 10.00 (m)	1950.00 2510.00	1950.00 2510.00				MinPts MINPT-O-EOU	
	857.55	32.81	840.00	824.75	54.94	MAS = 10.00 (m)	3503.18	3500.00				MinPt-O-SF	
	860.71 862.92	32.81 32.81	843.11 845.92	827.90 830.11	54.99 57.32	MAS = 10.00 (m) MAS = 10.00 (m)	3600.00 3770.00	3596.57 3766.50				MinPt-O-SF MinPt-O-SF	
	845.26	42.68	816.15	802.58	31.08	OSF1.50	6620.00	6616.50				MinPt-CtCt	
	845.99 846.79	44.56 45.49	815.63 815.80	801.44 801.30	29.74 29.12	OSF1.50 OSF1.50	6900.00 7040.00	6896.50 7036.50				MINPT-O-EOU MinPt-O-ADP	
	862.37	54.02	825.69	808.35	24.80	OSF1.50	8290.00	8286.50				MINPT-O-EOU	
	862.55 863.60	54.29 55.53	825.70 825.92	808.26 808.07	24.68 24.14	OSF1.50 OSF1.50	8330.00 8500.00	8326.50 8496.50				MINPT-O-EOU MinPt-O-ADP	
	871.14	60.03	830.47	811.11	22.46	OSF1.50	9125.27	9121.77				MinPt-O-SF	
	870.92 850.21	60.02 57.15	830.25 811.44	810.90 793.05	22.46 23.06	OSF1.50 OSF1.50	9200.00 9610.00	9196.19 9527.57				MinPt-O-SF MinPt-O-ADP	
	850.16	57.09	811.43	793.06	23.08	OSF1.50	9620.00	9532.77				MinPts	
	1583.06 1582.14	65.02 79.97	1539.05 1528.16	1518.04 1502.17	37.62 30.39	OSF1.50 OSF1.50	11060.00 11470.00	9600.00 9600.00				MINPT-O-EOU MinPt-CtCt	
	1582.55	81.10	1527.82	1501.45	29.96	OSF1.50	11520.00	9600.00				MINPT-O-EOU	
	1583.14 1560.49	81.79 137.29	1527.96 1468.31	1501.35 1423.20	29.72 17.28	OSF1.50 OSF1.50	11550.00 13060.00	9600.00 9600.00				MinPt-O-ADP MinPt-CtCt	
	1560.79	138.19	1468.00	1422.60	17.17	OSF1.50	13100.00	9600.00				MINPT-O-EOU	
	1557.24 1561.97	161.92 177.17	1448.64 1443.19	1395.32 1384.79	14.59 13.36	OSF1.50 OSF1.50	13730.00 14150.00	9600.00 9600.00				MinPt-CtCt MINPT-O-EOU	
	1564.99	206.04	1426.97	1358.95	11.49	OSF1.50	14280.00	9600.00				MinPts	
	1566.34 5724.59	206.31 99.33	1428.14 5657.71	1360.03 5625.26	11.48 88.17	OSF1.50 OSF1.50	14320.00 19753.92	9600.00 9600.00				MinPt-O-SF TD	
Cimarex Dos Equis 12-13 Federal Com #11H Rev0 RM													
26Dec19 (Non-Def Plan)													Pass
	1212.09 1212.09	32.81 32.81	1210.81 1210.81	1179.28 1179.28	N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 26.00	0.00 26.00				Surface WRP	
	1212.09	32.81	1195.49	1179.28	79.08	MAS = 10.00 (m)	2500.00	2500.00				MinPts	
	1212.26 1237.61	32.81 34.05	1195.29 1214.48	1179.46 1203.56	77.20 56.60	MAS = 10.00 (m) OSF1.50	2560.00 3600.00	2560.00 3596.57				MINPT-O-EOU MinPt-O-SF	
	1238.21	84.81	1181.24	1153.40	22.21	OSF1.50	9300.00	9292.63				MinPt-O-SF	
	1238.12 2976.28	84.80 316.52	1181.16 2764.84	1153.32 2659.77	22.22 14.16	OSF1.50 OSF1.50	9340.00 19753.92	9329.33 9600.00				MinPts MinPts	
Cimarex Dos Equis 12-13	•												
Federal Com #77H Rev1 RM 17Feb20 (Def Plan)													Pass
	1340.05	32.81	1338.76	1307.24	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1340.04 1337.71	32.81 32.81	1338.76 1319.03	1307.23 1304.90	N/A 76.83	MAS = 10.00 (m) MAS = 10.00 (m)	26.00 2850.00	26.00 2849.30				WRP MinPts	
	1337.74	32.81	1318.97	1304.93	76.43	MAS = 10.00 (m)	2870.00	2869.23				MINPT-O-EOU	
	1390.90 1633.40	32.81 47.37	1369.37 1601.39	1358.10 1586.03	68.64 53.13	MAS = 10.00 (m) OSF1.50	3600.00 5740.00	3596.57 5736.50				MinPt-O-SF MinPt-O-SF	
	1638.13	76.59	1586.63	1561.53	32.60	OSF1.50	9200.00	9196.19				MinPt-O-SF	
	1628.53 1626.60	76.22 76.05	1577.29 1575.47	1552.31 1550.55	32.57 32.61	OSF1.50 OSF1.50	9440.00 9530.00	9414.20 9479.79				MinPt-O-SF MinPts	
	3678.57	314.19	3468.68	3364.38	17.63	OSF1.50	19753.92	9600.00				MinPts	
Cimarex Dos Equis 12-13													
Federal Com #76H Rev1 RM 17Feb20 (Def Plan)													Pass
	1359.99	32.81 32.81	1358.70	1327.18	N/A	MAS = 10.00 (m) MAS = 10.00 (m)	0.00	0.00				Surface	
	1359.98 1359.98	32.81	1358.70 1343.39	1327.18 1327.18	N/A 88.79	MAS = 10.00 (m) MAS = 10.00 (m)	26.00 2500.00	26.00 2500.00				WRP MinPts	
	1360.04	32.81	1343.31	1327.23	87.99	MAS = 10.00 (m)	2530.00	2530.00				MINPT-O-EOU	
	1442.21 1664.83	32.81 42.34	1421.51 1636.17	1409.40 1622.49	74.22 60.78	MAS = 10.00 (m) OSF1.50	3503.18 5260.00	3500.00 5256.50				MinPt-O-SF MinPt-O-SF	
	1670.75		1620.22	1595.60	33.90	OSF1.50	9200.00	9196.19				MinPt-O-SF	
	1646.23 1646.18	69.89 69.83	1599.21 1599.20	1576.34 1576.35	35.97 36.00	OSF1.50 OSF1.50	9850.00 9860.00	9599.25 9599.71				MinPt-O-ADP MINPT-O-EOU	
	1646.12	69.55	1599.32	1576.57	36.14	OSF1.50	9920.00	9600.00				MinPt-CtCt	
	1647.85	319.07	1434.71	1328.79	7.77	OSF1.50	19753.92	9600.00				MinPts	
Cimarex Dos Equis 12-13 Federal Com #75H Rev1 RM													
17Feb20 (Def Plan)	1379.92	32.81	1378.64	1347.11	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1379.92	32.81	1378.63	1347.11	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	1379.92 1379.97	32.81 32.81	1363.33 1363.26	1347.11 1347.17	90.09 89.35	MAS = 10.00 (m) MAS = 10.00 (m)	2500.00 2530.00	2500.00 2530.00				MinPts MINPT-O-EOU	
	1467.99	32.81	1448.09	1435.18	78.79	MAS = 10.00 (m)	3503.18	3500.00				MinPt-O-SF	
	1780.10 1786.07	44.06 70.83	1750.30 1738.42	1736.04 1715.24	62.38 38.50	OSF1.50 OSF1.50	5780.00 9200.00	5776.50 9196.19				MinPt-O-SF MinPt-O-SF	

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Offset Trajectory		Separation MAS (ft) E	OU (ft)	Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference T MD (ft)	TVD (ft)	Alert	sk Level Minor	Major	Alert	Status
	1746.22 1746.16	65.79 65.71	1701.93 1701.92	1680.43 1680.45	40.58 40.63	OSF1.50 OSF1.50	9990.00 10020.00	9600.00 9600.00				MinPt-O-ADP MINPT-O-EOU	
	1746.13 1747.84		1701.94 1534.17	1680.49 1427.97	40.67 8.22	OSF1.50 OSF1.50	10060.00 19753.92	9600.00 9600.00				MinPt-CtCt MinPts	
Cimarex Dos Equis 12-13	1747.04	313.00	1004.17	1427.07	0.22	001 1.00	197 33.32	3000.00				Will to	
Federal Com #91H Rev1 RM 14Feb20 (Def Plan)													Pass
	2238.28 2238.27		2236.99 2236.98	2205.47	N/A N/A	MAS = 10.00 (m)	0.00	0.00				Surface WRP	
	1465.41		1415.99	2205.46 1392.41	31.02	MAS = 10.00 (m) OSF1.50	26.00 9140.00	26.00 9136.50				MinPt-O-SF	
	1436.24 1436.18	68.06 68.00	1390.09 1390.08	1368.18 1368.18	32.71 32.74	OSF1.50 OSF1.50	9876.74 9900.00	9600.00 9600.00				MinPt-O-ADP MINPT-O-EOU	
	1436.16 1437.90	67.91 322.25	1390.11 1222.30	1368.24 1115.65	32.78 6.73	OSF1.50 OSF1.50	9940.00 19753.92	9600.00 9600.00				MinPt-CtCt MinPts	
Cimarex Dos Equis 12-13	1407.30	322.23	1222.50	1110.00	0.75	001 1.00	197 33.32	3000.00				Will to	
Federal Com #73H Rev5 RM 19Dec19 (Def Plan)													Pass
	1445.36 1445.36		1444.07 1444.07	1412.55 1412.55	N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 26.00	0.00 26.00				Surface WRP	
	1439.05	45.62	1408.20	1393.43	48.65	OSF1.50	5000.00	4996.50				MinPt-CtCt	
	1439.10 1439.16	45.84 45.91	1408.11 1408.12	1393.26 1393.25	48.41 48.34	OSF1.50 OSF1.50	5030.00 5040.00	5026.50 5036.50				MINPT-O-EOU MinPt-O-ADP	
	1586.67 1589.84		1547.74 1550.83	1528.91 1531.97	42.12 42.11	OSF1.50 OSF1.50	6810.00 6900.00	6806.50 6896.50				MinPt-O-SF MinPt-O-SF	
	1563.18	77.91	1510.81	1485.27	30.58	OSF1.50	9570.00	9505.02				MinPt-O-SF	
	1561.88 1561.88	77.79 77.77	1509.59 1509.60	1484.09 1484.10	30.60 30.60	OSF1.50 OSF1.50	9630.00 9640.00	9537.79 9542.63				MinPts MinPt-CtCt	
	3240.81	312.94	3031.76	2927.88	15.59	OSF1.50	19753.92	9600.00				MinPts	
Cimarex Dos Equis 12-13 Federal Com #5H Rev5 RM													
19Dec19 (Def Plan)	1465.23	32.81	1463.95	1432.42	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1465.23 1463.94		1463.94 1445.62	1432.42 1431.13	N/A 85.86	MAS = 10.00 (m) MAS = 10.00 (m)	26.00 2790.00	26.00 2789.53				WRP MinPts	
	1463.98	32.81	1445.57	1431.17	85.43	MAS = 10.00 (m)	2810.00	2809.45				MINPT-O-EOU	
	1519.39 1886.40		1498.48 1859.03	1486.59 1845.99	77.36 72.27	MAS = 10.00 (m) OSF1.50	3503.18 5110.00	3500.00 5106.50				MinPt-O-SF MinPt-O-SF	
	2537.77 2540.19		2495.49 2491.02	2474.99 2467.08	61.87 53.02	OSF1.50 OSF1.50	7690.00 9200.00	7686.50 9196.19				MinPt-O-SF MinPt-O-SF	
	2522.24 2522.22		2473.92 2473.91	2450.40 2450.41	53.60 53.62	OSF1.50 OSF1.50	9610.00 9620.00	9527.57 9532.77				MinPt-O-ADP MinPts	
	3790.99		3584.40	3481.75	18.46	OSF1.50	19753.92	9600.00				MinPts	
Cimarex Dos Equis 13 Federal													
#2H XEM + MWD 0ft to 1531 (Def Survey)			504										Pass
	5619.89 5619.87	32.81	5617.91 5617.89	5587.08 5587.06	N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 10.00	0.00 10.00				Surface MinPt-O-SF	
	5619.87 5619.87	32.81 32.81	5617.89 5617.89	5587.06 5587.06	N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m)	20.00 26.00	20.00 26.00				MinPts WRP	
	5623.77	32.81	5614.44 5701.37	5590.96	764.62 330.28	MAS = 10.00 (m)	1280.00	1280.00				MINPT-O-EOU MinPt-O-SF	
	5720.66 5729.05	32.81	5709.74	5687.86 5696.24	330.53	MAS = 10.00 (m) MAS = 10.00 (m)	3503.18 3600.00	3500.00 3596.57				MinPt-O-SF	
	5815.73 5810.94		5774.45 5769.66	5754.80 5750.00	147.92 147.80	OSF1.50 OSF1.50	9125.27 9200.00	9121.77 9196.19				MinPt-O-SF MinPt-O-SF	
	1709.03 1709.26	123.37 123.98	1626.13 1625.94	1585.66 1585.28	21.09 20.99	OSF1.50 OSF1.50	14950.00 14980.00	9600.00 9600.00				MinPt-CtCt MINPT-O-EOU	
	1709.45 1731.47	124.18	1626.00 1645.50	1585.27 1603.50	20.96 20.59	OSF1.50 OSF1.50	14990.00 15230.00	9600.00 9600.00				MinPt-O-ADP MinPt-O-SF	
	2233.03	235.35	2075.47	1997.68	14.34	OSF1.50	18120.00	9600.00				MinPt-CtCt	
	2249.40 2249.54	314.06 314.21	2039.37	1935.35 1935.33	10.80 10.80	OSF1.50 OSF1.50	19520.00 19530.00	9600.00 9600.00				MINPT-O-EOU MinPt-O-ADP	
	2253.33 2264.15		2042.42 2052.82	1937.96 1948.15	10.78 10.81	OSF1.50 OSF1.50	19630.00 19753.92	9600.00 9600.00				MinPt-O-SF TD	
Cimarex Dos Equis 12 Federal Com #2H Pilot Gyro+MWD 0ff													
to 12650ft (Def Survey)	1816.79	32.81	1814.81	1783.98	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1816.76 1809.39	32.81	1814.78 1798.62	1783.95 1776.58	N/A 205.76	MAS = 10.00 (m) MAS = 10.00 (m)	26.00 1620.00	26.00 1620.00				WRP MinPts	
	1809.48	32.81	1798.54	1776.67	201.60	MAS = 10.00 (m)	1690.00	1690.00				MINPT-O-EOU	
	1809.47 1808.77	32.81 32.81	1797.77 1795.17	1776.66 1775.96	185.93 155.39	MAS = 10.00 (m) MAS = 10.00 (m)	1950.00 2350.00	1950.00 2350.00				MinPts MinPts	
	1808.86 1796.15	32.81	1795.07 1777.90	1776.05 1763.34	152.96 110.28	MAS = 10.00 (m) MAS = 10.00 (m)	2410.00 3503.18	2410.00 3500.00				MINPT-O-EOU MinPts	
	1796.14	32.81	1777.92	1763.33	110.47	MAS = 10.00 (m)	3520.00	3516.76				MinPts	
	1797.91 1791.17	46.63	1779.43 1759.41	1765.10 1744.54	108.80 60.16	MAS = 10.00 (m) OSF1.50	4090.00 7180.00	4086.50 7176.50				MINPT-O-EOU MinPt-CtCt	
	1791.25 1791.31		1759.31 1759.32	1744.35 1744.34	59.80 59.72	OSF1.50 OSF1.50	7220.00 7230.00	7216.50 7226.50				MINPT-O-EOU MinPt-O-ADP	
	1790.20 1752.37	59.63	1749.77 1714.01	1730.57 1695.87	46.56 48.24	OSF1.50 OSF1.50	9200.00 9670.00	9196.19 9556.03				MinPt-O-SF MinPt-O-ADP	
	1752.33	56.43	1714.01	1695.89	48.29	OSF1.50	9680.00	9560.12				MinPts	
	10283.35	70.61 1	10235.61	10212.74	224.71	OSF1.50	19753.92	9600.00				TD	
Cimarex Dos Equis 12 Federal Com #2H ST01 Gyro+MWD 10486ft to 13433ft MD (Def Survey)													Pass
	1816.79 1816.76		1814.81 1814.78	1783.98 1783.95	N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 26.00	0.00 26.00				Surface WRP	
	1809.39	32.81	1798.62 1798.54	1776.58	205.76	MAS = 10.00 (m)	1620.00	1620.00				MinPts	
	1809.48 1809.47	32.81	1797.77	1776.67 1776.66	201.60 185.93	MAS = 10.00 (m) MAS = 10.00 (m)	1690.00 1950.00	1690.00 1950.00				MINPT-O-EOU MinPts	
	1808.77 1808.86		1795.17 1795.07	1775.96 1776.05	155.39 152.96	MAS = 10.00 (m) MAS = 10.00 (m)	2350.00 2410.00	2350.00 2410.00				MinPts MINPT-O-EOU	
	1796.15 1796.14	32.81	1777.90	1763.34 1763.33	110.28	MAS = 10.00 (m) MAS = 10.00 (m)	3503.18 3520.00	3500.00 3516.76				MinPts MinPts	
	1797.91	32.81	1779.43	1765.10	108.80	MAS = 10.00 (m)	4090.00	4086.50				MINPT-O-EOU	
	1791.17 1791.25	46.63 46.90	1759.41 1759.31	1744.54 1744.35	60.16 59.80	OSF1.50 OSF1.50		7176.50 7216.50				MinPt-CtCt MINPT-O-EOU	

Offset Trajectory		Separation	ı	Allow	Sep.	Controlling	Reference	Trajectoni		Risk Level		Alert	Status
Offset Trajectory	Ct-Ct (ft)		EOU (ft)	Dev. (ft)	Sep. Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	Alert	Otatus
	1791.31	46.96 59.63	1759.32	1744.34	59.72	OSF1.50	7230.00	7226.50 9196.19				MinPt-O-ADP	
	1790.20 1752.37		1749.77 1714.01	1730.57 1695.87	46.56 48.24	OSF1.50 OSF1.50	9200.00 9670.00	9196.19				MinPt-O-SF MinPt-O-ADP	
	1752.33		1714.01	1695.89	48.29	OSF1.50	9680.00	9560.12				MinPts	
	2179.02		2126.76	2101.63	43.30	OSF1.50	11030.00	9600.00				MINPT-O-EOU	
	2179.62		2126.86	2101.47	42.89	OSF1.50	11060.00	9600.00				MinPt-O-ADP MinPt-O-ADP	
	2209.15 2223.09		2147.22 2153.38	2117.25 2119.52	36.82 32.80	OSF1.50 OSF1.50	11550.00 11740.00	9600.00 9600.00				MinPts	
	2229.24	108.07	2156.53	2121.17	31.49	OSF1.50	11850.00	9600.00				MINPT-O-EOU	
	2230.28		2156.87	2121.16	31.20	OSF1.50	11870.00	9600.00				MinPt-O-ADP	
	2240.46 2245.71		2160.95 2114.20	2122.19 2049.44	28.87 17.32	OSF1.50 OSF1.50	12060.00 12280.00	9600.00 9600.00				MinPts MinPts	
	2248.48	196.78	2116.64	2051.70	17.30	OSF1.50	12370.00	9600.00				MinPt-O-SF	
	7827.12	104.32	7756.92	7722.81	114.70	OSF1.50	19753.92	9600.00				TD	
Cimarex Dos Equis 12 Federal Com #2H ST02 Gyro+MWD 13330ft to 15399ft MD (Def													
Survey)													Pass
	1816.79 1816.76	32.81 32.81	1814.81 1814.78	1783.98 1783.95	N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 26.00	0.00 26.00				Surface WRP	
	1809.39	32.81	1798.62	1776.58	205.76	MAS = 10.00 (m)	1620.00	1620.00				MinPts	
	1809.48		1798.54	1776.67	201.60	MAS = 10.00 (m)	1690.00	1690.00				MINPT-O-EOU	
	1809.47 1808.77	32.81 32.81	1797.77 1795.17	1776.66 1775.96	185.93 155.39	MAS = 10.00 (m) MAS = 10.00 (m)	1950.00 2350.00	1950.00 2350.00				MinPts MinPts	
	1808.86		1795.07	1776.05	152.96	MAS = 10.00 (m)	2410.00	2410.00				MINPT-O-EOU	
	1796.15	32.81	1777.90	1763.34	110.28	MAS = 10.00 (m)	3503.18	3500.00				MinPts	
	1796.14	32.81	1777.92	1763.33	110.47	MAS = 10.00 (m)	3520.00	3516.76				MinPts	
	1797.91 1791.17	32.81 46.63	1779.43 1759.41	1765.10 1744.54	108.80 60.16	MAS = 10.00 (m) OSF1.50	4090.00 7180.00	4086.50 7176.50				MINPT-O-EOU MinPt-CtCt	
	1791.25	46.90	1759.31	1744.35	59.80	OSF1.50	7220.00	7216.50				MINPT-O-EOU	
	1791.31		1759.32	1744.34	59.72	OSF1.50	7230.00	7226.50				MinPt-O-ADP	
	1790.20 1752.37		1749.77 1714.01	1730.57 1695.87	46.56 48.24	OSF1.50 OSF1.50	9200.00 9670.00	9196.19 9556.03				MinPt-O-SF MinPt-O-ADP	
	1752.37	56.43	1714.01	1695.89	48.29	OSF1.50	9680.00	9560.12				MinPts	
	2179.02	77.39	2126.76	2101.63	43.30	OSF1.50	11030.00	9600.00				MINPT-O-EOU	
	2179.62		2126.86	2101.47	42.89	OSF1.50	11060.00	9600.00				MinPt-O-ADP	
	2209.15 2223.09		2147.22 2153.38	2117.25 2119.52	36.82 32.80	OSF1.50 OSF1.50	11550.00 11740.00	9600.00 9600.00				MinPt-O-ADP MinPts	
	2229.24	_	2156.53	2121.17	31.49	OSF1.50	11850.00	9600.00				MINPT-O-EOU	
	2230.28	109.12	2156.87	2121.16	31.20	OSF1.50	11870.00	9600.00				MinPt-O-ADP	
	2240.46		2160.95	2122.19	28.87	OSF1.50	12060.00	9600.00				MinPts	
	2245.07 2296.24		2160.07 2188.18	2118.55 2135.14	27.02 21.63	OSF1.50 OSF1.50	12190.00 12990.00	9600.00 9600.00				MinPts MinPts	
	2299.98	202.59	2164.25	2097.38	17.18	OSF1.50	13780.00	9600.00				MinPt-CtCt	
	2300.79		2163.44	2095.75	16.98	OSF1.50	13870.00	9600.00				MINPT-O-EOU	
	2305.38 2307.09		2122.98	2032.77	12.77 12.76	OSF1.50 OSF1.50	14230.00 14300.00	9600.00 9600.00				MinPts MinPt-O-SF	
	6005.57		5909.41	5862.32	63.75	OSF1.50	19753.92	9600.00				TD	
Curtis Hankamer Gulf Hanagar Federal #3 (Offset) Plugged Oi	il												
nc Only 0ft-5049ft (Def Surve)	y) 1953.04	32.81	1951.76	1920.23_	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1952.59		1951.25	1919.78	39218.28	MAS = 10.00 (m)	26.00	26.00				MinPt-O-SF	
	1948.18 1946.45	36.91 102.55	1923.14 1877.65	1911.26 1843.90	81.97 28.81	OSF1.50 OSF1.50	640.00 1990.00	640.00 1990.00				MinPt-CtCt MinPt-CtCt	
	1940.43		1861.14	1816.79	21.98	OSF1.50	2610.00	2609.97				MINPT-O-EOU	
	1953.87		1861.71	1816.27	21.49	OSF1.50	2670.00	2669.90				MinPt-O-ADP	
	2028.09	240.82	1867.12	1787.27	12.69	OSF1.50	4620.00	4616.50				MinPt-CtCt	
	2029.53 2031.25	245.00 247.05	1865.76 1866.12	1784.53 1784.20	12.48 12.39	OSF1.50 OSF1.50	4740.00 4800.00	4736.50 4796.50				MINPT-O-EOU MinPt-O-ADP	
	2039.70		1862.37	1774.36	11.58	OSF1.50	5120.00	5116.50				MinPts	
	4582.44	64.90	4538.74	4517.53	108.02	OSF1.50	11270.00	9600.00				MinPt-CtCt	
	4582.76	00.00	4538.53	4517.06	106.70	OSF1.50	11320.00	9600.00				MINPT-O-EOU	
	4583.21 6191.83	212.08	4538.62 6050.01	4516.98 5979.75	105.82 44.05	OSF1.50 OSF1.50	11350.00 15430.00	9600.00 9600.00				MinPt-O-ADP MinPt-O-SF	
	9646.02		9468.70	9380.68	54.79	OSF1.50	19753.92	9600.00				TD	
imarex Dos Equis 12-13 ederal Com #90H Rev1 RM													
Feb20 (Def Plan)	2258.26	32.81	2256.97	2225.45	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	2258.25		2256.96	2225.44	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	2245.08 2122.80		2189.33 2068.78	2162.10 2042.55	41.20 40.44	OSF1.50 OSF1.50	8970.00 9660.00	8966.50 9551.75				MinPts MinPt-O-SF	
	2122.80		2062.50	2036.36	40.44	OSF1.50	9710.00	9551.75 9571.24				MinPt-O-SF	
	2096.10	78.87	2042.99	2017.24	40.66	OSF1.50	10070.00	9600.00				MinPts	
	2096.10		2043.01	2017.26	40.68	OSF1.50	10080.00	9600.00				MinPt-CtCt	
imarex Dos Equis 12-13	2097.80	317.27	1885.76	1780.53	9.96	OSF1.50	19753.92	9600.00				MinPts	
ederal Com #89H Rev1 RM 4Feb20 (Def Plan)												F	Pass
	2278.23		2276.94	2245.42	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	2278.22 2278.22	32.81 32.81	2276.93 2264.78	2245.41 2245.41	N/A 187.43	MAS = 10.00 (m) MAS = 10.00 (m)	26.00 2000.00	26.00 2000.00				WRP MinPts	
	2278.27		2264.69	2245.41	185.32	MAS = 10.00 (m)	2030.00	2030.00				MINPT-O-EOU	
	2442.97	32.81	2423.35	2410.16	133.24	MAS = 10.00 (m)	3600.00	3596.57				MinPt-O-SF	
	2782.71		2750.99	2735.77	91.39	OSF1.50	5920.00	5916.50				MinPt-O-SF	
	2783.06 2756.13		2734.64 2710.92	2711.07 2688.95	59.02 62.71	OSF1.50 OSF1.50	9190.00 9870.00	9186.30 9599.95				MinPt-O-SF MinPt-O-ADP	
	2756.06		2710.92	2688.96	62.78	OSF1.50	9890.00	9600.00				MINPT-O-EOU	
	2755.98	66.86	2710.98	2689.12	63.02	OSF1.50	9960.00	9600.00				MinPt-CtCt	
	2757.72	320.40	2543.69	2437.32	12.96	OSF1.50	19753.92	9600.00				MinPts	
imarex Dos Equis 12-13 ederal Com #88H Rev1 RM 4Feb20 (Def Plan)												F	Pass
	2298.21 2298.20		2296.92	2265.40 2265.39	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	2298.20	32.81 32.81	2296.91 2286.65	2265.39	N/A 223.81	MAS = 10.00 (m) MAS = 10.00 (m)	26.00 1700.00	26.00 1700.00				WRP MinPts	
	2298.24	32.81	2286.56	2265.44	220.81	MAS = 10.00 (m)	1730.00	1730.00				MINPT-O-EOU	
	2528.49	32.81	2508.95	2495.68	138.42	MAS = 10.00 (m)	3600.00	3596.57				MinPt-O-SF	

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Offset Trajectory		eparation MAS (ft)	EOU (ft)	Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference 1 MD (ft)	Trajectory TVD (ft)	Alert	k Level Minor		Major	Alert	Status
	3439.57 3439.21	78.00 77.53	3387.14 3387.09	3361.57 3361.67	67.23 67.63	OSF1.50 OSF1.50	9040.00 9200.00	9036.50 9196.19				.9	MinPt-O-SF MinPt-O-SF	
	3415.90	74.21	3366.00	3341.69	70.24	OSF1.50	9870.00	9599.95					MinPts	
	3415.88 3417.62	74.13 326.64	3366.03 3199.43	3341.75 3090.98	70.31 15.75	OSF1.50 OSF1.50	9910.00 19753.92	9600.00 9600.00					MinPt-CtCt MinPts	
Cimarex Dos Equis 12-13 Federal Com #87H Rev0 RM														Pass
13Sept19 (Non-Def Plan)	2341.62	32.81	2340.33	2308.81	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	rdss
	2341.61	32.81 84.56	2340.32 2243.53	2308.80 2215.79	N/A 41.44	MAS = 10.00 (m) OSF1.50	26.00 9620.00	26.00 9532.77					WRP MinPt-O-SF	
	2298.77 3623.37	84.42 313.63	2242.05 3413.86	2214.35 3309.74	41.48 17.39	OSF1.50 OSF1.50	9700.00 19750.00	9567.73 9600.00					MinPts MinPt-CtCt	
	3623.38	313.68	3413.83	3309.70	17.39	OSF1.50	19753.92	9600.00					MinPts	
Cimarex Dos Equis 12-13 Federal Com #86H Rev1 RM														
03Dec19 (Def Plan)	2361.57	32.81	2360.28	2328.76	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	Pass
	2361.56	32.81	2360.27	2328.75	N/A	MAS = 10.00 (m)	26.00	26.00					WRP	
	2361.56 2361.61	32.81 32.81	2351.27 2351.17	2328.75 2328.80	262.07 257.97	MAS = 10.00 (m) MAS = 10.00 (m)	1500.00 1530.00	1500.00 1530.00					MinPts MINPT-O-EOU	
	2605.35 3436.22	32.81 79.24	2585.21 3382.97	2572.54 3356.98	138.13 66.10	MAS = 10.00 (m) OSF1.50	3600.00 9000.00	3596.57 8996.50					MinPt-O-SF MinPt-O-SF	
	3436.78 3428.15	79.02	3383.67 3375.81	3357.76 3350.28	66.29 67.12	OSF1.50 OSF1.50	9200.00	9196.19					MinPt-O-SF MinPts	
	4397.75	77.87 309.57	4190.94	4088.18	21.39	OSF1.50	9540.00 19753.92	9486.34 9600.00					MinPts	
Cimarex Dos Equis 12-13														
Federal Com #6H - Rev2 RM 03Dec19 (Def Plan)														Pass
	2381.51 2381.50	32.81 32.81	2380.23 2380.22	2348.71 2348.69	N/A N/A	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 26.00	0.00 26.00					Surface WRP	
	2381.50 2381.55	32.81 32.81	2371.21 2371.12	2348.69 2348.74	264.28 260.29	MAS = 10.00 (m) MAS = 10.00 (m)	1500.00 1530.00	1500.00 1530.00					MinPts MINPT-O-EOU	
	2601.27	32.81	2581.63	2568.46	141.71	MAS = 10.00 (m)	3600.00	3596.57					MinPt-O-SF	
	2836.89 2837.21	43.06 72.14	2807.75 2788.69	2793.82 2765.07	101.81 60.04	OSF1.50 OSF1.50	5380.00 9200.00	5376.50 9196.19					MinPt-O-SF MinPt-O-SF	
	2808.86 2808.85	70.75 70.72	2761.27 2761.27	2738.11 2738.12	60.63 60.65	OSF1.50 OSF1.50	9700.00 9710.00	9567.73 9571.24					MinPt-O-ADP MinPts	
	4443.87	309.52	4237.09	4134.35	21.62	OSF1.50	19753.92	9600.00					MinPts	
Continental Wimberly #4 (Offset) Plugged Oil Inc Only 0 5030ft (Def Survey)	Oft-													Pass
Joseff (Del Gulvey)	2773.39	32.81	2772.11	2740.58	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	1 633
	2773.18 2773.15	32.81 32.81	2771.87 2771.84	2740.37 2740.34	115248.20 129253.39	MAS = 10.00 (m) MAS = 10.00 (m)	20.00 26.00	20.00 26.00					MinPt-O-SF WRP	
	2773.12 2774.03	32.81 65.13	2771.80 2730.18	2740.31 2708.90	80381.94 65.14	MAS = 10.00 (m) OSF1.50	40.00 1310.00	40.00 1310.00					MinPts MinPt-CtCt	
	2772.87 2785.89	107.32 151.77	2700.90 2684.28	2665.56 2634.12	39.21 27.76	OSF1.50 OSF1.50	2120.00 2950.00	2120.00 2948.92					MinPt-CtCt MINPT-O-EOU	
	2799.70	168.00	2687.26	2631.69	25.18	OSF1.50	3300.00	3297.59					MinPt-O-ADP	
	2812.80 2814.63	207.96 260.73	2673.73 2640.38	2604.84 2553.90	20.41 16.27	OSF1.50 OSF1.50	4050.00 5070.00	4046.50 5066.50					MinPt-CtCt MinPt-CtCt	
	2814.64 4993.73	260.83 118.74	2640.33 4914.15	2553.82 4875.00	16.26 63.76	OSF1.50 OSF1.50	5080.00 11250.00	5076.50 9600.00					MinPts MinPt-CtCt	
	4993.82	118.97	4914.08	4874.85 4874.84	63.63 63.59	OSF1.50 OSF1.50	11280.00 11290.00	9600.00					MINPT-O-EOU MinPt-O-ADP	
	4993.89 6348.39	119.06 213.28	4914.09 6205.78	6135.11	44.91	OSF1.50	15170.00	9600.00 9600.00					MinPt-O-SF	
	9861.55	266.08	9683.73	9595.47	55.86	OSF1.50	19753.92	9600.00					TD	
Cimarex Dos Equis 12 Federal Com #1H ST01 Gyro+MWD 10506ft to 15399ft MD (Def														
Survey)	2985.21	32.81	2983.23	2952.40	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	Pass
	2985.19 2985.20	32.81 32.81	2983.21 2983.21	2952.38 2952.39	N/A 804745.27	MAS = 10.00 (m) MAS = 10.00 (m)	10.00 26.00	10.00 26.00					MinPts WRP	
	2985.28 2990.26	32.81 32.81	2983.17 2979.81	2952.48 2957.45	22363.46 352.71	MAS = 10.00 (m) MAS = 10.00 (m)	70.00 1830.00	70.00 1830.00					MINPT-O-EOU MinPts	
	2970.05 2959.31	32.81 32.81	2951.73 2940.29	2937.24 2926.51	182.11 173.64	MAS = 10.00 (m) MAS = 10.00 (m)	3510.00 4180.00	3506.79 4176.50					MinPt-O-SF MinPts	
	2959.35	32.81	2940.26	2926.54	172.91	MAS = 10.00 (m)	4200.00	4196.50					MINPT-O-EOU	
	3048.00 3044.72	62.05 62.08	3005.91 3002.58	2985.95 2982.64	76.30 76.29	OSF1.50 OSF1.50	9125.27 9200.00	9121.77 9196.19					MinPt-O-SF MinPt-O-SF	
	2995.26 2995.25	58.40 58.35	2955.50 2955.53	2936.86 2936.90	80.26 80.33	OSF1.50 OSF1.50	9750.00 9760.00	9583.31 9585.83					MinPts MinPt-CtCt	
	3419.42 3420.57	171.18 174.64	3304.64 3303.48	3248.25 3245.93	30.30 29.70	OSF1.50 OSF1.50	12840.00 12960.00	9600.00 9600.00					MinPt-CtCt MINPT-O-EOU	
	3428.74	204.96	3291.44	3223.78	25.32	OSF1.50	13520.00	9600.00					MinPt-CtCt	
	3421.77 3421.82	261.22 261.40	3246.96 3246.89	3160.55 3160.42	19.79 19.77	OSF1.50 OSF1.50	14220.00 14240.00	9600.00 9600.00					MinPt-CtCt MINPT-O-EOU	
	3421.89 3428.77	261.48 262.74	3246.91 3252.95	3160.41 3166.02	19.77 19.71	OSF1.50 OSF1.50	14250.00 14440.00	9600.00 9600.00					MinPt-O-ADP MinPt-O-SF	
	6505.50	182.93	6382.89	6322.57	53.91	OSF1.50	19753.92	9600.00					TD	
Cimarex Dos Equis 12 Federal Com #1H Gyro 0ft to 11268ft MD (Def Survey)	I													Pass
_ (_ 3. 30.10))	2985.21	32.81	2983.23	2952.40	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
	2985.19 2985.20	32.81 32.81	2983.21 2983.21	2952.38 2952.39	N/A 804745.27	MAS = 10.00 (m) MAS = 10.00 (m)	10.00 26.00	10.00 26.00					MinPts WRP	
	2985.28 2990.26	32.81 32.81	2983.17 2979.81	2952.48 2957.45	22363.46 352.71	MAS = 10.00 (m) MAS = 10.00 (m)	70.00 1830.00	70.00 1830.00					MINPT-O-EOU MinPts	
	2970.05 2959.31	32.81 32.81	2951.73 2940.29	2937.24 2926.51	182.11 173.64	MAS = 10.00 (m) MAS = 10.00 (m)	3510.00 4180.00	3506.79 4176.50					MinPt-O-SF MinPts	
	2959.35	32.81	2940.26	2926.54	172.91	MAS = 10.00 (m)	4200.00	4196.50					MINPT-O-EOU	
	3048.00 3044.72	62.05 62.08	3005.91 3002.58	2985.95 2982.64	76.30 76.29	OSF1.50 OSF1.50	9125.27 9200.00	9121.77 9196.19					MinPt-O-SF MinPt-O-SF	
	2995.26 2995.25	58.40 58.35	2955.50 2955.53	2936.86 2936.90	80.26 80.33	OSF1.50 OSF1.50	9750.00 9760.00	9583.31 9585.83					MinPts MinPt-CtCt	
	10518.06	87.45	10459.10	10430.61	184.55	OSF1.50	19753.92	9600.00					TD	

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Offset Trajectory		Separation MAS (ft)	EOU (ft)	Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference MD (ft)	Trajectory TVD (ft)	Alert	Risk Leve	el	Major	Alert	Status
Cimarex Dos Equis 13 Federa		-,,,,						.,,.			·			
#1H ST01 Xem+MWD 0ft to 15250ft (Def Survey)														Pass
	6243.46 6243.39	32.81 32.81	6241.48 6241.40	6210.65 6210.58	N/A 851812.01	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 20.00	0.00 20.00					Surface MinPt-O-SF	
	6243.38 6243.35	32.81 32.81	6241.40 6240.90	6210.57 6210.54	N/A	MAS = 10.00 (m)	26.00	26.00					WRP MinPts	
	6244.49	32.81	6240.53	6211.68	13061.36 3142.81	MAS = 10.00 (m) MAS = 10.00 (m)	160.00 500.00	160.00 500.00					MINPT-O-EOU	
	6244.85 6246.89	32.81 32.81	6240.19 6239.39	6212.04 6214.08	2331.46 1132.18	MAS = 10.00 (m) MAS = 10.00 (m)	660.00 1290.00	660.00 1290.00					MinPts MINPT-O-EOU	
	6254.57	32.81	6241.74	6221.77	576.11	MAS = 10.00 (m)	2500.00	2500.00					MINPT-O-EOU	
	6312.59 6320.64	32.81 32.81	6295.38 6303.95	6279.78 6287.83	414.23 429.64	MAS = 10.00 (m) MAS = 10.00 (m)	3503.18 3830.00	3500.00 3826.50					MinPt-O-SF MinPts	
	6320.14 6320.35	32.81 32.81	6301.56 6301.37	6287.33 6287.55	380.48 371.61	MAS = 10.00 (m) MAS = 10.00 (m)	4250.00 4340.00	4246.50 4336.50					MinPts MINPT-O-EOU	
	6395.37	57.97	6356.07	6337.41	171.29	OSF1.50	8900.00	8896.50					MINPT-O-EOU	
	6389.95 6316.74	59.57 58.41	6349.58 6277.14	6330.38 6258.33	166.37 167.86	OSF1.50 OSF1.50	9200.00 9416.94	9196.19 9395.63					MinPt-O-SF MinPt-O-SF	
	3132.70	122.88	3050.11	3009.81	38.85	OSF1.50	14960.00	9600.00					MinPt-CtCt	
	3133.06 3133.42	123.89 124.30	3049.80 3049.90	3009.17 3009.12	38.52 38.40	OSF1.50 OSF1.50	15010.00 15030.00	9600.00 9600.00					MINPT-O-EOU MinPt-O-ADP	
	3253.30 3412.59	137.24 189.28	3161.14 3285.75	3116.06 3223.32	36.06 27.31	OSF1.50 OSF1.50	15840.00 16910.00	9600.00 9600.00					MinPt-O-SF MinPt-CtCt	
	3417.48	204.31	3280.62	3213.17	25.32	OSF1.50	17310.00	9600.00					MINPT-O-EOU	
	3420.64 3407.51	208.58 267.46	3280.93 3228.55	3212.06 3140.05	24.82 19.24	OSF1.50 OSF1.50	17420.00 18620.00	9600.00 9600.00					MinPt-O-ADP MinPt-CtCt	
	3409.04	271.74	3227.22	3137.31	18.95	OSF1.50	18760.00	9600.00					MINPT-O-EOU	
	3413.19 3427.58	276.44 344.43	3197.30	3136.76 3083.16	18.64 15.00	OSF1.50 OSF1.50		9600.00 9600.00					MinPt-O-ADP MinPts	
	3435.51 3438.10	346.02 346.24	3204.17 3206.61	3089.49 3091.85	14.97 14.97	OSF1.50 OSF1.50	19720.00 19753.92	9600.00 9600.00					MinPt-O-SF TD	
	5450.70	570.24	5200.01	5551.05	17.51	001 1.00	.0100.02	5500.00					10	
Cimarex Dos Equis 13 Federa #1H Pilot Hole Extreme 0ft to	d													
11400ft (Def Survey)														Pass
	6243.46 6243.39	32.81 32.81	6241.48 6241.40	6210.65 6210.58	N/A 851812.01	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 20.00	0.00 20.00					Surface MinPt-O-SF	
	6243.38 6243.35	32.81 32.81	6241.40 6240.90	6210.57 6210.54	N/A 13061.36	MAS = 10.00 (m) MAS = 10.00 (m)	26.00 160.00	26.00 160.00					WRP MinPts	
	6244.49	32.81	6240.53	6211.68	3142.81	MAS = 10.00 (m)	500.00	500.00					MINPT-O-EOU	
	6244.85 6246.89	32.81 32.81	6240.19 6239.39	6212.04 6214.08	2331.46 1132.18	MAS = 10.00 (m) MAS = 10.00 (m)	660.00 1290.00	660.00 1290.00					MinPts MINPT-O-EOU	
	6254.57	32.81	6241.74	6221.77	576.11	MAS = 10.00 (m)	2500.00	2500.00					MINPT-O-EOU	
	6312.59 6320.64	32.81 32.81	6295.38 6303.95	6279.78 6287.83	414.23 429.64	MAS = 10.00 (m) MAS = 10.00 (m)	3503.18 3830.00	3500.00 3826.50					MinPt-O-SF MinPts	
	6320.14 6320.35	32.81 32.81	6301.56 6301.37	6287.33 6287.55	380.48 371.61	MAS = 10.00 (m) MAS = 10.00 (m)	4250.00 4340.00	4246.50 4336.50					MinPts MINPT-O-EOU	
	6395.37	57.97	6356.07	6337.41	171.29	OSF1.50	8900.00	8896.50					MINPT-O-EOU	
	6389.95 6316.74	59.57 58.41	6349.58 6277.14	6330.38 6258.33	166.37 167.86	OSF1.50 OSF1.50	9200.00 9416.94	9196.19 9395.63					MinPt-O-SF MinPt-O-SF	
	3132.70	122.88	3050.11	3009.81	38.85	OSF1.50	14960.00	9600.00					MinPt-CtCt	
	3133.06 3133.42	123.89 124.30	3049.80 3049.90	3009.17 3009.12	38.52 38.40	OSF1.50 OSF1.50	15010.00 15030.00	9600.00 9600.00					MINPT-O-EOU MinPt-O-ADP	
	3253.30 5724.65	137.24 134.87	3161.14 5634.08	3116.06 5589.79	36.06 64.60	OSF1.50 OSF1.50		9600.00 9600.00					MinPt-O-SF TD	
Continental Wimberly #8	2.24.00				200	20. 1.00							10	
(Offset) Plugged Oil Inc Only (5070ft (Def Survey)	Oft-													Pass
(_ 3. Ca. (Oy)	3136.18	32.81	3134.89	3103.37	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
	3135.98 3135.95	32.81 32.81	3134.67 3134.64	3103.18 3103.14	139013.26 151954.61	MAS = 10.00 (m) MAS = 10.00 (m)	20.00 26.00	20.00 26.00					MinPt-O-SF WRP	
	3135.92	32.81	3134.60	3103.11	100767.06	MAS = 10.00 (m)	40.00	40.00					MinPts MinPt-CtCt	
	3137.82 3136.57	57.49 113.78	3099.06 3060.29	3080.32 3022.79	83.71 41.81	OSF1.50 OSF1.50	1220.00 2310.00	1220.00 2310.00					MinPt-CtCt MinPt-CtCt	
	3138.61 3140.78	129.46 132.08	3051.87 3052.30	3009.15 3008.70	36.71 36.01	OSF1.50 OSF1.50	2610.00 2660.00	2609.97 2659.92					MINPT-O-EOU MinPt-O-ADP	
	3179.18	162.02	3070.74	3017.16	29.66	OSF1.50	3180.00	3178.05					MinPt-O-ADP	
	3214.50 3217.04	231.61 242.19	3059.67 3055.15	2982.90 2974.85	20.93 20.02	OSF1.50 OSF1.50	4580.00 4850.00	4576.50 4846.50					MinPt-CtCt MINPT-O-EOU	
	3220.20	245.99	3055.77 3052.79	2974.21 2966.58	19.73	OSF1.50	4960.00	4956.50					MinPt-O-ADP	
	3226.51 3226.55	259.93 259.93	3052.83	2966.61	18.70 18.70	OSF1.50 OSF1.50	5130.00	5116.50 5126.50					MinPts MinPt-O-SF	
	4514.49 4515.06	76.38 78.01	4463.14 4462.62	4438.11 4437.04	90.15 88.24	OSF1.50 OSF1.50		9600.00 9600.00					MinPt-CtCt MINPT-O-EOU	
	4516.13	79.30	4462.83	4436.83	86.81	OSF1.50	12710.00	9600.00					MinPt-O-ADP	
	5947.38 8469.23	213.33 259.13	5804.73 8296.05	5734.05 8210.10	42.06 49.26	OSF1.50 OSF1.50	16460.00 19753.92	9600.00 9600.00					MinPt-O-SF TD	
Continental Wimberly #2														
(Offset) Plugged Oil Inc Only (5038ft (Def Survey)	Oft-													Pass
,	3163.26	32.81	3161.97	3130.45	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
	3163.09 3163.06	32.81 32.81	3161.78 3161.76	3130.28 3130.25	167479.58 198465.16	MAS = 10.00 (m) MAS = 10.00 (m)	20.00 26.00	20.00 26.00					MinPt-O-SF WRP	
	3163.04 3157.08	32.81 71.32	3161.70 3109.10	3130.23 3085.76	55158.90 67.59	MAS = 10.00 (m) OSF1.50	40.00 1480.00	40.00 1480.00					MinPts MinPt-CtCt	
	3155.76	140.46	3061.69	3015.30	34.00	OSF1.50	2830.00	2829.38					MinPt-CtCt	
	3159.25 3162.61	221.73 231.80	3011.00 3007.64	2937.52 2930.81	21.49 20.57	OSF1.50 OSF1.50	4380.00 4640.00	4376.50 4636.50					MinPt-CtCt MINPT-O-EOU	
	3156.90	257.31	2984.93	2899.59	18.49	OSF1.50	5080.00	5076.50					MinPts	
	3156.92 5480.73	257.31 148.65	2984.95 5381.20	2899.61 5332.07	18.49 55.77	OSF1.50 OSF1.50		5086.50 9600.00					MinPt-O-SF MinPt-CtCt	
	5480.73 6678.39	148.66 208.93	5381.19 6538.67	5332.07 6469.45	55.77 48.23	OSF1.50 OSF1.50		9600.00 9600.00					MinPts MinPt-O-SF	
	6678.39 11254.66	208.93 267.44	6538.67 11075.93	10987.21	48.23 63.42	OSF1.50	13740.00 19753.92	9600.00 9600.00					MinPt-O-SF TD	
Continental Wimberly #3														
(Offset) Plugged Oil Inc Only (3570ft (Def Survey)	Oft-													Pass
	3590.88 3590.51	32.81 32.81	3589.59 3589.17	3558.07 3557.70	N/A 74507.41	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 26.00	0.00 26.00					Surface MinPt-O-SF	
	3590.51 3590.31	32.81	3589.17 3588.88	3557.70	26040.65	MAS = 10.00 (m) MAS = 10.00 (m)	70.00	70.00					MinPt-O-SF MinPts	
			-	_										

Offset Trajectory		Separation		Allow	Sep.	Controlling	Reference	Trajectory		Risk Level		Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	3588.02 3587.59	61.82 119.98	3546.37 3507.18	3526.19 3467.61	88.88 45.32	OSF1.50 OSF1.50	1340.00 2460.00	1340.00 2460.00				MinPt-CtCt MinPt-CtCt	
	3588.87	124.38	3505.51	3464.48	43.72	OSF1.50	2590.00	2589.99				MINPT-O-EOU	
	3590.55	126.41	3505.85	3464.14	43.03	OSF1.50	2650.00	2649.93				MinPt-O-ADP	
	3632.82	200.45	3498.76	3432.37	27.35	OSF1.50	3960.00	3956.50				MinPt-CtCt	
	3633.05	201.22	3498.47	3431.83	27.25	OSF1.50	4010.00	4006.50				MINPT-O-EOU	
	3633.43 3630.05	201.67 240.83	3498.55 3469.06	3431.76 3389.22	27.19 22.72	OSF1.50 OSF1.50	4040.00 4750.00	4036.50 4746.50				MinPt-O-ADP MinPt-CtCt	
	3630.90	243.54	3468.11	3387.36	22.12	OSF1.50	4860.00	4856.50				MINPT-O-EOU	
	3631.90	244.75	3468.31	3387.16	22.37	OSF1.50	4910.00	4906.50				MinPt-O-ADP	
	3638.67	262.83	3463.02	3375.84	20.86	OSF1.50	5140.00	5136.50				MinPts	
	3638.82	262.86	3463.15	3375.96	20.86	OSF1.50	5170.00	5166.50				MinPt-O-SF	
	5440.90 5440.95	158.64 158.75	5334.71 5334.69	5282.26 5282.20	51.85 51.82	OSF1.50 OSF1.50	11260.00 11280.00	9600.00 9600.00				MinPt-CtCt MINPT-O-EOU	
	5441.00	158.80	5334.70	5282.20	51.80	OSF1.50	11290.00	9600.00				MinPt-O-ADP	
	6476.04	218.62	6329.86	6257.42	44.69	OSF1.50	14770.00	9600.00				MinPt-O-SF	
	10088.99	272.33	9907.01	9816.66	55.83	OSF1.50	19753.92	9600.00				TD	
Jubilee Energy Gulf Federal #1													
(Offset) Plugged Oil Inc Only 0ff 5020ft (Def Survey)	t·												Pass
	3928.28	32.81	3926.99	3895.47	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3928.05	32.81	3926.74	3895.24	161793.63	MAS = 10.00 (m)	26.00	26.00				MinPt-O-SF	
	3928.00	32.81	3926.64	3895.19	54456.41	MAS = 10.00 (m)	50.00	50.00				MinPts	
	3927.27 3934.67	99.74 129.18	3860.34 3848.12	3827.52 3805.48	59.82 46.13	OSF1.50 OSF1.50	1980.00 2600.00	1980.00 2599.98				MinPt-CtCt MINPT-O-EOU	
	3934.67	129.18	3848.12 3848.90	3805.48	46.13 44.54	OSF1.50	2690.00	2599.98 2689.86				MinPt-O-EOU MinPt-O-ADP	
	3970.62	203.64	3834.43	3766.98	29.42	OSF1.50	3960.00	3956.50				MinPt-CtCt	
	3980.11	262.07	3804.97	3718.04	22.89	OSF1.50	5070.00	5066.50				MinPts	
	3980.23	262.09	3805.07	3718.14	22.88	OSF1.50	5100.00	5096.50				MinPt-O-SF	
	5302.57 5302.68	150.27 150.55	5201.96 5201.88	5152.30 5152.13	53.37 53.28	OSF1.50 OSF1.50	12260.00 12290.00	9600.00 9600.00				MinPt-CtCt MINPT-O-EOU	
	5302.85	150.55	5201.88	5152.13	53.26	OSF1.50	12310.00	9600.00				MinPt-O-ADP	
	6378.01	221.94	6229.62	6156.07	43.35	OSF1.50	15800.00	9600.00				MinPt-O-SF	
	9183.67	269.52	9003.56	8914.15	51.35	OSF1.50	19753.92	9600.00				TD	
Continental Wimberly #7													
(Offset) Plugged Oil Inc Only 0f	t-												D
5100ft (Def Survey)	AAA3 0F	22.04	4440 EC	4444.04	NI/A	MAS = 10.00 ()	0.00	0.00					Pass
	4443.85 4443.80	32.81 32.81	4442.56 4442.51	4411.04 4410.99	N/A 661194.62	MAS = 10.00 (m) MAS = 10.00 (m)	0.00 10.00	0.00 10.00				Surface MinPt-O-SF	
	4443.77	32.81	4442.48	4410.96	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	4443.77	32.81	4442.43	4410.96	86989.02	MAS = 10.00 (m)	30.00	30.00				MinPts	
	4443.75	39.85	4416.75	4403.90	172.80	OSF1.50	880.00	880.00				MinPt-CtCt	
	4443.34 4443.00	76.91 125.74	4391.64 4358.74	4366.43 4317.26	88.11 53.54	OSF1.50 OSF1.50	1590.00 2510.00	1590.00 2510.00				MinPt-CtCt MinPt-CtCt	
	4443.89	128.49	4357.80	4315.40	52.39	OSF1.50	2580.00	2579.99				MINPT-O-EOU	
	4445.25	130.12	4358.08	4315.13	51.74	OSF1.50	2620.00	2619.96				MinPt-O-ADP	
	4492.97	166.92	4381.26	4326.04	40.68	OSF1.50	3220.00	3217.89				MinPt-O-ADP	
	4527.99	237.04	4369.53	4290.95	28.80	OSF1.50	4670.00	4666.50				MinPt-CtCt	
	4532.50 4533.68	250.32 261.36	4365.19 4359.01	4282.18 4272.31	27.29 26.14	OSF1.50 OSF1.50	5030.00 5130.00	5026.50 5126.50				MINPT-O-EOU MinPts	
	4533.85	261.39	4359.17	4272.47	26.14	OSF1.50	5170.00	5166.50				MinPt-O-SF	
	4497.23	102.94	4428.17	4394.29	66.34	OSF1.50	13910.00	9600.00				MinPt-CtCt	
	4497.83	104.63	4427.64	4393.19	65.26	OSF1.50	13980.00	9600.00				MINPT-O-EOU	
	4498.92	105.93	4427.87	4392.99	64.47	OSF1.50	14030.00	9600.00				MinPt-O-ADP	
	5706.82 7376.59	219.63 257.29	5559.97 7204.64	5487.19 7119.31	39.20 43.21	OSF1.50 OSF1.50	17420.00 19753.92	9600.00 9600.00				MinPt-O-SF TD	
						2200						.5	
Stanolind Wimberly A Unit B #1 Inc Only (Def Survey)													Pass
, , , , , , , , , , , , , , , , , , , ,	6020.36	32.81	6018.39	5987.56	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6020.27	32.81	6018.28	5987.46	543209.54	MAS = 10.00 (m)	20.00	20.00				MinPt-O-SF	
	6020.25	32.81	6018.26		609233.52	MAS = 10.00 (m)	26.00	26.00				WRP	
	5984.61 5986.29	196.50 554.09	5852.95 5616.23	5788.11 5432.20	46.14 16.26	OSF1.50 OSF1.50	2580.00 5020.00	2579.99 5016.50				MinPt-CtCt MinPt-O-SE	
	5985.88	554.09 554.00	5615.88	5432.20	16.26	OSF1.50	5020.00	5076.50				MinPt-O-SF MinPts	
	5985.87	553.98	5615.88	5431.89	16.26	OSF1.50	5090.00	5086.50				MinPt-CtCt	
	6454.66	387.79	6195.47	6066.87	25.09	OSF1.50	10840.00	9600.00				MinPt-O-SF	
	4817.22	222.99	4667.90	4594.23	32.68	OSF1.50	15140.00	9600.00				MinPt-CtCt	
	4817.79 4818.81	224.48 225.69	4667.48 4667.69	4593.31 4593.12	32.47 32.30	OSF1.50 OSF1.50	15210.00 15260.00	9600.00 9600.00				MINPT-O-EOU MinPt-O-ADP	
	6137.98	418.12	5858.57	5719.86	22.12	OSF1.50	18940.00	9600.00				MinPt-O-SF	
	6673.03	448.65	6373.27	6224.38	22.40	OSF1.50	19753.92	9600.00				TD	
Westates Petroleum Wolley #1													
(Offset) Plugged Oil Blind 0ft- 5063ft (Def Survey)													Pass
22301 (DOI GUIVOY)	10183.88	32.81	10182.59	10151.07	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	10183.77	32.81	10182.47		784942.67	MAS = 10.00 (m)	26.00	26.00				WRP	
	10183.73	754.42	9680.36	9429.31	20.28	OSF1.50	2500.00	2500.00				MinPt-CtCt	
	10259.43 6263.33	1577.40 1108.93	9207.40 5523.62	8682.03	9.76 8.48	OSF1.50	5130.00 16070.00	5126.50 9600.00				MinPts MinPt-O-SF	
	6263.33 5437.44	1108.93 918.48	5523.62 4824.69	5154.40 4518.95	8.48	OSF1.50 OSF1.50	16070.00	9600.00				MinPt-O-SF MinPt-CtCt	
	5437.44	918.61	4824.64	4518.87	8.89	OSF1.50	19200.00	9600.00				MINPT-O-EOU	
	5437.59	918.76	4824.66	4518.84	8.89	OSF1.50	19220.00	9600.00				MinPt-O-ADP	
	5467.78	931.57	4846.31	4536.22	8.81	OSF1.50	19753.92	9600.00				MinPt-O-SF	

Schlumberger

Cimarex Dos Equis 12-13 Federal Com #52H Rev1 RM 17Feb20 Proposal **Geodetic Report**



(Non-Def Plan)

February 17, 2020 - 04:05 PM Report Date: Client: Field: Cimarex Energy NM Lea County (NAD 83)

Cimarex Dos Equis 12-13 Federal Com #52H / New Slot Dos Equis 12-13 Federal Com #52H Structure / Slot:

Well: Borehole: Dos Equis 12-13 Federal Com #52H UWI / API#: Unknown / Unknown

Survey Name: Cimarex Dos Equis 12-13 Federal Com #52H Rev1 RM 17Feb20

Survey Date: Tort / AHD / DDI / ERD Ratio: December 27, 2019 100.176 ° / 10443.274 ft / 6.333 / 1.088

NAD83 New Mexico State Plane, Eastern Zone, US Feet N 32° 14' 20.10646", W 103° 37' 55.30975"

Coordinate Reference System: Location Lat / Long: Location Grid N/E Y/X: N 451360.000 ftUS, E 758169.750 ftUS CRS Grid Convergence Angle: 0.3741 °

Grid Scale Factor: 0.99996294 Version / Patch: 2.10.787.0

Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin: TVD Reference Datum: 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 179.670 ° (Grid North) 0.000 ft, 0.000 ft RKB 3634.100 ft above MSL

3608.100 ft above MSL 6.617°

998.4380mgn (9.80665 Based) GARM

47842.502 nT 59.880 ° February 17, 2020 HDGM 2019 Grid North 0.3741° 6.2429 ° Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL [195' FNL, 1480' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	451360.00		N 32 14 20.11 V	
1400 T WLJ	100.00	0.00	12.00	100.00	0.00	0.00	0.00	0.00	451360.00	758169.75	N 32 14 20.11 V	V 103 37 55.31
	200.00	0.00	12.00	200.00	0.00	0.00	0.00	0.00	451360.00			V 103 37 55.31
	300.00	0.00	12.00	300.00	0.00	0.00	0.00	0.00	451360.00	758169.75	N 32 14 20.11 V	V 103 37 55.31
	400.00	0.00	12.00	400.00	0.00	0.00	0.00	0.00	451360.00	758169.75	N 32 14 20.11 V	N 103 37 55.31
	500.00	0.00	12.00	500.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
	600.00	0.00	12.00	600.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
	700.00	0.00	12.00	700.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
	800.00	0.00	12.00	800.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
	900.00	0.00	12.00	900.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
	1000.00	0.00	12.00	1000.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
Rustler	1100.00 1185.00	0.00 0.00	12.00 12.00	1100.00 1185.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	451360.00 451360.00		N 32 14 20.11 V N 32 14 20.11 V	N 103 37 55.31
Rustier	1200.00	0.00	12.00	1200.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V N 32 14 20.11 V	
	1300.00	0.00	12.00	1300.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
	1400.00	0.00	12.00	1400.00	0.00	0.00	0.00	0.00	451360.00	758169.75		
Salado (Top												
Salt)	1500.00	0.00	12.00	1500.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	N 103 37 55.31
	1600.00	0.00	12.00	1600.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	N 103 37 55.31
	1700.00	0.00	12.00	1700.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
	1800.00	0.00	12.00	1800.00	0.00	0.00	0.00	0.00	451360.00			N 103 37 55.31
	1900.00	0.00	12.00	1900.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
	2000.00	0.00	12.00	2000.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
	2100.00	0.00	12.00	2100.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
	2200.00	0.00	12.00	2200.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
	2300.00	0.00	12.00	2300.00	0.00	0.00	0.00	0.00	451360.00	758169.75		
Nudge 2°/100'	2400.00	0.00	12.00	2400.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
DLS	2500.00	0.00	12.00	2500.00	0.00	0.00	0.00	0.00	451360.00		N 32 14 20.11 V	
	2600.00	2.00 4.00	12.00	2599.98	-1.70 -6.82	1.71 6.83	0.36	2.00 2.00	451361.71 451366.83		N 32 14 20.12 V	N 103 37 55.31 N 103 37 55.29
Hald Mindes	2700.00 2750.00	5.00	12.00 12.00	2699.84 2749.68	-6.82 -10.65	10.66	1.45 2.27	2.00	451366.83 451370.66			N 103 37 55.29 N 103 37 55.28
Hold Nudge		5.00				14.93		0.00				
	2800.00		12.00	2799.49	-14.91		3.17		451374.93			
	2900.00 3000.00	5.00 5.00	12.00 12.00	2899.11 2998.73	-23.42 -31.94	23.45 31.98	4.98 6.80	0.00	451383.45 451391.97			N 103 37 55.25 N 103 37 55.23
	3100.00	5.00	12.00	3098.35	-31.94 -40.45	40.50	8.61	0.00	451391.97			N 103 37 55.23 N 103 37 55.21
	3200.00	5.00	12.00	3197.97	-48.97	49.03	10.42	0.00	451400.50			V 103 37 55.21
	3300.00	5.00	12.00	3297.59	-57.48	57.55	12.23	0.00	451417.55			V 103 37 55.16
	3400.00	5.00	12.00	3397.21	-65.99	66.08	14.04	0.00	451417.55		N 32 14 20.06 V N 32 14 20.76 V	
	3500.00	5.00	12.00	3496.83	-74.51	74.60	15.86	0.00	451434.60		N 32 14 20.84 V	
Drop to Vertical	3503.18	5.00	12.00	3500.00	-74.78	74.87	15.91	0.00	451434.87		N 32 14 20.85 V	
2°/100' DLS	3600.00	3.06	12.00	3596.57	-81.43	81.53	17.33	2.00	451441.53	758187.08		
	3700.00	1.06	12.00	3696.50	-84.95	85.05	18.08	2.00	451445.05			V 103 37 55.09
Hold Vertical	3753.18	0.00	12.00	3749.68	-85.43	85.54	18.18	2.00	451445.53			V 103 37 55.09
	3800.00	0.00	12.00	3796.50	-85.43	85.54	18.18	0.00	451445.53			V 103 37 55.09
	3900.00	0.00	12.00	3896.50	-85.43	85.54	18.18	0.00	451445.53			N 103 37 55.09
	4000.00	0.00	12.00	3996.50	-85.43	85.54	18.18	0.00	451445.53	758187.93	N 32 14 20.95 V	V 103 37 55.09
	4100.00	0.00	12.00	4096.50	-85.43	85.54	18.18	0.00	451445.53	758187.93	N 32 14 20.95 V	V 103 37 55.09
	4200.00	0.00	12.00	4196.50	-85.43	85.54	18.18	0.00	451445.53	758187.93		V 103 37 55.09
	4300.00	0.00	12.00	4296.50	-85.43	85.54	18.18	0.00	451445.53	758187.93	N 32 14 20.95 V	N 103 37 55.09
	4400.00	0.00	12.00	4396.50	-85.43	85.54	18.18	0.00	451445.53	758187.93	N 32 14 20.95 V	N 103 37 55.09
	4500.00	0.00	12.00	4496.50	-85.43	85.54	18.18	0.00	451445.53			N 103 37 55.09
	4600.00	0.00	12.00	4596.50	-85.43	85.54	18.18	0.00	451445.53			V 103 37 55.09
Base fo Salt	4653.50	0.00	12.00	4650.00	-85.43	85.54	18.18	0.00	451445.53		N 32 14 20.95 V	
	4700.00	0.00	12.00	4696.50	-85.43	85.54	18.18	0.00	451445.53			V 103 37 55.09
	4800.00	0.00	12.00	4796.50	-85.43	85.54	18.18	0.00	451445.53			N 103 37 55.09
	4900.00	0.00	12.00	4896.50	-85.43	85.54	18.18	0.00	451445.53			V 103 37 55.09
Bell Canyon	4950.50	0.00	12.00	4947.00	-85.43	85.54	18.18	0.00	451445.53		N 32 14 20.95 V	
	5000.00	0.00	12.00	4996.50	-85.43	85.54	18.18	0.00	451445.53			V 103 37 55.09
	5100.00	0.00	12.00	5096.50	-85.43	85.54	18.18	0.00	451445.53			V 103 37 55.09
	5200.00	0.00	12.00	5196.50	-85.43	85.54	18.18	0.00	451445.53			V 103 37 55.09
	5300.00	0.00	12.00	5296.50	-85.43	85.54	18.18	0.00	451445.53			V 103 37 55.09
	5400.00	0.00	12.00	5396.50	-85.43	85.54	18.18	0.00	451445.53			V 103 37 55.09
	5500.00	0.00	12.00	5496.50	-85.43	85.54	18.18	0.00	451445.53			N 103 37 55.09
	5600.00	0.00	12.00 12.00	5596.50 5696.50	-85.43 -85.43	85.54 85.54	18.18	0.00	451445.53 451445.53			N 103 37 55.09 N 103 37 55.09
	5700.00			5696.50			18.18		451445.53 451445.53			
Charny Canyon	5800.00 5877.50	0.00 0.00	12.00	5796.50 5874.00	-85.43 -85.43	85.54 85.54	18.18 <i>18.18</i>	0.00 0.00	451445.53 451445.53			N 103 37 55.09
Cherry Canyon	<i>5877.50</i> 5900.00	0.00	12.00 12.00	5874.00 5896.50	- <i>85.4</i> 3 -85.43	85.54 85.54	18.18 18.18	0.00	451445.53 451445.53		N 32 14 20.95 V N 32 14 20.95 V	
		0.00										
		0.00	12.00	5996.50	-85.43 -85.43	85.54 85.54	18.18 18.18	0.00 0.00	451445.53 451445.53			N 103 37 55.09 N 103 37 55.09
	6000.00		12.00			00.04	10.10	0.00	401440.03			1 100 01 00.09
	6100.00	0.00	12.00	6096.50					451445 52			
	6100.00 6200.00	0.00 0.00	12.00	6196.50	-85.43	85.54	18.18	0.00	451445.53	758187.93	N 32 14 20.95 V	N 103 37 55.09
	6100.00 6200.00 6300.00	0.00 0.00 0.00	12.00 12.00	6196.50 6296.50	-85.43 -85.43	85.54 85.54	18.18 18.18	0.00 0.00	451445.53 451445.53	758187.93 758187.93	N 32 14 20.95 V N 32 14 20.95 V	N 103 37 55.09 N 103 37 55.09
	6100.00 6200.00 6300.00 6400.00	0.00 0.00 0.00 0.00	12.00 12.00 12.00	6196.50 6296.50 6396.50	-85.43 -85.43 -85.43	85.54 85.54 85.54	18.18 18.18 18.18	0.00 0.00 0.00	451445.53 451445.53 451445.53	758187.93 758187.93 758187.93	N 32 14 20.95 V N 32 14 20.95 V N 32 14 20.95 V	N 103 37 55.09 N 103 37 55.09 N 103 37 55.09
	6100.00 6200.00 6300.00	0.00 0.00 0.00	12.00 12.00	6196.50 6296.50	-85.43 -85.43	85.54 85.54	18.18 18.18	0.00 0.00	451445.53 451445.53	758187.93 758187.93 758187.93	N 32 14 20.95 V N 32 14 20.95 V N 32 14 20.95 V N 32 14 20.95 V	N 103 37 55.09 N 103 37 55.09

Drilling Office 2.10.787.0

Control Section Sect	C	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting Latitude Longitude
Sendy Carlon 100	Comments										(ftUS) (N/S ° ' ") (E/W ° ' ")
Fig. Congo. 7.00.00											758187.93 N 32 14 20.95 W 103 37 55.09
The control of the co											
TO 100 100 100 100 100 100 100 100 100 10											
14000		7300.00	0.00	12.00	7296.50	-85.43	85.54	18.18	0.00	451445.53	758187.93 N 32 14 20.95 W 103 37 55.09
TOTAL DE LOCATION TO TOTAL TOT	Brusny Canyon										
1960 100		7500.00	0.00	12.00	7496.50	-85.43	85.54	18.18	0.00	451445.53	758187.93 N 32 14 20.95 W 103 37 55.09
1900											
900.00 0.00 1.00 1.00 1.00 1.00 1.00 1.0		7800.00	0.00	12.00	7796.50	-85.43	85.54	18.18	0.00	451445.53	758187.93 N 32 14 20.95 W 103 37 55.09
Property											
SECULD CO. 0.00 12.00 SEGS.00 50.04 18.10 0.00 6946625 7691673 N 127 400 100 100 100 100 100 100 100 100 100											
## 1,000											
Section Control Cont											
\$\$\frac{1}{2}\$\$\fr		8500.00	0.00	12.00	8496.50	-85.43	85.54	18.18	0.00	451445.53	758187.93 N 32 14 20.95 W 103 37 55.09
Membro M											
BERGLOO 300 1200 1200 1806.00 151.00		8800.00	0.00	12.00	8796.50	-85.43	85.54	18.18	0.00	451445.53	758187.93 N 32 14 20.95 W 103 37 55.09
Miles Mile	Bone Spring										
KOP-Build: 9105-77 900-000-000-000-000-000-000-000-000-00						-85.43				451445.53	
19-190 CLS	KOB Build	9100.00	0.00	12.00	9096.50	-85.43	85.54	18.18	0.00	451445.53	758187.93 N 32 14 20.95 W 103 37 55.09
Alexon 9809 77 79 /4 74 /20 9809 90 97 /4 74 /20 9809 90 97 /4 77 /20 9809 90 97 /4 77 /20 9809 90 98 /4		9125.27	0.00	12.00	9121.77	-85.43	85.54	18.18	0.00	451445.53	758187.93 N 32 14 20.95 W 103 37 55.09
Salbado 2017 174.00 2022 174.00 2022 20.00 2014 174.00 2022 20.00 2014 174.00 2022 20.00 2014											758188.51 N 32 14 20.89 W 103 37 55.09
Bailet A Time 940,000 32.97 174.20 3931.90 393	Avaion										
12/10/10/16/16 14/10/16/16/16/16/16/16/16/16/16/16/16/16/16/											758195.56 N 32 14 20.19 W 103 37 55.01
980000 44.91 179.50 9496.22 9.300 - 33.47 91.23 12.0		9416.94	35.00	174.30	9395.63	0.54	-0.39	26.76	12.00	451359.61	758196.50 N 32 14 20.10 W 103 37 55.00
Larrelling Power 970000 06.84 179.22 9607.73 219.77 219.56 39.20 170.0 45150.47 7780000 N 32.4 17.50 W 103.754.1 190.00 179.67 9000.0 179.67 9	.2 /100 DL0										
Useding Posel 980.00 89.01 170.00 90.00 170.07 900.00 315.05 415.00 170.											
Lacking Paint 9578-74 90.00 778-67 900.00 382-49 -392-280 42-40 12-00 45094-75 755012-15 N 32 14 16.22 W10375-14 10-00 W105000 778-67 900.00 478-67 900.00											
1900000 90.00 1716F7 890.00 15176 41552 4311 0.00 48084450 7580128 N 32 14 10.00 W 103 754 1 10 10 10 10 10 10 10 10 10 10 10 10 1	Landing Point	9876.74	90.00	179.67	9600.00	392.49	-392.26	42.40	12.00	450967.76	758212.15 N 32 14 16.22 W 103 37 54.85
1000000 90.00 17627 800000 91.75 77.75 91.55 41.55 9											
1000000 00,00		10100.00	90.00	179.67	9600.00	615.76	-615.52	43.69	0.00	450744.51	758213.44 N 32 14 14.01 W 103 37 54.85
1945000 90,00 17367 98000 91,76 -91,51 45,42 0.00 45044453 782515 6 N 22 14 10.04 W 1037 54.4 10.04 W											
1960,000 90,00			90.00			915.76	-915.51	45.42	0.00	450444.53	758215.16 N 32 14 11.04 W 103 37 54.85
1070000											
1990.00 90.00 779.67 900.00 1167.76 -1415.50 43.20 0.00 44894.45 782216.82 N. 21.4 6.10 W 105.37 54.1											758216.89 N 32 14 8.08 W 103 37 54.85
1100000 90.00 178.67 9600.00 158.76 158.50 48.87 0.00 44884.46 7522126.9 N 32 1.6 5.1 W 103 37.54 178.00 178.07 186.00 168.76 188.50											
11100.00 90.00 179.67 990.00 179.67 1157.60											
1190.00 9.00 179.67 960.00 1915.76 -1915.49 51.77 0.00 44944.65 75822.35 N 21 4 1.54 W 103 37 54.1 119.00 191.00 1											
11400.00 90.00 179.67 9900.00 191.676 1916.46 51.75 0.00 44944.68 78527.02 N 32 14 1.15 W 103 37 54 1170.00 90.00 179.67 9900.00 2115.76 2011.49 51.75 0.00 4494.49 78527.02 N 32 14 1.15 W 103 37 54 1170.00 90.00 179.67 9900.00 2215.76 2215.49 52.20 0.00 4491.42 78522.30 N 32 13 15.80 W 103 37 54 1170.00 90.00 179.67 9900.00 2415.76 2215.49 54.05 0.00 4494.40 78522.30 N 32 13 15.80 W 103 37 54 1170.00 90.00 179.67 9900.00 2415.76 2215.49 54.05 0.00 4494.40 78522.30 N 32 13 56.20 W 103 37 54 1170.00 90.00 179.67 9900.00 2415.76 2215.49 95.05 95											
11600.00 90.00 179.67 9600.00 2115.76 2216.49 52.23 0.00 44894.459 75822.217 N 213.59.17 W 103.37 54.1		11400.00	90.00	179.67	9600.00	1915.76	-1915.49	51.17	0.00	449444.58	758220.92 N 32 14 1.15 W 103 37 54.86
1900.00 90.00 179.67 9600.00 2215.76 -2215.49 52.20 0.00 449144.60 758222.65 N 32 13 83.18 V103 37 54.1											
Lease MANNMO019177 - MANNMO020289		11700.00	90.00			2215.76	-2215.49	52.90	0.00	449144.60	
Lease NAMMO001917 - 1190.0 40											
MMM0001917- MMM0002991- MMM0002989	Lease	11300.00	30.00	175.07	3000.00	2410.70	2410.40	04.00	0.00	440544.01	730223.30 14 32 13 30.20 W 103 37 34.30
Crossing 12000	NMNM0001917 -	11930.40	90.00	179.67	9600.00	2446.16	-2445.89	54.23	0.00	448914.21	758223.98 N 32 13 55.90 W 103 37 54.86
12100.00 90.00 179.67 9600.00 2715.76 -2615.48 55.21 0.00 44874.62 758224.95 N 32 13 54.22 W 103 37 54.1											
12200.00 90.00 179.67 9600.00 2715.76 2215.48 55.78 0.00 448644.63 758225.53 N 32 13 52.2 W 103 37 54.1		12000.00	90.00	179.67	9600.00	2515.76	-2515.48	54.63	0.00	448844.61	758224.38 N 32 13 55.21 W 103 37 54.86
12300.00 90.00 179.67 9600.00 2915.76 -2915.48 56.36 0.00 446544.63 758226.68 N 32 13 52.24 W 103 37 54.1											
12400.00 90.00 179.67 9600.00 2915.76 2915.48 56.33 0.00 448444.64 758226.68 N 32 13 51.25 W 103 37 54.4 12600.00 90.00 179.67 9600.00 3015.76 3015.45 57.51 0.00 44824.65 758227.68 N 32 13 50.26 W 103 37 54.4 12600.00 90.00 179.67 9600.00 3215.76 3115.47 58.09 0.00 44824.65 758227.68 N 32 13 40.28 W 103 37 54.4 12800.00 90.00 179.67 9600.00 3215.76 3215.47 58.66 0.00 44804.65 758227.68 N 32 13 40.28 W 103 37 54.4 12800.00 90.00 179.67 9600.00 3315.76 3315.47 59.24 0.00 44804.65 758228.41 N 32 13 40.28 W 103 37 54.4 12800.00 90.00 179.67 9600.00 3415.76 3415.47 59.24 0.00 44794.66 758228.56 N 32 13 47.38 W 103 37 54.4 13000.00 90.00 179.67 9600.00 3415.76 3415.47 69.24 0.00 44794.66 758228.56 N 32 13 47.38 W 103 37 54.4 13000.00 90.00 179.67 9600.00 3715.76 3415.47 69.24 0.00 44794.66 758220.56 N 32 13 43.5 W 103 37 54.4 13000.00 90.00 179.67 9600.00 3715.76 3415.47 69.24 0.00 44794.66 758220.56 N 32 13 43.5 W 103 37 54.4 13000.00 90.00 179.67 9600.00 3715.76 3415.47 69.28 0.00 44794.66 758220.56 N 32 13 43.5 W 103 37 54.4 13000.00 90.00 179.67 9600.00 3815.76 3415.46 62.12 0.00 44794.68 758231.28 N 32 13 42.3 W 103 37 54.4 13000.00 90.00 179.67 9600.00 3815.76 3415.46 62.12 0.00 44794.68 758231.80 N 32 13 42.3 W 103 37 54.4 13000.00 90.00 179.67 9600.00 4115.76 4015.46 63.27 0.00 44794.47 758233.50 N 32 13 40.3 W 103 37 54.4 13000.00 90.00 179.67 9600.00 4115.76 4015.46 63.27 0.00 44794.47 758233.50 N 32 13 40.3 W 103 37 54.4 13000.00 90.00 179.67 9600.00 4415.76 4015.46 63.27 0.00 44794.47 75823.35 N 32 13 40.3 W 103 37 54.4 13000.00 90.00 179.67 9600.00 4415.76 4015.46 63.27 0.00 44794.47 75823.35 N 32 13 30.40 W 103 37 54.4 14000.00 90.00 179.67 9600.00 4415.76 4015.46 63.27 0.00 44694.72 75823.35 N 32 13 30.40 W 103 37 54.4 14000.00 90.00 179.67 9600.00 4415.76 4015.46 63.27 0.00 44694.74 77 75823.35 N 32 13 30.40 W 103 37 54.4 14000.00 90.00 179.67 9600.00 4415.76 4015.46 63.27 0.00 44694.75 75823.35 N 32 13 30.40 W 103 37 54.4 14000.00 90.00 179.67 9600.00 4415.76 4015.46 63.27 0.00 44694.77 75823.35 N 32											758226.11 N 32 13 53.23 W 103 37 54.87
12600.00 90.00 179.67 9600.00 3115.76 32115.47 58.66 0.00 448244.65 758227.83 N 32 13 42.28 W 103 37 544.											758226.68 N 32 13 51.25 W 103 37 54.87
12700.00 90.00 179.67 9600.00 3215.76 3215.47 58.66 0.00 448144.65 758228.41 N 32 13 48.29 W 103 37 54.4 1290.00 90.00 179.67 9600.00 315.76 3315.47 59.24 0.00 44804.66 758228.98 N 32 13 47.00 W 103 37 54.4 1290.00 90.00 179.67 9600.00 3415.76 3415.47 69.39 0.00 447944.66 758229.61 N 32 13 46.23 W 103 37 54.4 13100.00 90.00 179.67 9600.00 3415.76 3515.47 60.39 0.00 447944.67 758229.61 N 32 13 46.23 W 103 37 54.4 13100.00 90.00 179.67 9600.00 3615.76 3515.47 60.39 0.00 447944.67 758230.14 N 32 13 46.32 W 103 37 54.4 13100.00 90.00 179.67 9600.00 3715.6 3515.47 60.39 0.00 447944.68 758231.29 N 32 13 43.33 W 103 37 54.4 13100.00 90.00 179.67 9600.00 3815.76 3515.46 61.54 0.00 447944.68 758231.29 N 32 13 43.34 W 103 37 54.4 13100.00 90.00 179.67 9600.00 3815.76 3515.46 62.12 0.00 447944.69 758231.29 N 32 13 43.43 W 103 37 54.4 13500.00 90.00 179.67 9600.00 3815.76 3515.46 62.12 0.00 447944.69 758233.29 N 32 13 43.03 W 103 37 54.4 13500.00 90.00 179.67 9600.00 4115.78 4015.46 62.12 0.00 447944.70 758233.90 N 32 13 39.38 W 103 37 54.4 13500.00 90.00 179.67 9600.00 4115.78 4015.46 63.27 0.00 447944.70 758233.90 N 32 13 39.38 W 103 37 54.4 13500.00 90.00 179.67 9600.00 4115.78 4015.46 63.27 0.00 447944.71 758233.90 N 32 13 39.38 W 103 37 54.4 1400.00 90.00 179.67 9600.00 4115.76 4315.46 65.70 0.00 44794.71 758233.90 N 32 13 39.38 W 103 37 54.4 1400.00 90.00 179.67 9600.00 415.76 4315.46 65.70 0.00 44794.71 758233.90 N 32 13 33.44 W 103 37 54.4 1400.00 90.00 179.67 9600.00 415.76 4315.46 65.70 0.00 44694.73 758235.90 N 32 13 33.44 W 103 37 54.4 1400.00 90.00 179.67 9600.00 415.76 4315.46 66.15 0.00 44694.73 758235.90 N 32 13 33.44 W 103 37 54.4 1400.00 90.00 179.67 9600.00 415.76 4315.46 66.15 0.00 44694.74 758235.90 N 32 13 33.44 W 103 37 54.4 1400.00 90.00 179.67 9600.00 415.76 4315.46 66.70 0.00 44694.73 758235.90 N 32 13 33.44 W 103 37 54.4 1400.00 90.00 179.67 9600.00 515.76 5015.44 69.03 0.00 44694.77 758235.90 N 32 13 30.47 W 103 37 54.4 1400.00 90.00 179.67 9600.00 515.76 5015.44 69.03 0.00 44694.77 758235.90 N											
1200.00		12700.00	90.00	179.67	9600.00	3215.76	-3215.47	58.66	0.00	448144.65	758228.41 N 32 13 48.29 W 103 37 54.87
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Lease NIMMM002889 - NIMMM002889 - 14579.10 90.00 179.67 9600.00 5094.86 -5094.54 69.48 0.00 446265.66 758239.23 N 32 13 29.69 W 103 37 54.8 14600.00 90.00 179.67 9600.00 5215.76 -5215.44 70.18 0.00 446144.76 758239.35 N 32 13 29.49 W 103 37 54.8 14800.00 90.00 179.67 9600.00 5215.76 -5215.44 70.18 0.00 446144.76 758239.39 N 32 13 28.50 W 103 37 54.8 14800.00 90.00 179.67 9600.00 5315.76 -5315.44 70.18 0.00 446144.76 758239.39 N 32 13 28.50 W 103 37 54.8 14900.00 90.00 179.67 9600.00 5415.76 -5415.44 71.33 0.00 445944.78 758241.08 N 32 13 25.53 W 103 37 54.8 14900.00 90.00 179.67 9600.00 5515.76 -5515.43 71.91 0.00 445944.78 758241.08 N 32 13 25.53 W 103 37 54.8 15000.00 90.00 179.67 9600.00 5515.76 -5515.43 71.91 0.00 445944.78 75824.25 N 32 13 25.53 W 103 37 54.8 15000.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445944.79 758242.28 N 32 13 22.55 W 103 37 54.8 15000.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445944.79 758242.28 N 32 13 22.55 W 103 37 54.8 15000.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445944.79 758242.28 N 32 13 22.55 W 103 37 54.8 15000.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445944.80 758243.38 N 32 13 22.55 W 103 37 54.8 15000.00 90.00 179.67 9600.00 5715.76 -5915.43 74.21 0.00 445944.80 758243.38 N 32 13 22.55 W 103 37 54.8 15000.00 90.00 179.67 9600.00 5915.76 -5915.43 74.21 0.00 445944.80 758243.38 N 32 13 22.55 W 103 37 54.8 15000.00 90.00 179.67 9600.00 5915.76 -5915.43 74.21 0.00 445944.80 758243.38 N 32 13 22.55 W 103 37 54.8 15000.00 90.00 179.67 9600.00 5915.76 -5915.43 74.21 0.00 445944.80 758243.58 N 32 13 20.58 W 103 37 54.8 15000.00 90.00 179.67 9600.00 5915.76 -5915.43 74.21 0.00 445944.81 758245.58 N 32 13 20.58 W 103 37 54.8 15000.00 90.00 179.67 9600.00 5915.76 -5915.43 74.21 0.00 445944.81 758245.58 N 32 13 20.58 W 103 37 54.8 15000.00 90.00 179.67 9600.00 5915.76 -5915.43 74.79 0.00 445944.81 758245.58 N 32 13 20.58 W 103 37 54.8 15000.00 90.00 179.67 9600.00 59		14400.00	90.00	179.67	9600.00	4915.76	-4915.44	68.45	0.00	446444.75	758238.20 N 32 13 31.46 W 103 37 54.89
NMMM0002889 - NMMM053348		14500.00	90.00	179.67	9600.00	5015.76	-5015.44	69.03	0.00	446344.75	/58238.77 N 32 13 30.47 W 103 37 54.89
14600.00 90.00 179.67 9600.00 5115.76 -5115.44 69.60 0.00 446244.76 758239.35 N 32 13 29.49 W 103 37 54.1 14700.00 90.00 179.67 9600.00 5215.76 -5215.44 70.18 0.00 446144.76 758239.39 N 32 13 22.49 W 103 37 54.1 14800.00 90.00 179.67 9600.00 5215.76 -5315.44 70.75 0.00 446044.77 758240.50 N 32 13 22.51 W 103 37 54.1 14900.00 90.00 179.67 9600.00 5415.76 -5415.44 71.33 0.00 445944.78 758241.08 N 32 13 25.53 W 103 37 54.1 15100.00 90.00 179.67 9600.00 5515.76 -5515.43 71.91 0.00 445944.78 758241.05 N 32 13 25.53 W 103 37 54.1 15100.00 90.00 179.67 9600.00 5515.76 -5515.43 71.91 0.00 445944.78 758241.05 N 32 13 25.53 W 103 37 54.1 15100.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445744.79 758242.21 N 32 13 22.55 W 103 37 54.1 15200.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445744.79 758242.81 N 32 13 22.55 W 103 37 54.1 15200.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445644.79 758242.81 N 32 13 22.55 W 103 37 54.1 15200.00 90.00 179.67 9600.00 5815.76 -5815.43 73.06 0.00 445644.80 758242.81 N 32 13 22.55 W 103 37 54.1 15200.00 90.00 179.67 9600.00 5815.76 -5815.43 74.21 0.00 445644.80 758243.80 N 32 13 22.55 W 103 37 54.1 15200.00 90.00 179.67 9600.00 6015.76 -6015.43 74.21 0.00 44544.80 758243.81 N 32 13 21.55 W 103 37 54.1 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.51 N 32 13 12.55 W 103 37 54.1 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.51 N 32 13 12.58 W 103 37 54.1 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.51 N 32 13 12.58 W 103 37 54.1 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.51 N 32 13 12.58 W 103 37 54.1 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.51 N 32 13 12.58 W 103 37 54.1 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.51 N 32 13 12.58 W 103 37 54.1 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.51 N 32 13 12.58 W 103 37 54.1 15600.00 90.00 179.67 9600.00 6015.76 -6	NMNM0002889 - NMNM0553548	14579.10	90.00	179.67	9600.00	5094.86	-5094.54	69.48	0.00	446265.66	758239.23 N 32 13 29.69 W 103 37 54.89
14700.00 90.00 179.67 9600.00 5215.76 -5215.44 70.18 0.00 446144.76 758224.93 N 32 13 28.50 W 103 37 54.4 14800.00 90.00 179.67 9600.00 5315.76 -5315.44 70.75 0.00 446044.77 758240.50 N 32 13 27.51 W 103 37 54.4 14900.00 90.00 179.67 9600.00 5415.76 -5415.44 71.33 0.00 445944.78 758241.08 N 32 13 25.53 W 103 37 54.4 15100.00 90.00 179.67 9600.00 5515.76 -5515.43 71.91 0.00 445844.78 758241.65 N 32 13 25.53 W 103 37 54.4 15100.00 90.00 179.67 9600.00 5515.76 -5515.43 71.91 0.00 445844.78 758241.65 N 32 13 25.53 W 103 37 54.4 15200.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445744.79 758242.81 N 32 13 23.55 W 103 37 54.4 15200.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445744.79 758242.81 N 32 13 22.56 W 103 37 54.4 15200.00 90.00 179.67 9600.00 5815.76 -5815.43 73.63 0.00 445544.80 758243.80 N 32 13 22.56 W 103 37 54.4 15400.00 90.00 179.67 9600.00 5815.76 -5915.43 73.63 0.00 445544.80 758243.80 N 32 13 22.56 W 103 37 54.4 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758243.50 N 32 13 20.58 W 103 37 54.4 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.51 N 32 13 19.59 W 103 37 54.4 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.51 N 32 13 19.59 W 103 37 54.4 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.51 N 32 13 19.59 W 103 37 54.4 15600.00 90.00 179.67 9600.00 6015.76 -6015.42 75.94 0.00 44544.81 758245.51 N 32 13 19.59 W 103 37 54.4 15700.00 90.00 179.67 9600.00 6015.76 -6215.42 75.94 0.00 44544.81 758245.51 N 32 13 18.60 W 103 37 54.4 15700.00 90.00 179.67 9600.00 6015.76 -6215.42 75.94 0.00 44544.81 758245.51 N 32 13 18.60 W 103 37 54.4 15700.00 90.00 179.67 9600.00 6015.76 -6215.42 75.94 0.00 44544.81 758245.51 N 32 13 18.60 W 103 37 54.4 15700.00 90.00 179.67 9600.00 6015.76 -6215.42 75.94 0.00 44544.82 758245.58 N 32 13 18.60 W 103 37 54.4 15700.00 90.00 179.67 9600.00 6015.76 -6215.42 75.94 0.00 44544.82 758245.58 N 32 13 18.60 W 103 37 54.4 15700.00 90.00 179.67 9600.00 6015.76 -621	Crossing	4.4000.55	00.00	470	0000.00	F115 ===	£115 /:	00.00		440044 ===	750000 05 N. 00 10 00 10 W. 100 07 07
14800.00 90.00 179.67 9600.00 5315.76 -5315.44 70.75 0.00 446644.77 758240.50 N 32 13 22.51 W 103 37 54.1 15000.00 90.00 179.67 9600.00 5415.76 -5415.44 71.33 0.00 45944.78 758241.68 N 32 13 25.53 W 103 37 54.1 15000.00 90.00 179.67 9600.00 5515.76 -5515.43 71.91 0.00 445844.78 758241.65 N 32 13 25.53 W 103 37 54.1 15200.00 90.00 179.67 9600.00 5615.76 -5615.43 72.48 0.00 445844.78 758242.21 N 32 13 25.53 W 103 37 54.1 15200.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445844.79 758242.21 N 32 13 22.56 W 103 37 54.1 15200.00 90.00 179.67 9600.00 5815.76 -5815.43 73.63 0.00 445844.79 758242.31 N 32 13 22.56 W 103 37 54.1 15400.00 90.00 179.67 9600.00 5815.76 -5815.43 73.63 0.00 445844.80 758243.38 N 32 13 22.56 W 103 37 54.1 15400.00 90.00 179.67 9600.00 5915.76 -5915.43 74.21 0.00 445844.80 758243.38 N 32 13 22.56 W 103 37 54.1 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 445844.81 758243.51 N 32 13 20.58 W 103 37 54.1 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.31 N 32 13 12.58 W 103 37 54.1 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.31 N 32 13 12.59 W 103 37 54.1 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.31 N 32 13 12.59 W 103 37 54.1 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.31 N 32 13 12.50 W 103 37 54.1 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.31 N 32 13 12.50 W 103 37 54.1 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.31 N 32 13 12.50 W 103 37 54.1 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.31 N 32 13 12.50 W 103 37 54.1 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.31 N 32 13 12.50 W 103 37 54.5 1500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.31 N 32 13 12.50 W 103 37 54.5 1500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.82 758245.81 N 32 13 12.50 W 103 37 54.5 1500.00 90.00 90.00 90.00 90.00 90.00 90.00 9											758239.35 N 32 13 29.49 W 103 37 54.89 758239.93 N 32 13 28.50 W 103 37 54.89
15000.00 90.00 179.67 9600.00 5515.76 -5515.43 71.91 0.00 445844.78 758241.65 N 32 13 25.53 W 103 37 54.8 15100.00 90.00 179.67 9600.00 5615.76 -5615.43 72.48 0.00 445744.79 758242.23 N 32 13 24.54 W 103 37 54.8 15200.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445644.79 758242.81 N 32 13 23.55 W 103 37 54.8 15400.00 90.00 179.67 9600.00 5815.76 -5815.43 73.63 0.00 445544.80 758243.88 N 32 13 22.56 W 103 37 54.8 15400.00 90.00 179.67 9600.00 5815.76 -5915.43 74.21 0.00 44544.80 758243.81 N 32 13 22.56 W 103 37 54.8 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758243.51 N 32 13 20.58 W 103 37 54.8 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 44544.81 758245.81 N 32 13 20.58 W 103 37 54.8 15600.00 90.00 179.67 9600.00 6015.76 -6015.42 75.36 0.00 445244.81 758245.11 N 32 13 19.59 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 44544.82 758245.68 N 32 13 18.50 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445244.81 758245.68 N 32 13 18.60 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445244.82 758245.68 N 32 13 18.60 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445244.82 758245.68 N 32 13 18.60 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445244.82 758245.68 N 32 13 18.60 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445244.82 758245.68 N 32 13 18.60 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445244.82 758245.68 N 32 13 18.60 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445244.82 758245.68 N 32 13 18.60 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445244.82 758245.68 N 32 13 18.60 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 9600.00 6215.76 9600.00 6215.76 9600.00 9600 9600.00 9600 9600 9600 96		14800.00	90.00	179.67	9600.00	5315.76	-5315.44	70.75	0.00	446044.77	758240.50 N 32 13 27.51 W 103 37 54.89
15100.00 90.00 179.67 9600.00 5615.76 -5615.43 72.48 0.00 445744.79 758242.23 N 32 13 24.54 W 103 37 54.8 15200.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445644.79 758242.28 N 32 13 22.55 W 103 37 54.8 15300.00 90.00 179.67 9600.00 5815.76 -5815.43 73.63 0.00 445644.80 758243.28 N 32 13 22.55 W 103 37 54.8 15400.00 90.00 179.67 9600.00 5915.76 -5915.43 74.21 0.00 445644.80 758243.28 N 32 13 22.55 W 103 37 54.8 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 445644.81 758244.58 N 32 13 20.58 W 103 37 54.8 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 445644.81 758244.51 N 32 13 13.05 W 103 37 54.8 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 445644.81 758245.51 N 32 13 13.05 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445144.82 758245.68 N 32 13 13.86 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445144.82 758245.68 N 32 13 18.60 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445144.82 758245.68 N 32 13 18.60 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 9600.00 6215.76 9600.00 90.00											758241.08 N 32 13 26.52 W 103 37 54.89 758241.65 N 32 13 25 53 W 103 37 54.89
15200.00 90.00 179.67 9600.00 5715.76 -5715.43 73.06 0.00 445644.79 758242.81 N 32 13 22.55 W 103 37 54.8 15300.00 90.00 179.67 9600.00 5815.76 -5815.43 73.63 0.00 445644.80 758243.98 N 32 13 22.56 W 103 37 54.8 15400.00 90.00 179.67 9600.00 6915.76 -5915.43 74.21 0.00 445444.80 758243.96 N 32 13 20.58 W 103 37 54.8 15600.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 445244.81 758245.51 N 32 13 20.58 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6115.76 -6115.42 75.94 0.00 445244.81 758245.68 N 32 13 18.08 W 103 37 54.8		15100.00	90.00			5615.76	-5615.43	72.48	0.00	445744.79	758242.23 N 32 13 24.54 W 103 37 54.89
15400.00 90.00 179.67 9600.00 5915.76 -5915.43 74.21 0.00 445444.80 758244.96 N 32 13 21.57 W 103 37 54.8 15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 445344.81 758244.53 N 32 13 20.58 W 103 37 54.8 15600.00 90.00 179.67 9600.00 6115.76 -6115.42 75.36 0.00 445244.81 758244.81 758245.11 N 32 13 12.59 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445144.82 758245.68 N 32 13 18.60 W 103 37 54.8 15700.00 90.00 179.67 9600.00 6215.76 9600.00 6215.76 9600.00 90.00 179.67 9600.00 90.00 179.67 9600.00 90.00 179.67 9600.00 90.00 90.00 179.67 9600.00 90		15200.00	90.00	179.67	9600.00	5715.76	-5715.43	73.06	0.00	445644.79	758242.81 N 32 13 23.55 W 103 37 54.89
15500.00 90.00 179.67 9600.00 6015.76 -6015.43 74.79 0.00 445244.81 758245.5 N 32 13 20.58 W 103 37 54.5 15600.00 90.00 179.67 9600.00 6115.76 -6115.42 75.36 0.00 445244.81 758245.11 N 32 13 19.59 W 103 37 54.5 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445144.82 758245.68 N 32 13 18.60 W 103 37 54.5 15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445144.82 758245.68 N 32 13 18.60 W 103 37 54.5 15700.00 90.00 179.67 9600.00 6215.76 9600.00 6215.76 9600.00 9											758243.38 N 32 13 22.56 W 103 37 54.89 758243.96 N 32 13 21.57 W 103 37 54.90
15700.00 90.00 179.67 9600.00 6215.76 -6215.42 75.94 0.00 445144.82 758245.68 N 32 13 18.60 W 103 37 54.95		15500.00	90.00	179.67	9600.00	6015.76	-6015.43	74.79	0.00	445344.81	758244.53 N 32 13 20.58 W 103 37 54.90
											758246.26 N 32 13 17.61 W 103 37 54.90

Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
	(ft) 15900.00	90.00	(°) 179.67	(ft) 9600.00	(ft) 6415.76	(ft) -6415.42	(ft) 77.09	(°/100ft) 0.00	(ftUS) 444944.83	(ftUS) 758246.84	(N/S ° ' ") N 32 13 16.62	(E/W ° ' ") W 103 37 54.90
	16000.00	90.00	179.67	9600.00	6515.76	-6515.42	77.67	0.00	444844.84	758247.41		W 103 37 54.90
	16100.00	90.00	179.67	9600.00	6615.76	-6615.42	78.24	0.00	444744.84		N 32 13 14.64	
	16200.00	90.00	179.67	9600.00	6715.76	-6715.41	78.82	0.00	444644.85		N 32 13 13.65	
	16300.00	90.00	179.67	9600.00	6815.76	-6815.41	79.39	0.00	444544.85		N 32 13 12.66	
	16400.00	90.00	179.67	9600.00	6915.76	-6915.41	79.97	0.00	444444.86		N 32 13 11.67	
	16500.00	90.00	179.67	9600.00	7015.76	-7015.41	80.55	0.00	444344.86		N 32 13 10.68	
	16600.00	90.00	179.67	9600.00	7115.76	-7115.41	81.12	0.00	444244.87	758250.87	N 32 13 9.69	W 103 37 54.91
	16700.00	90.00	179.67	9600.00	7215.76	-7215.41	81.70	0.00	444144.88		N 32 13 8.71	
	16800.00	90.00	179.67	9600.00	7315.76	-7315.40	82.27	0.00	444044.88		N 32 13 7.72	
	16900.00	90.00	179.67	9600.00	7415.76	-7415.40	82.85	0.00	443944.89	758252.60	N 32 13 6.73	W 103 37 54.91
	17000.00	90.00	179.67	9600.00	7515.76	-7515.40	83.42	0.00	443844.89	758253.17	N 32 13 5.74	W 103 37 54.91
	17100.00	90.00	179.67	9600.00	7615.76	-7615.40	84.00	0.00	443744.90	758253.75	N 32 13 4.75	W 103 37 54.91
	17200.00	90.00	179.67	9600.00	7715.76	-7715.40	84.58	0.00	443644.90	758254.32	N 32 13 3.76	W 103 37 54.91
Lease												
NMNM0553548 -	47040.00	00.00	470.67	0000 00	7700.00	7700.00	04.05	0.00	440000 00	750054.40	N 20 42 2 C2	W 400 07 54 04
NMNM0553642	17212.60	90.00	179.67	9600.00	7728.36	-7728.00	84.65	0.00	443632.30	758254.40	N 32 13 3.63	W 103 37 54.91
Crossing												
	17300.00	90.00	179.67	9600.00	7815.76	-7815.40	85.15	0.00	443544.91	758254.90	N 32 13 2.77	W 103 37 54.91
	17400.00	90.00	179.67	9600.00	7915.76	-7915.39	85.73	0.00	443444.91	758255.47	N 32 13 1.78	W 103 37 54.91
	17500.00	90.00	179.67	9600.00	8015.76	-8015.39	86.30	0.00	443344.92	758256.05	N 32 13 0.79	W 103 37 54.91
	17600.00	90.00	179.67	9600.00	8115.76	-8115.39	86.88	0.00	443244.93	758256.63	N 32 12 59.80	W 103 37 54.92
	17700.00	90.00	179.67	9600.00	8215.76	-8215.39	87.46	0.00	443144.93		N 32 12 58.81	
	17800.00	90.00	179.67	9600.00	8315.76	-8315.39	88.03	0.00	443044.94		N 32 12 57.82	
	17900.00	90.00	179.67	9600.00	8415.76	-8415.39	88.61	0.00	442944.94	758258.35	N 32 12 56.83	W 103 37 54.92
	18000.00	90.00	179.67	9600.00	8515.76	-8515.38	89.18	0.00	442844.95	758258.93	N 32 12 55.84	W 103 37 54.92
	18100.00	90.00	179.67	9600.00	8615.76	-8615.38	89.76	0.00	442744.95	758259.51	N 32 12 54.85	W 103 37 54.92
	18200.00	90.00	179.67	9600.00	8715.76	-8715.38	90.34	0.00	442644.96	758260.08	N 32 12 53.86	W 103 37 54.92
	18300.00	90.00	179.67	9600.00	8815.76	-8815.38	90.91	0.00	442544.96		N 32 12 52.87	
	18400.00	90.00	179.67	9600.00	8915.76	-8915.38	91.49	0.00	442444.97		N 32 12 51.88	
	18500.00	90.00	179.67	9600.00	9015.76	-9015.38	92.06	0.00	442344.98		N 32 12 50.89	
	18600.00	90.00	179.67	9600.00	9115.76	-9115.37	92.64	0.00	442244.98		N 32 12 49.90	
	18700.00	90.00	179.67	9600.00	9215.76	-9215.37	93.21	0.00	442144.99		N 32 12 48.91	
	18800.00	90.00	179.67	9600.00	9315.76	-9315.37	93.79	0.00	442044.99		N 32 12 47.93	
	18900.00	90.00	179.67	9600.00	9415.76	-9415.37	94.37	0.00	441945.00		N 32 12 46.94	
	19000.00	90.00	179.67	9600.00	9515.76	-9515.37	94.94	0.00	441845.00		N 32 12 45.95	
	19100.00	90.00	179.67	9600.00	9615.76	-9615.37	95.52	0.00	441745.01		N 32 12 44.96	
	19200.00	90.00	179.67	9600.00	9715.76	-9715.36	96.09	0.00	441645.01		N 32 12 43.97	
	19300.00	90.00	179.67	9600.00	9815.76	-9815.36	96.67	0.00	441545.02		N 32 12 42.98	
	19400.00 19500.00	90.00	179.67	9600.00	9915.76	-9915.36	97.25	0.00	441445.03		N 32 12 41.99	
		90.00	179.67	9600.00	10015.76	-10015.36	97.82	0.00	441345.03		N 32 12 41.00	
	19600.00	90.00 90.00	179.67	9600.00	10115.76	-10115.36	98.40	0.00	441245.04		N 32 12 40.01	
Cimarex Dos	19700.00	90.00	179.67	9600.00	10215.76	-10215.36	98.97	0.00	441145.04	100200.72	N 32 12 39.02	vv 103 37 54.93
Equis 12-13												
Federal Com	19753.92	90.00	179.67	9600.00	10269.67	-10269.27	99.28	0.00	441091.13	750060.00	N 22 12 20 40	W 102 27 E4 02
#52H - PBHL	19703.92	90.00	179.67	9000.00	10209.07	-10209.27	99.20	0.00	441091.13	100209.03	N 32 12 38.49	W 103 37 54.93
[100' FSL, 1520'												
FWL]												
-												

Survey Type:

Non-Def Plan

Survey Error Model: Survey Program:

ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:							F		
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casi (in)	ing Diameter (in)	Expected Max Inclination (deg)		Borehole / Survey
	1	0.000	26.000	1/100.000	17.500	13.375		NAL_MWD_IFR1+MS-Depth Only	Dos Equis 12-13 Federal Com #52H / Cimarex Dos Equis 12-13 Federal Com #52H Rev1 RM
	1	26.000	19753.916	1/100.000	17.500	13.375		NAL_MWD_IFR1+MS	Dos Equis 12-13 Federal Com #52H / Cimarex Dos Equis 12-13

Schlumberger

Cimarex Dos Equis 12-13 Federal Com #52H Rev1 RM 17Feb20 Proposal **Geodetic Report**



(Non-Def Plan)

February 17, 2020 - 04:05 PM Cimarex Energy Report Date: Client: Field: NM Lea County (NAD 83)

Cimarex Dos Equis 12-13 Federal Com #52H / New Slot Structure / Slot:

Dos Equis 12-13 Federal Com #52H Borehole: Dos Equis 12-13 Federal Com #52H UWI / API#: Unknown / Unknown

Cimarex Dos Equis 12-13 Federal Com #52H Rev1 RM 17Feb20 December 27, 2019 Survey Name:

Survey Date: Tort / AHD / DDI / ERD Ratio:

100.176 ° / 10443.274 ft / 6.333 / 1.088 NAD83 New Mexico State Plane, Eastern Zone, US Feet N 32° 14' 20.10646", W 103° 37' 55.30975" Coordinate Reference System: Location Lat / Long: Location Grid N/E Y/X: N 451360.000 ftUS, E 758169.750 ftUS

0.3741 ° CRS Grid Convergence Angle: Grid Scale Factor: 0.99996294 Version / Patch: 2.10.787.0

Survey / DLS Computation: Vertical Section Azimuth: Minimum Curvature / Lubinski 179.670 ° (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 3634.100 ft above MSL Seabed / Ground Elevation: 3608.100 ft above MSL 6.617° Magnetic Declination:

998.4380mgn (9.80665 Based) GARM Total Gravity Field Strength: **Gravity Model:** Total Magnetic Field Strength: 47842.502 nT Magnetic Dip Angle: Declination Date: Magnetic Declination Model: North Reference: Grid Convergence Used: Total Corr Mag North->Grid

North: Local Coord Referenced To:

59.880° February 17, 2020 HDGM 2019 Grid North 0.3741° 6.2429° Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL [195' FNL, 1480' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	451360.00	758169.75	N 32 14 20.11	W 103 37 55.31
Nudge 2°/100' DLS	2500.00	0.00	12.00	2500.00	0.00	0.00	0.00	0.00	451360.00	758169.75	N 32 14 20.11	W 103 37 55.31
Hold Nudge	2750.00	5.00	12.00	2749.68	-10.65	10.66	2.27	2.00	451370.66	758172.02	N 32 14 20.21	W 103 37 55.28
Drop to Vertical 2°/100' DLS	3503.18	5.00	12.00	3500.00	-74.78	74.87	15.91	0.00	451434.87	758185.66	N 32 14 20.85	W 103 37 55.12
Hold Vertical	3753.18	0.00	12.00	3749.68	-85.43	85.54	18.18	2.00	451445.53	758187.93	N 32 14 20.95	W 103 37 55.09
KOP - Build 12°/100' DLS	9125.27	0.00	12.00	9121.77	-85.43	85.54	18.18	0.00	451445.53	758187.93	N 32 14 20.95	W 103 37 55.09
Build & Turn 12°/100' DLS	9416.94	35.00	174.30	9395.63	0.54	-0.39	26.76	12.00	451359.61	758196.50	N 32 14 20.10	W 103 37 55.00
Landing Point Cimarex Dos	9876.74	90.00	179.67	9600.00	392.49	-392.26	42.40	12.00	450967.76	758212.15	N 32 14 16.22	W 103 37 54.85
Equis 12-13 Federal Com #52H - PBHL [100' FSL, 1520'	19753.92	90.00	179.67	9600.00	10269.67	-10269.27	99.28	0.00	441091.13	758269.03	N 32 12 38.49	W 103 37 54.93

Survey Type:

FWL]

Non-Def Plan

Survey Error Model: Survey Program:

ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

 Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casi (in)	ing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	26.000	1/100.000	17.500	13.375		NAL_MWD_IFR1+MS-Depth Only	Dos Equis 12-13 Federal Com #52H / Cimarex Dos Equis 12-13 Federal Com #52H Rev1 RM
	1	26.000	19753.916	1/100.000	17.500	13.375		NAL_MWD_IFR1+MS	Dos Equis 12-13 Federal Com #52H / Cimarex Dos Equis 12-13

Drilling Office 2.10.787.0

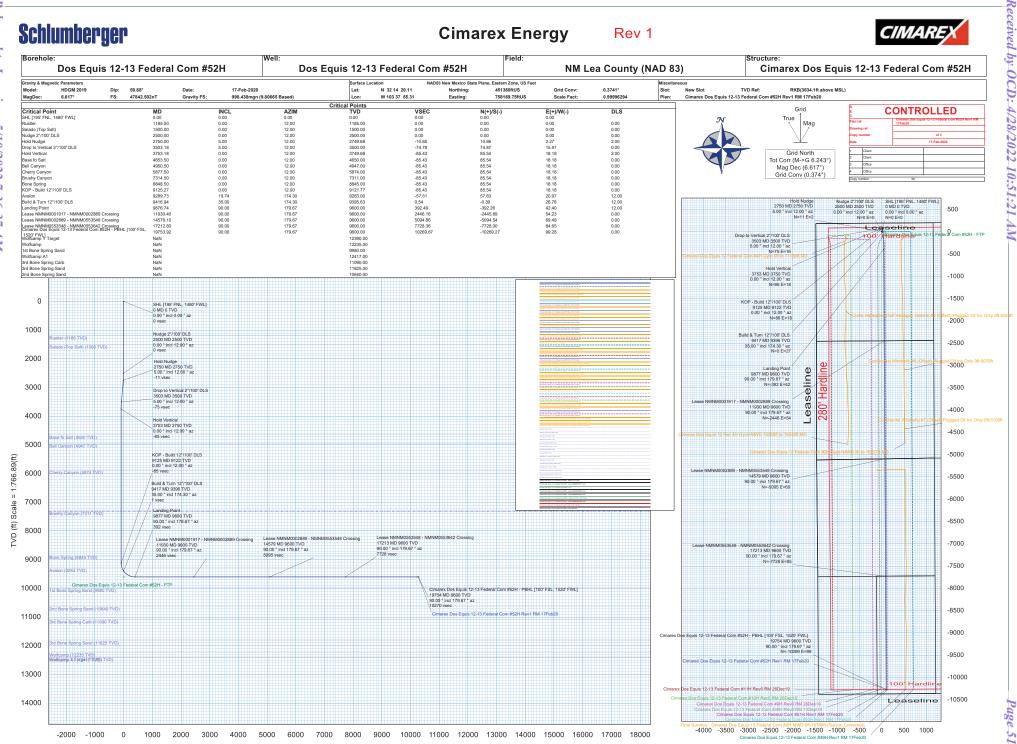
Schlumberger

Cimarex Energy

Rev 1



4/28/2022 10:51:21



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

GAS	CA	PT	IIRI	E PI	AN

Date: 4/30/20		
□ Original	Operator & OGRID No.:	Cimarex Energy Co- 215099
☐ Amended - Reason for Amendment:		

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

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

Well(s)/Production Facility - Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Dos Equis 12-13 Fed Com 52H	Pending	12-24S-32E	195'FNL & 1480' FWL	5000		

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to <u>LUCID</u> and will be connected to <u>LUCID</u> low/high pressure gathering system located in <u>Lea</u> County, New Mexico. It will require <u>500</u> ' of pipeline to connect the facility to low/high pressure gathering system. <u>CIMAREX</u> provides (periodically) to <u>LUCID</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>CIMAREX</u> and <u>LUCID</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>LUCID</u> Processing Plant located in <u>Sec 13-24S-33E</u>, <u>Lea</u> County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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

1. Geological Formations

TVD of target 9,600 Pilot Hole TD N/A

MD at TD 19,754 Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1185	Useable Water	
Salado	1500	N/A	
Base of Salt	4650	N/A	
Bell Canyon	4947	N/A	
Cherry Canyon	5874	N/A	
Brushy Canyon	7311	Hydrocarbons	
Bone Spring	8845	Hydrocarbons	
Upper Avalon Shale	9283	Hydrocarbons	

2. Casing Program

	_	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1235	1235	13-3/8"	48.00	H-40	ST&C	1.38	3.23	5.43
12 1/4	0	4897	4897	9-5/8"	36.00	J-55	ST&C	1.21	1.38	2.24
8 3/4	0	9125	9125	5-1/2"	20.00	L-80	LT&C	2.07	2.15	2.17
8 3/4	9125	19754	9600	5-1/2"	20.00	L-80	BT&C	1.97	2.00	49.05
					BLM	Minimum Sa	afety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

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

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	599	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	160	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	918	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	286	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	382	10.30	3.64	22.18		Lead: Tuned Light + LCM
	2583	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS
			-	-		

Casing String	тос	% Excess
Surface	0	45
Intermediate	0	51
Production	4697	25

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size	Min Required WP	Туре		Tested To
12 1/4	13 5/8	2M	Annular	Х	
			Blind Ram		
			Pipe Ram		2M
			Double Ram	Х	
			Other		
8 3/4	13 5/8	5M	Annular	Х	
			Blind Ram		
			Pipe Ram		5M
			Double Ram	Х	
			Other		

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

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

	On Expl	ion integrity test will be performed per Onshore Order #2. loratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.			
Х	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.				
	N A	re anchors required by manufacturer?			

5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 1235'	Fresh Water	7.83 - 8.33	28	N/C
1235' to 4897'	Brine Water	9.50 - 10.00	30-32	N/C
4897' to 19754'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C

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

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

6. Logging and Testing Procedures

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

Additional Logs Planned	Interval
<u> 9</u> - :	

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	4492 psi
Abnormal Temperature	No

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

H2S is present

H2S plan is attached

8. Other Facets of Operation

9. Wellhead

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to 100% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

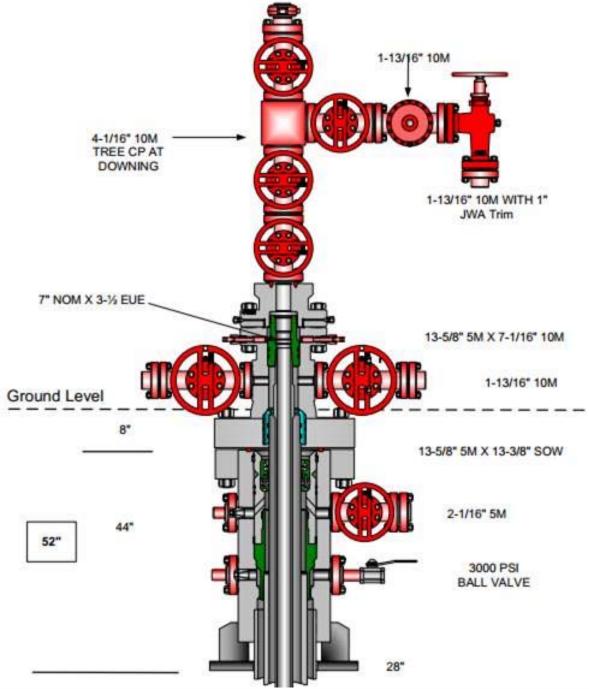
All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

All casing strings will be tested as per Onshore Order No.2 to atleast 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Multi-bowl Wellhead DiagramDos Equis 12-13 Fed Com 52H



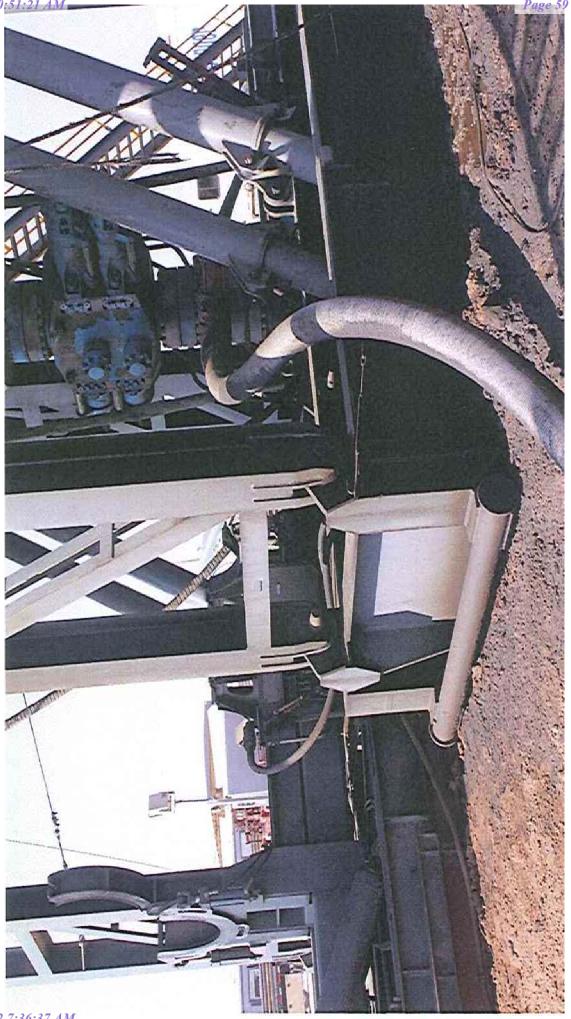
Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1235	1235	13-3/8"	48.00	H-40	ST&C	1.38	3.23	5.43
12 1/4	0	4897	4894	9-5/8"	36.00	J-55	ST&C	1.21	1.38	2.24
8 3/4	0	9125	9125	5-1/2"	20.00	L-80	LT&C	2.07	2.15	2.17
8 3/4	9125	19754	9600	5-1/2"	20.00	L-80	BT&C	1.97	2.00	49.05
	•			•	BLM	Minimum	Safety Factor	1.125	1	1.6 Dry

Received by OCD: 4/28/2022 10:51:21 AM

age 59 of 72

Co-Flex Hose **Dos Equis 12-13 Federal Com 52H**Cimarex Energy Co.

Cimarex Energy Co. 12-24S-32E Lea Co., NM



Co-Flex Hose Hydrostatic Test

Dos Equis 12-13 Federal Com 52H

Cimarex Energy Co.

12-24S-32E

Lea Co., NM



Midwest Hose & Specialty, Inc.

INTERNAL HYDROSTATIC TEST REPORT							
Customer:			P.O. Number:				
CONTRACTOR OF THE PROPERTY OF	derco Inc		odyd-2	71			
	HOSE SPECI	FICATIONS					
Type: Stainless	Steel Armor						
Choke & M	(ill Hose	Î	Hose Length:	45'ft.			
I.D.	INCHES	O.D.	9	INCHES			
WORKING PRESSURE	TEST PRESSUR	E	BURST PRESSUR	E			
10,000 PSI	15,000	PSI	0	PSI			
	COUF	PLINGS					
Stem Part No.		Ferrule No.					
OKC OKC		OKC OKC					
Type of Coupling:							
Swage-	It						
	PROCEDURE						
Hose assembl	/ pressure tested wi	th water at ambient	temperature.				
No.	TEST PRESSURE	T.	URST PRESSURE:				
15	MIN.		0	PSI			
Hose Assembly Seri	al Number:	Hose Serial N	lumber:	30 8.411.3			
79793			окс				
Comments:	Comments:						
Date:	Tested:	0 - 0	Approved:				
3/8/2011	01.0	Saine Suru.	Seriel	d			

Co-Flex Hose Hydrostatic Test Dos Equis 12-13 Federal Com 52H

Cimarex Energy Co. 12-24S-32E Lea Co., NM

March 3, 2011



Pick Ticket #: 94260 Customer: Houston

Hose Specifications

Midwest Hose & Specialty, Inc.

Burst Pressure O.D. 6.09"

I.D

Type of Fitting 41/1610k Die Size 6.38"

Standard Safety Multiplier Applies.

Hose Assembly Serial # 79793

Hose Serial # 5544

Coupling Method Final O.D.

Verification

Pressure Test

Working Pressure 10000 PSI

14000 16000 18000

PSI 8000 12000 10000 6000 4000 2000

Actual Burst Pressure

Time Held at Test Pressure

Minutes

Peak Pressure 15483 PSI

Sola

4:30 PM

Mosti-

No St. S

Se Contraction of the Contractio

No Ship

Wash.

S. S. A. P. W.

Time in Minutes

Approved By: Kim Thomas

Tested By: Zoc Mcconnell

Comments: Hose assembly pressure tested with water at ambient temperature.

Test Pressure 15000 PSI

Co-Flex Hose

Dos Equis 12-13 Federal Com 52H

Cimarex Energy Co.

12-24S-32E

Lea Co., NM



Midwest Hose & Specialty, Inc.

Certificate of Conformity					
Customer:	PO				
DEM	ODYD-271				
Sales Order	SPECIFICATIONS				
79793	Dated: 3/8/2011				
W 1	3/6/2011				
for the referenced according to the r	that the material supplied d purchase order to be true requirements of the purchase industry standards				
Supplier: Midwest Hose & S 10640 Tanner Roa Houston, Texas 7	ad				
comments:					
comments:					
omments:	Date:				



Co-Flex Hose Dos Equis 12-13 Federal Com 52H Cimarex Energy Co. 12-24S-32E Lea Co., NM

Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium componets. The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male threads, hubs, harnmer unions or other special fittings upon request. Hose assembly is manufactured to API 7K. This assembly is wrapped with fire resistant vermculite coated fiberglass insulation, rated at 2000 degrees with stainless steel armor cover.

Working Pressure:

5,000 or 10,000 psi working pressure

Test Pressure:

10,000 or 15,000 psi test pressure

Reinforcement:

Multiple steel cables

Cover:

Stainless Steel Armor

Inner Tube:

Petroleum resistant, Abrasion resistant

End Fitting:

API flanges, API male threads, threaded or butt weld hammer

unions, unibolt and other special connections

Maximum Length:

110 Feet

ID:

2-1/2", 3", 3-1/2". 4"

Operating Temperature: -22 deg F to +180 deg F (-30 deg C to +82 deg C)

P.O. Box 96558 - 1421 S.E. 29th St. Oklahoma City, OK 73143 * (405) 670-6718 * Fax: (405) 670-6816

I. Operator: Cimarex Energy Company

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Date: 4 / 28 / 2022

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

OGRID: 215099

II.Type [*] ☑ Original ☐ A	Amendment	due to 19.15.27.9	.D(6)(a) NMAC	C □ 19.15.27.9.D(6	6)(b) NM	IAC □ Oth	er.
If Other, please describe:							
III. Well(s): Provide the find the find the recompleted from a sin					wells pro	posed to be	drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		ipated ICF/D	Anticipated Produced Water BBL/D
Dos Equis 12-13 Fed Com 52H		C, Sec 12, R24S, R32E	195 FNL/1480 F	WL 1200	1800	0	1300
V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point. Well Name API Spud Date TD Reached Completion Date Tompletion Commencement Date Back Date Date						w First Production	
Dos Equis 12-13 Fed Com 52H		1/1/2024	3/1/2024	6/1/2024		8/1/2024	8/1/2024
VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.							

Section 2 – Enhanced Plan

			E APRIL 1, 2022	
	2022, an operator th complete this section		with its statewide natural ga	as capture requirement for the applicable
	s that it is not require for the applicable re		tion because Operator is in o	compliance with its statewide natural gas
IX. Anticipated Na	tural Gas Production	on:		
W	fell	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Ga	thering System (NG	GGS):		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
production operation the segment or portion in the Segment of t	ns to the existing or p on of the natural gas or. The natural gas gat from the well prior to e. Operator does	planned interconnect of the gathering system will thering system will to the date of first product does not anticipate that	he natural gas gathering systewhich the well(s) will be consisted will not have capacity to go tion.	nticipated pipeline route(s) connecting the em(s), and the maximum daily capacity of nected. gather 100% of the anticipated natural gas ted to the same segment, or portion, of the in line pressure caused by the new well(s).
☐ Attach Operator'	s plan to manage pro	duction in response to the	ne increased line pressure.	
Section 2 as provide	ed in Paragraph (2) of		27.9 NMAC, and attaches a f	SA 1978 for the information provided in full description of the specific information

(i)

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, a	after reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of	e to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the a into account the current	e able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. **box, Operator will select one of the following:*
Well Shut-In. □ Opera D of 19.15.27.9 NMAC	tor will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection c; or
Venting and Flaring P	Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential
alternative beneficial us	ses for the natural gas until a natural gas gathering system is available, including:
(a)	power generation on lease;
(b)	power generation for grid;
(c)	compression on lease;
(d)	liquids removal on lease;
(e)	reinjection for underground storage;
(f)	reinjection for temporary storage;
(g)	reinjection for enhanced oil recovery;
(h)	fuel cell production; and

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: Sarah Jordan			
Printed Name: Sarah Jordan			
Title: Regulatory Analyst			
E-mail Address: sarah.jordan@coterra.com			
Date: 4/28/2022			
Phone: 432/620-1909			
OIL CONSERVATION DIVISION			
(Only applicable when submitted as a standalone form)			
Approved By:			
Title:			
Approval Date:			
Conditions of Approval:			

From State of New Mexico, Natural Gas Management Plan

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

XEC Standard Response

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.

Cimarex

VII. Operational Practices

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

- 1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
 - a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
- 2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
- 3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
- 4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
- 5. Under routine production operations, Cimarex will not flare/vent unless:
 - a. Venting or flaring occurs due to an emergency or equipment malfunction.
 - b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
 - c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
 - d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
 - e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
 - f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
 - g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
 - h. Venting or flaring occurs as a result of normal dehydration unit operations.

- i. Venting or flaring occurs as a result of bradenhead testing.
- j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
- k. Venting or flaring occurs as a result of a packer leakage test.
- l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
- m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.
- 6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
- 7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
- 8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc...
- 9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
 - a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
 - b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
- 10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
- 11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
 - a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
- 12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

• Workovers:

- o Always strive to kill well when performing downhole maintenance.
- o If vapors or trapped pressure is present and must be relieved then:
 - Initial blowdown to production facility:
 - Route vapors to LP flare if possible/applicable
 - Blowdown to portable gas buster tank:
 - Vent to existing or portable flare if applicable.

• Stock tank servicing:

- o Minimize time spent with thief hatches open.
- When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
 - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
- o Isolate the vent lines and overflows on the tank being serviced from other tanks.

• Pressure vessel/compressor servicing and associated blowdowns:

- o Route to flare where possible.
- o Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
- Preemptively changing anodes to reduce failures and extended corrosion related servicing.
- When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

• Flare/combustor maintenance:

- Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
- Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
- Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.

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

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

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

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

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

CONDITIONS

Action 102415

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
600 N. Marienfeld Street	Action Number:
Midland, TX 79701	102415
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	5/9/2022
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	5/9/2022
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	5/9/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	5/9/2022