Received by UCD: 37/2024 8:29:58 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Report 03/04/2024
Well Name: DOS EQUIS 12-13 FEDERAL COM	Well Location: T24S / R32E / SEC 12 / NENW /	County or Parish/State:
Well Number: 48H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM001917	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550120	Well Status: Approved Application for Permit to Drill	Operator: CIMAREX ENERGY COMPANY

Notice of Intent

Sundry ID: 2704836

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Type of Submission: Notice of Intent

Date Sundry Submitted: 11/29/2022

Date proposed operation will begin: 01/01/2023

Type of Action: APD Change Time Sundry Submitted: 01:01

Procedure Description: Cimarex Energy Company respectfully requests to change the FTP, BHL, formation and pool, proposed total depth and change the drilling plan as follows: FTP change: From: 255' FNL & 1580 FWL, Unit C, Sec 12, 24S, 32E To: 100' FNL & 2025' FWL, Unit C, Sec 12, 24S, 32E BHL change: FROM:100' FSL & 1386' FWL (Unit N, SESW) of Section13-T24S-R32E To: 100' FSL & 2025' FWL (Unit N,SWSE) of Section13-T24S-R32E The Pool will also be changed as follows: FROM:WC-025;G-08;S243213C;Wolfcamp (Pool Code 98309) TO: Triple X; Bone Spring, West (96674) Proposed Total Depth will be changed as follows: FROM:22379'MD/12340'TVD TO:20048'MD/10167'TVD The drilling plan will be updated to include a request for approval to perform off-line cementing and request approval to skid the rig to the next well on the pad to begin operations instead of waiting 8 hours for surface casing cement to harden before skidding rig.

NOI Attachments

Procedure Description

Re_Submitted_3160_5___Dos_Equis_12_13_Federal_Com__48H__change_BHL__drilling_plan__11.29.2022 _20221129125938.pdf

eceived by OCD: 3/7/2024 8:29:58 AM Well Name: DOS EQUIS 12-13 FEDERAL COM	Well Location: T24S / R32E / SEC 12 / NENW /	County or Parish/State: Page 2 of
Well Number: 48H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM001917	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550120	Well Status: Approved Application for Permit to Drill	Operator: CIMAREX ENERGY COMPANY
Conditions of Approv	val	
Specialist Review	COA 20221120121020 pdf	
Dos_Equis_12_13_Fed_Com_48H_(50A_20221130121929.put	
crime for any person knowingly and w	correct. Title 18 U.S.C. Section 1001 and Title illfully to make to any department or agency o ations as to any matter within its jurisdiction. I regulations requiring a	of the United States any false, fictitious
Operator Electronic Signature: KAN	IICIA02 SCHLICHTING Sig	ned on: NOV 30, 2022 09:18 AM
Name: CIMAREX ENERGY COMPAN	٨Y	

Title: Regulatory Specialist

Street Address: 300 N MARIENFELD ST SUITE 1000

City: MIDLAND State: TX

Phone: (432) 232-2875

Email address: INACTIVE@NOTREAL.COM

Field

Representative Name: Street Address: City: Phone: Email address:

State:

BLM Point of Contact

BLM POC Name: ZOTA M STEVENS BLM POC Phone: 5752345998 Disposition: Approved Signature: Zota Stevens BLM POC Title: Petroleum Engineer BLM POC Email Address: ZSTEVENS@BLM.GOV

Disposition Date: 11/30/2022

Zip:

Received by OCD: 3/7/2024 8:29:58 AM

<i>cectrea</i> by 0 cb. 5777						ruge o oj
Form 3160-5 (June 2019)	221	UNITED STATE PARTMENT OF THE I EAU OF LAND MAN	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No.			
Do not u	use this f		ORTS ON WELLS to drill or to re-enter an PD) for such proposals		6. If Indian, Allottee or	Tribe Name
S	SUBMIT IN	TRIPLICATE - Other instru	uctions on page 2		7. If Unit of CA/Agree	ment, Name and/or No.
1. Type of well Oil Well	🗌 Gas V	Vell Other			8. Well Name and No.	
2. Name of Operator					9. API Well No.	
3a. Address			3b. Phone No. <i>(include area code)</i>		10. Field and Pool or Exploratory Area	
4. Location of Well (Foota	ge, Sec., T.,F	R.,M., or Survey Description))		11. Country or Parish, S	State
	12. CHE	CK THE APPROPRIATE B	OX(ES) TO INDICATE NATURE	E OF NOT	ICE, REPORT OR OTH	ER DATA
TYPE OF SUBMIS	SION		TY	PE OF AC	CTION	
Notice of Intent		Acidize	Deepen Hydraulic Fracturing		duction (Start/Resume) lamation	Water Shut-Off Well Integrity
Subsequent Report		Casing Repair Change Plans	New Construction Plug and Abandon	_	complete pporarily Abandon	Other
Final Abandonment	Notice	Convert to Injection	Plug Back	Wat	ter Disposal	
the proposal is to deep the Bond under which completion of the invo	en directiona the work wil lved operation donment No	Illy or recomplete horizontal be perfonned or provide thors. If the operation results in	ly, give subsurface locations and n e Bond No. on file with BLM/BIA n a multiple completion or recomp	neasured a A. Required oletion in a	and true vertical depths of d subsequent reports mus a new interval, a Form 31	k and approximate duration thereof. If all pertinent markers and zones. Attach t be filed within 30 days following 60-4 must be filed once testing has been e operator has detennined that the site

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)			
	Title		
Signature	Date		
THE SPACE FOR FEDE	RAL OR STATE	OFICE USE	
Approved by			
	Title		Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant of certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.			
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within		willfully to make to any d	lepartment or agency of the United States

(Instructions on page 2)

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. 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 the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

FROM:WC-025;G-08;S243213C;Wolfcamp (Pool Code 98309) TO: Triple X; Bone Spring, West (96674)

Proposed Total Depth will be changed as follows: FROM:22379'MD/12340'TVD TO:20048'MD/10167TVD

The drilling plan will be updated to include a request for approval to perform off-line cementing and request approval to skid the rig to the next well on the pad to begin operations instead of waiting 8 hours for surface casing cement to harden before skidding rig.

Location of Well

0. SHL: NENW / 255 FNL / 1580 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238754 / LONG: -103.631707 (TVD: 0 feet, MD: 0 feet) PPP: NENW / 255 FNL / 1386 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238753 / LONG: -103.632334 (TVD: 12235 feet, MD: 12318 feet) PPP: NENW / 0 FNL / 1386 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.224911 / LONG: -103.632347 (TVD: 12367 feet, MD: 17205 feet) PPP: NESW / 2640 FNL / 1386 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.232194 / LONG: -103.632339 (TVD: 12381 feet, MD: 14555 feet) BHL: SESW / 100 FSL / 1386 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.21069 / LONG: -103.632359 (TVD: 12340 feet, MD: 22379 feet) District 1 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) 748-1285 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6176 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

X AMENDED REPORT

			WELL	LOCATI	ION AND	ACREAGE DE	DICATION PLA	Т		
API Number 30-025-50120 96674 Triple X; Bone Spring, West										
4 Property Code						rty Name 3 FEDERAL COM				⁶ Well Number 48H
	⁷ OGRID No. ⁸ Operator Name ⁹ Elevation 215099 CIMAREX ENERGY CO. 3606.7 ¹									
	"Surface Location									
UL or lot no. C	Section 12	Township 24S	Range 32E	Lot Idn	Feet from the 255	North/South lin NORTH	ne Feet from the 1580	East/W WE		County LEA
	"Bottom Hole Location If Different From Surface									
UL or lot no. N	Section 13	Township 24S	Range 32E	Lot Idn	Feet from the 100					
12 Dedicated Acro	es 13	Joint or Infill	14 Conso	olidation Code	15 Order	No.				

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



1. Geological Formations

TVD of target 10,167	Pilot Hole TD N/A
MD at TD 20,048	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	4947	N/A	
Brushy Canyon	7311	Hydrocarbons	
Bone Spring	8845	Hydrocarbons	
1st Bone Spring Sand	9980	Hydrocarbons	
2nd Bone Spring Sand	10640	Hydrocarbons	
3rd Bone Spring Carb	11090	Hydrocarbons	
Wolfcamp	12235	Hydrocarbons	

2. Casing Program

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	1215	1215	13-3/8"	48.00	H-40	ST&C	1.41	3.29	5,52
12 1/4	0	4945	4945	9-5/8"	40.00	HCK-55	LT&C	1.44	1.49	2.84
8 3/4	0	9611	9611	7"	29.00	L-80	LT&C	1.56	1.81	2.00
8 3/4	9611	10361	10127	7"	29.00	P-110	BT&C	1.80	2.37	62.08
6	8611	20048	10167	4-1/2"	11.60	P-110	BT&C	1.59	2.25	20.33
			I	P	BLM	Minimum	Safety 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	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
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?	Ν
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

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3. Cementing Program

Casing	# Sks	Wt. Ib/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	589	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	158	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	929	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	289	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	433	10.30	3.64	22,18		Lead: Tuned Light + LCM
	-238	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Completion System	719	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	4745	25
Completion System	10161	10

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

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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	X	. <u></u>
			Blind Ram	· · · · · · · · · · · · · · · · · · ·	
			Pipe Ram		2M
			Double Ram	x	
			Other		
8 3/4	13 5/8	ЗM	Annular	x	
			Blind Ram		
			Pipe Ram		ЗМ
			Double Ram	x	
			Other		
6	13 5/8	5M	Annular	x	
			Blind Ram]
			Pipe Ram	x	5M
			Double Ram	x]
			Other		1

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.

1	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
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 Are anchors required by manufacturer?

5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss						
0' to 1215'	Fresh Water	7.83 - 8.33	28	N/C						
1215' to 4945'	Brine Water	9.80 - 10.30	30-32	N/C						
4945' to 10361'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C						
12939' to 20048'	ОВМ	8.50 - 9.00	50-70	N/C						

Cimarex Energy Co., Dos Equis 12-13 Federal Com 48H

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

Wi	Vill 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.
X No	lo logs are planned based on well control or offset log information.
Dri	Drill stem test?
Co	ioring?

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	4758 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.

Х	H2S is present
X	H2S plan is attached

8. Other Facets of Operation

9. Wellhead

Received by OCD: 3/7/2024 8:29:58 AM

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 50% 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.

A solid steel body pack-off will be utilized after running and cementing the production 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.

10.0ther Variances

Cimarex requests to perform offline cementing. OLC procedure as follows: 1.Land casing on solid body mandrel hanger. Engage packoff and lock ring. 2. Install BPV. 3. Skid rig. 4. Check for pressure and remove BPV. 5. Circulate down casing, taking returns through casing valves. 6. Pump lead and tail cement. 7. Displace cement and bump the plug. 8. Ensure floats are holding pressure. 9. RD cement crew. 10. Install BPV and TA cap.

Cimarex requests permission to skid the rig to the next well on the pad to begin operations instead of waiting 8 hours for surface cement to harden on this 48H well. Surface cement will be pumped and we will ensure floats hold, do a green cement test and then skid to the next well on pad. We will not perform any operations on this 48H well until at least 8 hours and when both tail and lead slurry reach 500 psi. The mandrel hanger is made up on the last joint of 13 3/8" casing and then lowered down with and landing joint. It is then lowered down until the mandrel contacts the landing ring which is pre-welded to the conductor pipe. At this point the 13 3/8" casing is entirely supported by the conductor pipe via the landing ring/mandrel and is independent from the rig. This allows us to walk the rig away from the 48H well and begin work on the next well while the cement is hardening. There is no way for the casing to be moved or knocked off center since it is hanging from the landing ring.

Released to Imaging: 5/3/2024 3:00:14 PM

Schlumberger

Cimarex Dos Equis 12-13 Federal Com #48H Rev1 kFc 05Aug22 Proposal Geodetic Report

(Def Plan)



					(Def P	lan)						
Report Dale: Client: Field: Structure / Slot; Well: Borehole: UWI / API#: Survey Name: Survey Date: Tort / AHD / DDI / ERI Coordinate Reference Location Lat / Long:) Ratio:	Dos Equis 12-13 Dos Equis 12-13 Unknown / Unkno Cimarex Dos Equ September 24, 20 110.000 * / 10563 NAD83 New Mex	NAD 83) ils 12-13 Federal Co Federal Com #48H Federal Com #48H wn ils 12-13 Federal Co	m #48H Rev1 kFc 05Aug2; 39 Jern Zone, US Feet	ע ד ד נ נ נ נ נ נ נ נ נ נ נ נ נ נ נ נ נ	Survey / DLS Computati Vertical Section Azimuth Vertical Section Origin: VD Reference Datum: VD Reference Elevatio Seabed / Ground Elevati Aagnetic Declination: Fotal Gravity Field Stree Gravity Model: Fotal Magnetic Field Str Agagnetic Dip Angle: Declination Date:	n: ion: ngth:	Minimum Curvature 179.670 * (Grid Nori 0.000 ft, 0.000 ft RKB 3634.200 ft above N 3608.200 ft above N 6.325 * 986.4381mgn (9.800 GARM 47573.131 n 59.831 * August 05, 2022	h) ISL ISL	30.02:	5-50	120
Location Grid N/E Y/)			IS, E 758270.170 fil	JS		Magnetic Declination Mo	odel:	HDGM 2022				
CRS Grid Convergen Grid Scale Factor:	ce Angle:	0.3743 ° 0.99996299				Vorth Reference: Grid Convergence Used	:	Grid North 0.3743 °				
Version / Patch:		2.10.832.2			-	Fotal Corr Mag North->0		5.9512 °				
		2				vorth: _ocal Coord Referenced	i To:	Well Head				
	MD	Inc	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
Comments SHL [255' FNL,	(ft	(°) (°)	(ft)	<u>(ft)</u>	(ft)	(ft)		(ftUS)	(ftUS)	(N/S °)	(E/W °)
1580' FWL]	0.00			0.00	0.00	0.00	0.00		451300.75	758270.17	N 32.238754	W 103.631707
	100.00 200.00			100.00 200.00	0.00 0.00	0.00 0.00	0.00 0.00		451300.75 451300.75	758270.17 758270.17	N 32.238754 N 32.238754	W 103.631707 W 103.631707
	300.00) 102.49	300.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
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	500.00 600.00			600.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
	700.00			700.00	0.00	0.00	0.00		451300.75	758270.17 758270.17	N 32.238754 N 32.238754	W 103.631707 W 103.631707
	800.00 900.00			800.00 900.00	0.00 0.00	0.00 0.00	0.00 0.00		451300.75 451300.75	758270.17	N 32.238754	W 103.631707
	1000.00	0.00) 102.49	1000.00	0,00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
Rustler	1100.00 1186.50			1100.00 <i>1186.50</i>	0.00 <i>0.00</i>	0.00	0.00 0.00		451300.75 451300.75	758270.17 758270.17	N 32.238754 N 32.238754	W 103.631707 W 103.631707
Rusio	1200.00			1200.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
	1300.00 1400.00			1300.00 1400.00	0.00 0.00	0.00 0.00	0.00		451300.75 451300.75	758270.17 758270.17	N 32.238754 N 32.238754	W 103.631707 W 103.631707
	1500.00			1500.00	0.00	0.00	0.00		451300.75	758270.17	N 32.238754	W 103.631707
Salado (Top	1501.50	0.00) 102.49	1501.50	0.00	0.00	0.00	0.00	451300,75	758270.17	N 32.238754	W 103.631707
Salt)	1600.00	0.0	0 102.49	1600.00	0.00	0.00	0.00		451300.75	758270.17	N 32.238754	W 103.631707
	1700.00				0.00 0.00	0.00	0.00 0.00		451300.75 451300.75	758270.17 758270.17	N 32.238754 N 32.238754	W 103.631707 W 103.631707
	1800.00 1900.00				0.00	0.00	0.00		451300.75	758270.17	N 32.238754	W 103.631707
	2000.00	0.0			0.00	0.00	0.00		451300.75	758270.17 758270.17	N 32.238754 N 32.238754	W 103.631707 W 103.631707
Nudge, Build	2100.00				0.00	0.00	0.00		451300.75			
2°/100ft	2101.50				0.00	0.00	0.00		451300.75	758270.17	N 32.238754 N 32.238753	W 103.631707 W 103.631702
,	2200.00 2300.00				0.38 1,53	-0.37 -1.49	1.65 6.71		451300.38 451299.26	758271.82 758276.88	N 32.238750	W 103.631685
	2400.00	5.9	7 102.49	2399.46	3,45	-3.36	15.17	7 2.00	451297.39	758285.34	N 32.238744	W 103.631658
	2500.04 2600.04				6.14 9.60	-5.99 -9.36	27.02 42.24		451294.76 451291.39	758297.19 758312.41	N 32.238737 N 32.238727	W 103.631620 W 103.631571
Hold	2601.5	10.0	0 102.49	2598.97	9.66	-9.41	42.49	2.00	451291.34	758312.66	N 32.238727	W 103.631570
	2700.0 2800.0				13.46 17.31	-13.11 -16.87	59.19 76.15		451287.64 451283.88	758329.36 758346.31	N 32.238717 N 32.238706	W 103.631516 W 103.631461
	2900.0		0 102.49	2892,93	21.16	-20.63	93.10	0.00	451280.12	758363.27	N 32.238695	W 103.631406
	3000.0				25,02 28.87	-24.38 -28.14	110.05 127.01		451276.37 451272.61	758360.22 758397.17	N 32.238685 N 32,238674	W 103.631352 W 103.631297
	3100.0 3200.0				32.73	-31.90	143.96	3 0.00	451268.85	758414.13	N 32.238664	W 103.631242
	3300.0				36.58 40.43	-35.65 -39.41	160.92 177.87		451265.10 451261.34	758431.08 758448.03	N 32.238653 N 32.238642	W 103.631187 W 103.631133
	3400.0 3500.0				44.29	-43.17	194.8		451257.59	758464.99	N 32.238632	W 103.631078
	3600.0	10.0			48.14 51.99	-46.92 -50.68	211.70 228.73		451253.83 451250.07	758481.94 758498.89	N 32.238621 N 32.238610	W 103.631023 W 103.630968
	3700.0 3800.0				55.85	-54,43	245.69		451246.32	758515.85	N 32.238600	W 103.630914
	3900.0	0 10.0	0 102.49	3877.74	59.70	-58.19	262.64		451242.56	758532.80 758549.75	N 32.238589 N 32.238579	W 103.630859 W 103.630804
	4000.0 4100.0				63.56 67.41	-61.95 -65.70	279.5 296.5		451238.81 451235.05		N 32,238568	W 103.630749
	4200.0	0 10.0	0 102.49	4173.18	71,26	-69.46	313.5 330.4	0.00	451231.29	758583.66 758600.61	N 32.238557 N 32.238547	W 103.630695 W 103.630640
	4300.0 4400.0				75.12 78.97	-73.22 -76.97	347.4		451227.54 451223.78		N 32.238536	W 103.630585
	4500.0	D 10.0	0 102.49	4468.62	82.83	-80.73	364.3	6 0.00	451220.02		N 32.238525 N 32.238515	W 103.630530
Base fo Salt	4600.0 4685.7				86.68 89.98	-84.49 -87.70	381.3 395.8		451216.27 451213.05	758651.47 758666.00	N 32.238515 N 32.238506	W 103.630476 W 103.630429
Dase to Gak	4700.0	0 10.0	0 102.49	4665.58	90.53	-88.24	398.2	7 0.00	451212.51	758668.43	N 32.238504	W 103.630421
Drop 2°/100ft	4729.1 4800.0				91.66 94.20	-89,34 -91.81	403.2 414.3	1 0.00 8 2.00	451211.42 451208.94		N 32.238501 N 32.238494	W 103.630405 W 103.630369
	4900.0	0 6.5	iB 102.49	4863.33	97.12	-94.67	427.2	6 2.00	451206.09	758697.42	N 32.238486	W 103.630327
Bell Canyon	4985.6 5000.0				99.02 99.28	-96.51 -96.77	435.60 436.7		451204.24 451203.98	758705.75 758706.91	N 32.238481 N 32.238480	W 103.630300 W 103.630297
	5100.0	0 2.5	8 102.49	5062.65	100.67	-98.12	442.8	6 2.00	451202.63	758713.01	N 32.238476	W 103.630277
	5200.0 5229.1				101.28 101.32		445.5 445.7		451202.04 451202.00		N 32.238474 N 32.238474	W 103.630268 W 103.630268
Hold	5300.0	0.0	0 102.49	5262.61	101.32	-98.75	445.7	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	5400.0 5500.0	0.0			101.32 101.32		445.7 445.7		451202.00 451202.00		N 32.238474 N 32.238474	W 103.630268 W 103.630268
	5600.0	0 0.0	0 102.49	5562.61	101.32	-98.75	445.7	0 0.00	451202.00	758715.85	N 32.238474	W 103.630268
	5700.0	0 0.0	0 102.49	5662.61	101.32 101.32		445.7 445.7		451202.00 451202.00		N 32.238474 N 32.238474	W 103.630268 W 103.630268
	5800.0 5900.0			5862,61	101.32	-98.75	445,7	0.00	451202.00	758715.85	N 32.238474	W 103.630268
Cherry Canyon	5912.8	9 0.0	0 102.49	5875.50	101.32		445.7		451202.00 451202.00		N 32.238474 N 32.238474	W 103.630268 W 103.630268
	6000.0 6100.0				101.32 101.32		445.7 445.7	0.00	451202.00	758715.85	N 32.238474	
	6200.0	0 0.0	0 102.49	6162.61	101.32	-98.75	445.7	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	6300.0 6400.0				101.32 101.32		445.7 445.7		451202.00 451202.00	758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
	6500.0				101.32		445.7		451202.00	758715.85	N 32.238474	

Comments	MD (ft)	inci (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W °)
	6600,00	0.00	102.49	6562.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	6700.00 6800.00	0.00 0.00	102.49 102.49	6662.61 6762.61	101.32 101.32	-98.75 -98.75	445.70 445.70	0.00 0.00	451202.00 451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
	6900.00	0.00	102.49	6862.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	7000.00 7100.00	0.00 0.00	102.49 102.49	6962.61 7062.61	101.32 101.32	-98.75 -98.75	445.70 445.70	0.00 0.00	451202.00 451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
	7200.00	0.00	102.49	7162.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474 N 32.238474	W 103.630268
Brushy Canyon	7300.00 7349.89	0.00 0.00	102.49 102.49	7262.61 7312.50	101.32 101.32	-98.75 -98,75	445.70 445.70	0.00 0.00	451202.00 451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
2.2011/ 0011/011	7400.00	0.00	102.49	7362.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	7500.00 7600.00	0.00 0.00	102.49 102.49	7462.61 7562.61	101.32 101.32	-98.75 -98.75	445.70 445.70	0.00 0.00	451202.00 451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
	7700.00	0.00	102.49	7662.61	101.32	-98,75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	7800.00 7900.00	0.00 0.00	102.49 102.49	7762.61 7862.61	101.32 101.32	-98.75 -98.75	445.70 445.70	0.00	451202.00 451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
	8000.00	0.00	102.49	7962.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	8100.00 8200.00	0.00 0.00	102.49 102.49	8062.61 8162.61	101.32 101.32	-98.75 -98.75	445.70 445.70	0.00 0.00	451202.00 451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
	8300.00	0.00	102.49	8262.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	8400.00 8500.00	0.00	102.49 102.49	8362,61 8462.61	101.32 101.32	-98.75 -98,75	445.70 445.70	0.00 0.00	451202.00 451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
	8600.00	0.00	102.49	8562.61	101.32	-98.75	445.70	0,00	451202.00	758715.85	N 32.238474	W 103.630268
	8700.00 8800,00	0.00 0.00	102.49 102.49	8662.61 8762.61	101.32 101.32	-98.75 -98.75	445.70 445.70	0.00 0.00	451202.00 451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
Bone Spring	8883,89	0.00	102.49	8846.50	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	8900.00	0.00	102.49 102.49	8862.61 8962.61	101.32 101.32	-98.75 -98.75	445.70 445.70	0.00 0.00	451202.00 451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
	9000.00 9100.00	0.00	102.49	9062.61	101.32	-98,75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	9200.00	0.00	102.49	9162.61	101.32	-98.75	445.70	0.00 0.00	451202.00 451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103,630268 W 103,630268
Avalon	9300.00 9321.89	0.00 0.00	102.49 102.49	9262,61 9284.50	101.32 101.32	-98.75 -98.75	445.70 445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	9400.00	0.00	102.49	9362.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	9500.00 9600.00	0.00 0.00	102.49 102.49	9462.61 9562.61	101.32 101.32	-98.75 -98.75	445.70 445.70	0.00 0.00	451202.00 451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
KOP, Build	9611.41	0.00	102.49	9574.02	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
10º/100ft	9700.00	8.86	179.67	9662.25	108.15	-105.58	445.74	10.00	451195.17	758715.89	N 32.238456	W 103.630268
	9800.00	18.86	179.67	9759.22	132.07	-129.51	445.88	10.00	451171.25	758716.03	N 32.238390	W 103.630268
	9900.00 10000.00	28.86 38.86	179.67 179.67	9850.56 9933.49	172.47 228.11	-169.90 -225.55	446.11 446.43	10.00 10.00	451130.85 451075.21	758716.26 758716.58	N 32.238279 N 32.238126	W 103.630268 W 103.630268
1st Bone Spring	10064.73	45.33	179.67	9981.50	271.48	-268.91	446,68	10.00	451031.85	758716.83	N 32.238007	W 103.630268
Sand		48.86	179.67	10005.51	297.31	-294.74	446.83	10.00	451006.02	758716.98	N 32,237936	W 103.630268
	10100.00 10200.00	58,86	179.67	10064.41	377.97	-375.40	447.29	10.00	450925.37	758717.45	N 32.237714	W 103,630268
	10300.00	68.86	179.67	10108.41	467.62 525.98	-465.05 -523.41	447.81 448.15	10.00 10.00	450835.72 450777.36	758717.96 758718.30	N 32.237468 N 32.237307	W 103.630269 W 103.630269
Build 5°/100ft	10361.41 10400.00	75.00 76.93	179.67 179.67	10127.45 10136.81	563.41	-560.84	448.36	5.00	450739,93	758718.51	N 32.237204	W 103.630269
	10500.00	81.93	179.67	10155.15	661.69	-659.11	448.93	5.00	450641.67	758719.08	N 32.236934	W 103.630269
Landing Point	10600.00 10661.41	86,93 90,00	179.67 179.67	10164.86 10166.50	761.18 822.57	-758.60 -819.99	449.50 449.85	5.00 5.00	450542.17 450480.79	758719.65 758720.01	N 32.236661 N 32.236492	W 103.630269 W 103.630270
Landing	10700.00	90.00	179.67	10166.50	861.15	-858.57	450.08	0.00	450442.21	758720.23	N 32.236386	W 103.630270
	10800.00 10900.00	90,00 90,00	179.67 179.67	10166.50 10166.50	961.15 1061.15	-958.57 -1058.57	450.65 451.23	0.00 0.00	450342.22 450242.22	758720.80 758721.38	N 32.236111 N 32.235836	W 103.630270 W 103.630270
	11000.00	90.00	179.67	10166.50	1161.15	-1158.57	451.80	0.00	450142.23	758721.96	N 32.235561	W 103.630270
	11100.00 11200.00	90.00 90.00	179.67 179.67	10166.50 10166.50	1261.15 1361.15	-1258.57 -1358.57	452.38 452.96	0.00	450042.23 449942.24	758722.53 758723.11	N 32.235286 N 32.235012	W 103.630271 W 103.630271
	11300.00	90.00	179.67	10166.50	1461.15	-1458.56	453.53	0.00	449842.24	758723.68	N 32.234737	W 103.630271
	11400.00 11500.00	90.00 90.00	179.67 179.67	10166.50 10166.50	1561.15 1661.15	-1558,56 -1658,56	454.11 454.68	0.00 0.00	449742.25 449642.25	758724.26 758724.84	N 32.234462 N 32.234187	W 103.630271 W 103.630272
	11600.00	90.00	179.67	10166.50	1761.15	-1758.56	455.26	0.00	449542.26	758725.41	N 32.233912	W 103.630272
	11700.00 11800.00	90.00 90.00	179.67 179.67	10166,50 10166,50	1861.15 1961.15	-1858.56 -1958.56	455.84 456,41	0.00 0.00	449442.27 449342.27	758725.99 758726.56	N 32.233637 N 32.233362	W 103.630272 W 103.630272
	11900.00	90.00	179.67	10166.50	2061.15	-2058.55	456.99	0.00	449242.28	758727.14	N 32.233087	W 103.630273
	12000.00	90.00	179.67	10166,50 10166,50	2161.15 2261.15	-2158.55 -2258.55	457.56 458.14	0.00 0.00	449142.28 449042.29	758727.72 758728.29	N 32.232813 N 32.232538	W 103.630273 W 103.630273
	12100.00 12200.00	90.00 90.00	179.67 179.67	10166.50	2361.15	-2358.55	458.71	0.00	448942.29	758728.87	N 32.232263	W 103.630273
NMNM0001917												
exit to NMNM0002889	12224.26	90.00	179.67	10166.50	2385.41	-2382.81	458.85	0.00	448918.03	758729.01	N 32.232196	W 103.630273
enter Lease												
Crossing	12300.00	90.00	179.67	10166.50	2461.15	-2458.55	459.29	0.00	448842.30	758729.44	N 32,231988	W 103.630274
	12400.00	90.00	179.67	10166.50	2561.15	-2558,55	459.87	0.00	448742.30	758730.02	N 32.231713	W 103.630274
	12500.00 12600.00	90.00 90.00	179.67 179.67	10166,50 10166,50	2661.15 2761.15	-2658.54 -2758.54	460.44 461.02	0.00 0.00	448642.31 448542.32	758730.59 758731.17	N 32.231438 N 32.231163	W 103.630274 W 103.630274
	12700.00	90.00	179.67	10166.50	2861.15	-2858.54	461.59	0.00	448442.32	758731.75	N 32,230889	W 103.630275
	12800.00	90.00 90.00	179.67 179.67	10166.50 10166.50	2961.15 3061.15	-2958.54 -3058.54	462.17 462.75	0.00 0.00	448342.33 448242.33	758732.32 758732.90	N 32.230614 N 32.230339	
	12900.00 13000.00	90.00	179.67	10166.50	3161.15	-3158.54	463.32	0.00	448142.34	758733.47	N 32.230064	W 103.630275
	13100.00	90.00	179.67	10166.50	3261.15	-3258.53	463.90	0.00	448042.34	758734.05	N 32.229789	
	13200.00 13300.00	90.00 90.00	179.67 179.67	10166.50 10166.50	3361.15 3461.15	-3358.53 -3458.53	464.47 465.05	0.00 0.00	447942.35 447842.35	758734.63 758735.20	N 32.229514 N 32.229239	
	13400.00	90.00	179.67	10166.50	3561.15	-3558.53	465.63	0.00	447742.36	758735.78	N 32.228964	W 103.630276
	13500.00 13600.00	90.00 90.00	179.67 179.67	10166.50 10166.50	3661.15 3761.15	-3658.53 -3758.53	466.20 466.78	0.00 0.00	447642.37 447542.37	758736.35 758736.93	N 32.228690 N 32.228415	W 103.630277 W 103.630277
	13700.00	90.00	179.67	10166.50	3861.15	-3858.52	467.35	0.00	447442.38	758737.51	N 32.228140	W 103,630277
	13800.00	90.00 90,00	179.67 179.67	10166.50 10166.50	3961.15 4061.15	-3958.52 -4058.52	467.93 468.51	0.00 0.00	447342.38 447242.39	758738.08 758738.66	N 32,227865 N 32,227590	
	13900.00 14000.00	90.00	179.67	10166.50	4161.15	-4058.52	469.08	0.00	447142.39	758739.23	N 32.227315	
	14100.00	90.00	179.67	10166.50	4261.15	-4258.52	469.66 470.23	0.00 0.00	447042.40 446942.40	758739.81 758740.38	N 32.227040 N 32.226766	
	14200.00 14300.00	90.00 90.00	179.67 179.67	10166.50 10166.50	4361.15 4461.15	-4358.52 -4458.51	470.81	0.00	446842.41	758740.96	N 32.226491	W 103.630279
	14400.00	90.00	179.67	10166.50	4561.15	-4558.51	471.38	0.00	446742.42	758741.54	N 32.226216	W 103.630279
	14500.00 14600.00	90.00 90.00	179.67 179.67	10166.50 10166.50	4661.15 4761.15	-4658.51 -4758.51	471.96 472.54	0.00 0.00	446642.42 446542.43	758742.11 758742.69	N 32.225941 N 32.225666	W 103.630279 W 103.630280
	14700.00	90.00	179.67	10166.50	4861.15	-4858.51	473.11	0.00	446442.43	758743.26	N 32.225391	W 103.630280
Section 12-13	14800.00	90.00	179.67	10166.50	4961.15	-4958.51	473.69	0.00	446342.44	758743.84	N 32.225116	W 103.630280
Line,												
NMNM0002889				10100 50	5029.98	-5027.33	474.08	0.00	446273.62	758744.24	N 32.224927	W 103.630280
	14020 00	00.00				-3021.33	4/4.00	0.00	770213.02	100144.24		
exit to	14868,83	90.00	179.67	10166.50								
exil to NMNM0553548 enter Lease	14868,83	90.00	179.67	10100.50								
exit to NMNM0553548			179.67	10166.50	5061.15	-5058.50	474.26	0.00	446242.44	758744.42	N 32.224842	
exil to NMNM0553548 enter Lease	14900.00 15000.00	90.00 90.00	179.67 179.67	10166.50 10166.50	5061.15 5161.15	-5058.50 -5158.50	474.84	0.00	446242.44 446142.45	758744.42 758744.99	N 32.224842 N 32.224567	W 103.630280 W 103.630281
exil to NMNM0553548 enter Lease	14900.00	90.00	179.67	10166.50	5061.15	-5058.50			446242.44	758744.42	N 32.224842	W 103.630280 W 103.630281 W 103.630281

...Dos Equis 12-13 Federal Com #48H\Cimarex Dos Equis 12-13 Federal Com #48H Rev1 kFc 05Aug22

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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 °)
	15400.00	90.00	179.67	10166.50	5561.15	-5558.50	477.14	0.00	445742.47	758747.30	N 32.223467	W 103.630282
	15500.00	90,00	179.67	10166.50	5661.15	-5658.49	477.72	0.00	445642.48	758747.87	N 32.223192	W 103.630282
	15600.00	90.00	179.67	10166.50	5761.15	-5758.49	478.30	0.00	445542.48	758748.45	N 32.222917	W 103.630282
	15700.00	90.00	179.67	10166.50	5861.15	-5858.49	478.87	0.00	445442.49	758749.02	N 32.222643	W 103.630282
	15800.00	90.00	179.67	10166.50	5961.15	-5958.49	479.45	0.00	445342.49	758749.60	N 32.222368	W 103.630283
	15900.00	90.00	179.67	10166.50	6061.15	-6058.49	480.02	0,00	445242.50	758750.17	N 32.222093	W 103.63028
	16000.00	90.00	179.67	10166.50	6161.15	-6158.49	480.60	0.00	445142.50	758750.75	N 32.221818	W 103.63028
	16100.00	90.00	179.67	10166.50	6261.15	-6258.48	481.18	0.00	445042.51	758751.33	N 32.221543	W 103.63028
	16200.00	90.00	179.67	10166.50	6361.15	-6358.48	481.75	0.00	444942.52	758751.90	N 32.221268	W 103.63028
	16300.00	90.00	179.67	10166.50	6461.15	-6458.48	482.33	0.00	444842.52	758752.48	N 32.220993	W 103.63028
	16400.00	90.00	179.67	10166.50	6561.15	-6558.48	482.90	0.00	444742.53 444642.53	758753.05 758753.63	N 32.220719 N 32.220444	W 103.63028 W 103.63028
	16500.00	90.00	179.67	10166.50	6661.15	-6658.48	483.48	0.00	444042.53	758754.21	N 32.220444	W 103.63028
	16600.00	90.00	179.67	10166.50	6761.15	-6758.48 -6858.47	484.05 484.63	0.00	444542.54	758754.21	N 32.219894	W 103.63028 W 103.63028
	16700.00	90.00	179.67	10166.50	6861.15				444442.54	758755.36	N 32.219694	W 103.63028
	16800.00	90.00	179.67	10166.50 10166.50	6961.15 7061.15	-6958.47 -7058.47	485.21 485.78	0.00	444342.55	758755.93	N 32.219344	W 103.63028
	16900.00	90.00 90.00	179.67	10166.50	7161.15	-7158.47	486.36	0.00	444242.55	758756.51	N 32.219069	W 103.63028
	17000.00		179.67	10166.50	7261.15	-7158.47	486.93	0.00	444142.50	758757.09	N 32.218794	W 103.63028
	17100.00	90.00 90.00	179.67 179.67	10166.50	7361.15	-7358.47	487.51	0.00	444042.57	758757.66	N 32.218520	W 103.63028
	17200.00			10166.50	7461.15	-7458.46	488.09	0.00	443842.58	758758.24	N 32.218245	W 103.63028
	17300.00 17400.00	90.00 90.00	179.67 179.67	10166.50	7561.15	-7558.46	488.66	0.00	443742.58	758758.61	N 32.217970	W 103.63028
	17500.00	90.00	179.67	10166.50	7661.15	-7658.46	489.24	0.00	443642.59	758759.39	N 32.217695	W 103.63028
MNM0553548	17500.00	50.00	115.07	10100.00	1001.10	-7000,40	400.24	0,00	440042.00	100700.00	IT OLLE IT OUD	11 100.00020
xit to VMNM0553642	17506.33	90.00	179.67	10166.50	7667.48	-7664.79	489.27	0.00	443636.26	758759.43	N 32.217678	W 103.63028
nter Lease	11000.00	30.00	113.07	10100.00	1001.10	1001.10	100.27	0.00	110000.20	/00/00/10		
Crossing												
n usan iy	17600.00	90,00	179.67	10166.50	7761.15	-7758.46	489.81	0.00	443542.59	758759.96	N 32.217420	W 103,63028
	17700.00	90.00	179.67	10166.50	7861.15	-7858.46	490.39	0,00	443442.60	758760.54	N 32.217145	W 103.63028
	17800.00	90.00	179.67	10166.50	7961,15	-7958.46	490.97	0.00	443342.60	758761.12	N 32.216870	W 103.63028
	17900.00	90.00	179.67	10166,50	8061.15	-8058.45	491.54	0.00	443242.61	758761,69	N 32.216596	W 103.63028
	18000.00	90,00	179.67	10168.50	8161.15	-8158.45	492.12	0.00	443142.62	758762.27	N 32,216321	W 103,6302
	18100.00	90.00	179.67	10166.50	8261.15	-8258.45	492.69	0.00	443042.62	758762.84	N 32.216046	W 103.63028
	18200.00	90,00	179,67	10166.50	8361.15	-8358.45	493.27	0.00	442942.63	758763.42	N 32.215771	W 103.63028
	18300.00	90.00	179.67	10166.50	8461.15	-8458.45	493.85	0.00	442842.63	758764.00	N 32.215496	W 103.63028
	18400.00	90,00	179.67	10166.50	8561.15	-8558.45	494.42	0.00	442742.64	758764.57	N 32.215221	W 103.63028
	18500.00	90.00	179.67	10166.50	8661,15	-8658.44	495.00	0.00	442642.64	758765.15	N 32.214946	W 103.63028
	18600.00	90.00	179.67	10166.50	8761.15	-8758.44	495.57	0.00	442542.65	758765.72	N 32.214672	W 103,63029
	18700.00	90.00	179.67	10166.50	8861.15	-8858.44	496.15	0.00	442442.65	758766.30	N 32.214397	W 103.63029
	18800.00	90.00	179.67	10166.50	8961.15	-8958.44	496.72	0.00	442342.66	758766.88	N 32.214122	W 103.63029
	18900.00	90.00	179.67	10166.50	9061,15	-9058.44	497.30	0.00	442242.67	758767.45	N 32.213847	W 103.6302
	19000.00	90.00	179.67	10166.50	9161.15	-9158.44	497.88	0.00	442142.67	758768.03	N 32.213572	W 103.63029
	19100.00	90.00	179.67	10166.50	9261.15	-9258.43	498.45	0.00	442042.68	758768.60	N 32.213297	W 103.6302
	19200.00	90.00	179.67	10166.50	9361.15	-9358.43	499.03	0.00	441942.68	758769.18	N 32.213022	W 103.6302
	19300.00	90.00	179.67	10166.50	9461.15	-9458.43	499.60	0.00	441842.69	758769.75	N 32.212747	W 103.6302
	19400.00	90.00	179.67	10166.50	9561.15	-9558.43	500.18	0.00	441742.69	758770.33	N 32.212473	W 103.6302
	19500.00	90.00	179.67	10166.50	9661.15	-9658.43	500.76	0.00	441642.70	758770.91	N 32.212198	W 103.6302
	19600.00	90.00	179.67	10166.50	9761.15	-9758.43	501.33	0.00	441542.70	758771.48	N 32.211923	W 103,6302
	19700.00	90.00	179.67	10166.50	9861.15	-9858.42	501.91	0.00	441442.71	758772.08	N 32.211648	W 103.6302
	19800.00	90.00	179.67	10166.50	9961.15	-9958.42	502.48	0,00	441342.72	758772.63	N 32.211373	W 103.6302
	19900.00	90.00	179.67	10166.50	10061.15	-10058.42	503.06	0.00	441242.72	758773.21	N 32.211098	W 103.63029
	20000.00	90.00	179.67	10166.50	10161.15	-10158.42	503.64	0.00	441142.73	758773.79	N 32.210823	W 103,63029
Cimarex Dos Equis 12-13												
Equis 12-13 Federal Com												
48H - PBHL	20047.56	90.00	179.67	10166.50	10208.71	-10205.98	503.91	0.00	441095.17	758774.06	N 32.210693	W 103.63029
[100' FSL, 2025' FWL]												

Survey Type:	Def Plan

Survey Error Model: ISCWSA Rev 3 *** 3-D 95.000% Confidence 2.7955 sigma Survey Program:

Description	v	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
646946		1	0.000	26.000	1/100.000	17.500	13.375		A001Mb_MWD-Depth Only	Dos Equis 12-13 Federal Com #48H / Cimarex Dos Equis 12-13
		1	26.000	20047.561	1/100.000	17.500	13.375		A001Mb_MWD	Dos Equis 12-13 Federal Com #48H / Cimarex Dos Equis 12-13



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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	
	NMNM001917 Section 12, T.24 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Dos Equis 12-13 Fed Com 48H
SURFACE HOLE FOOTAGE:	255'/N & 1580'/W
BOTTOM HOLE FOOTAGE	100'/S & 2025'/W

COA

H2S	• Yes	🗘 No	
Potash	None	C Secretary	C R-111-P
Cave/Karst Potential	💽 Low	C Medium	C High
Cave/Karst Potential	Critical		
Variance	C None	• Flex Hose	C Other
Wellhead	C 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** 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 16%. 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 $\underline{8}$

<u>hours</u> 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.
- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the tail cement slurry due to cave/karst.

- 3. The minimum required fill of cement behind the 7 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the **4-1/2** inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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) 689-5981

- 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24 hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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 test.

- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including 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.

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ZS113022

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

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

CONDITIONS

	OGRID:	
CIMAREX ENERGY CO.	215099	
	Action Number:	
Midland, TX 79706	321097	
	Action Type:	
	[C-103] NOI Change of Plans (C-103A)	
CONDITIONS		

Created Condition Condition By Date None 5/3/2024 pkautz

CONDITIONS

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Action 321097