Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM	APPROVED
OMB N	No. 1004-0137
Expires: 0	October 31, 202

5. Lease Serial No	Ì
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6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON W Do not use this form for proposals to drill or to abandoned well. Use Form 3160-3 (APD) for suc	re-enter an
	7 If Unit of CA/A argament, Name and/or No
SUBMIT IN TRIPLICATE - Other instructions on page	2
1. Type of Well	8. Well Name and No.
Oil Well Gas Well Other	48H
2. Name of Operator	9. API Well No.
3a. Address 3b. Phone No. (nclude area code) 10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	11. Country or Parish, State
12. CHECK THE APPROPRIATE BOX(ES) TO INC	CATE NATURE OF NOTICE, REPORT OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION
Notice of Intent Acidize Deeper Alter Casing Hydra	Production (Start/Resume) Water Shut-Off llic Fracturing Reclamation Well Integrity
Subsequent Report	onstruction Recomplete Other and Abandon Temporarily Abandon
Final Abandonment Notice Convert to Injection Plug I	ack Water Disposal
completed. Final Abandonment Notices must be filed only after all requirements is ready for final inspection.)	letion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been including reclamation, have been completed and the operator has detennined that the site
4. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	
	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 ertify that the applicant holds legal or equitable title to those rights in the subject leavily 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 an ny false, fictitious or fraudulent statements or representations as to any matter within	person knowingly and willfully to make to any department or agency of the United States its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

(Form 3160-5, page 2)

Additional Information

Additional Remarks

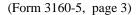
FROM:WC-025;G-08;S243213C;Wolfcamp (Pool Code 98309) TO: Triple X; Bone Spring, West (96674)

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 / 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)
PPP: NENW / 255 FNL / 1386 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238753 / LONG: -103.632334 (TVD: 12235 feet, MD: 12318 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

Phone: (273) 393-6161 Fax: (275) 393-0720 Distriet II 811 S. First St., Arnesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 Distriet III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

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

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

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

AMENDED REPORT

Released to Imaging: 12/29/2022 10:24:43 AM

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-501	Triple X: Bone Spring, West				
Property Code 326056	⁵ Property Name DOS EQUIS 12-13 FEDERAL COM				
⁷ ogrid №. 215099	*Operator Name CIMAREX ENERGY CO.				

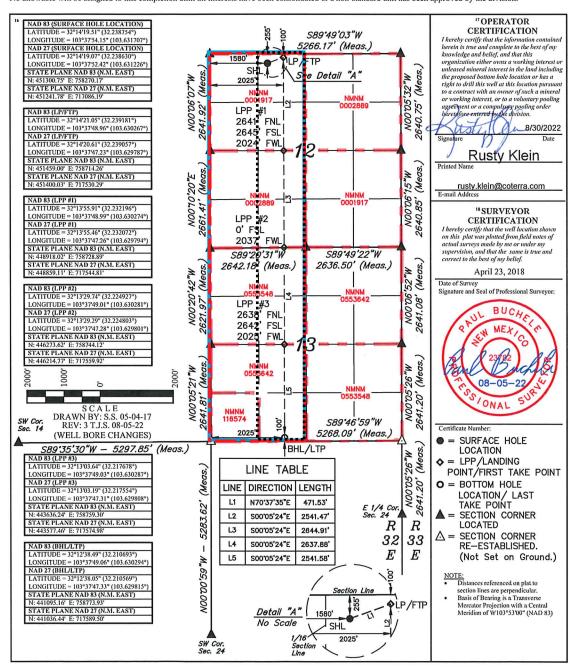
"Surface Location

UL or lot no.	Section 12	Township 24S	Range 32E	Lot Idn	Feet from the 255	North/South line NORTH	Feet from the 1580	East/West line WEST	County LEA
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"Bottom Hole Location If Different From Surface

UL or lot no. N	Section 13	Township 24S	Range 32E	Lot Idn	Feet from the 100	North/South line SOUTH	Feet from the 2025	East/West line WEST	County LEA
12 Dedicated Act	cres 13 Joint or Infill 14 Consolidation 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 MD at TD 20,048

Pilot Hole TD N/A

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	вт&с	1.80	2.37	62.08
6	8611	20048	10167	4-1/2"	11.60	P-110	вт&с	1.59	2.25	20.33
					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

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

	Y or N
ls 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
ls 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
ls well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
ls well within the designated 4 string boundary.	N
s 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
ls well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
ls 2nd string set 100' to 600' below the base of salt?	N
ls 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
ls well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N
Is AC Report included?	Υ

3. Cementing Program

Casing	# Sks	Wt. lb/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.

4. Pressure Control Equipment

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	X	
:			Other		
8 3/4	13 5/8	3M	Annular	х	
			Blind Ram		
			Pipe Ram		3M
			Double Ram	Х	
			Other		
6	13 5/8	5M	Annular	Х	
			Blind Ram		
			Pipe Ram	Х	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.

		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.
ľ	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?

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

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

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

_	The second secon	
1,42	hat will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
1 00	nat will be used to monitor the loss or gain or huld?	r v 1/r ason/ visual iviolitoring
- 1		1

6. Logging and Testing Procedures

Logg	ing, 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.
Х	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned Interval	
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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
Х	H2S plan is attached

8. Other Facets of Operation

9. Wellhead

Received by OCD: 12/6/2022 6:57:31 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.Other 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.

Schlumberger

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



(Def Plan)

Report Date: Client: Field:

August 05, 2022 - 05:48 PM Cimarex Energy NM Lea County (NAD 83)

Structure / Slot; Cimarex Dos Equis 12-13 Federal Com #48H / 48H

Dos Equis 12-13 Federal Com #48H Well: Borehole: Dos Equis 12-13 Federal Com #48H

UWI / API#: Unknown / Unknown Cimarex Dos Equis 12-13 Federal Corn #48H Rev1 kFc 05Aug22 Survey Name:

September 24, 2019 110.000 ° / 10563.906 ft / 6.360 / 1.039 Survey Date:

Tort / AHD / DDI / ERD Ratio: Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet

Location Lat / Long: N 32* 14' 19.51367", W 103* 37' 54.14509" N 451300.750 flUS, E 758270.170 flUS Location Grid N/E Y/X:

0.3743 ° 0.99996299 CRS Grid Convergence Angle: Grid Scale Factor: Version / Patch: 2.10.832.2

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: Local Coord Referenced To:

Minimum Curvature / Lubinski 179.670 * (Grid North) 0.000 ft, 0.000 ft RKR

3634.200 ft above MSL 3608.200 ft above MSL 6,325 998.4381mgn (9.80665 Based)

47573.131 nT 59.831 ° August 05, 2022 HDGM 2022 Grid North 0.3743 °

GARM

30.025-50120

North Reference: Grid Convergence Used: Total Corr Mag North->Grid 5.9512 ° Well Head

	(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 [255' FNL, 1580' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	451300.75	758270.17	N 32.238754	W 103.631707
1200 LAAF!	100.00	0,00	102.49	100.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
	200,00	0.00	102.49	200.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754 N 32.238754	W 103.631707
	300.00 400.00	0.00 0.00	102.49 102.49	300.00 400.00	0.00 0.00	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
	500.00	0.00	102.49	500,00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
	600.00	0.00	102.49	600.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
	700.00	0.00	102.49	700.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
	800,00	00,0	102.49	800.00 900.00	0.00 0.00	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
	900.00 1000.00	0.00 0.00	102,49 102,49	1000.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
	1100.00	0.00	102.49	1100.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
Rustler	1186.50	0.00	102.49	1186.50	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
	1200,00	0.00	102,49	1200.00	0.00	0.00	0.00	0.00	451300.75	758270.17 758270.17	N 32.238754 N 32.238754	W 103.631707
	1300.00 1400.00	00.0 00.0	102.49 102.49	1300.00 1400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	451300.75 451300.75	758270.17	N 32.238754	W 103.631707 W 103.631707
	1500.00	0.00	102.49	1500.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
Salado (Top Salt)	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
OBI()	1600.00	0.00	102.49	1600.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103,631707
	1700.00	0.00	102.49	1700.00	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	0.00 0.00	102.49 102.49	1800.00 1900.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	451300.75 451300.75	758270.17	N 32.238754 N 32.238754	W 103.631707
	1900.00 2000.00	0.00	102.49	2000.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103,631707
	2100.00	0.00	102.49	2100.00	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32.238754	W 103.631707
Nudge, Build 2°/100ft	2101.50	0,00	102.49	2101.50	0.00	0.00	0.00	0.00	451300.75	758270.17	N 32,238754	W 103.631707
	2200.00	1.97	102.49	2199.98	0.38	-0.37	1.65	2.00	451300.38	758271.82	N 32.238753	W 103.631702
	2300.00	3.97	102.49	2299.84	1.53	-1.49 -3.36	6.71	2.00 2.00	451299.26 451297.39	758276.88 758285.34	N 32.238750 N 32.238744	W 103,631685 W 103,631658
	2400.00 2500.00	5.97 7.97	102.49 102.49	2399.46 2498.72	3,45 6.14	-5.99	15.17 27.02	2.00	451297.39	758297.19	N 32.238737	W 103.631620
	2600.00	9.97	102,49	2597.49	9.60	-9.36	42.24	2.00	451291.39	758312.41	N 32.238727	W 103.631571
Hold	2601.51	10.00	102.49	2598.97	9,66	-9.41	42.49	2.00	451291.34	758312.66	N 32.238727	W 103.631570
	2700.00	10.00	102.49	2695.97	13,46	-13.11	59.19	0.00	451287.64	758329.36	N 32.238717	W 103.631516
	2800.00	10.00	102.49	2794.45	17.31	-16.87	76.15	0.00 0.00	451283.88 451280.12	758346.31 758363.27	N 32.238706 N 32.238695	W 103.631461 W 103.631406
	2900.00 3000.00	10.00 10.00	102.49 102.49	2892.93 2991.41	21.16 25.02	-20.63 -24.38	93.10 110.05	0.00	451276.37	758380.22	N 32.238685	W 103.631352
	3100.00	10.00	102.49	3089.89	28.87	-28.14	127.01	0.00	451272.61	758397.17	N 32,238674	W 103.631297
	3200.00	10.00	102,49	3188.37	32.73	-31.90	143.96	0.00	451268.85	758414.13	N 32.238664	W 103.631242
	3300,00	10.00	102.49	3286,85	36.58	-35.65	160.92	0.00	451265.10	758431.08	N 32.238653	W 103.631187
	3400.00	10.00	102.49	3385,33 3483.81	40.43 44.29	-39.41 -43.17	177.87 194.82	0.00 0.00	451261.34 451257.59	758448.03 758464.99	N 32,238642 N 32,238632	W 103.631133 W 103.631078
	3500.00 3600.00	10.00 10.00	102.49 102.49	3582.30	48.14	-46,92	211.78	0.00	451253,83	758481.94	N 32.238621	W 103.631023
	3700.00	10.00	102.49	3680.78	51.99	-50.68	228.73	0.00	451250.07	758498.89	N 32,238610	W 103.630968
	3800.00	10.00	102.49	3779.26	55,85	-54,43	245.69	0.00	451246.32	758515.85	N 32.238600	W 103.630914
	3900.00	10.00	102.49	3877.74	59.70	-58.19	262.64 279.59	0.00 0.00	451242,56 451238,81	758532.80 758549.75	N 32.238589	W 103.630859 W 103.630804
	4000.00 4100.00	10.00 10.00	102.49 102.49	3976.22 4074.70	63.56 67.41	-61.95 -65.70	279.59 296.55	0.00	451235.05	758566,71	N 32,238579 N 32,238568	W 103.630749
	4200.00	10.00	102.49	4173.18	71,26	-69.46	313,50	0.00	451231.29	758583.66	N 32.238557	W 103.630695
	4300.00	10.00	102.49	4271.66	75.12	-73.22	330.46	0.00	451227.54	758600,61	N 32.238547	W 103.630640
	4400.00	10.00	102.49	4370.14	78.97	-76.97	347.41	0.00	451223.78	758617.57	N 32.238536	W 103.630585
	4500.00	10.00	102.49	4468.62	82.83	-80.73 -84.49	364.36 381.32	0.00 0.00	451220.02 451216.27	758634.52 758651.47	N 32.238525 N 32.238515	W 103.630530 W 103.630476
Base fo Salt	4600.00 4685.70	10.00 10.00	102.49 102.49	4567.10 4651,50	86.68 89.98	-84.49 -87.70	395.85	0.00	451213.05	758666,00	N 32.238506	W 103.630429
Dase IO Sak	4700.00	10.00	102.49	4665.58	90.53	-88.24	398.27	0.00	451212.51	758668.43	N 32.238504	W 103,630421
Drop 2°/100ft	4729.10	10.00	102.49	4694.25	91.66	-89.34	403.21	0.00	451211.42	758673.36	N 32.238501	W 103,630405
	4800.00	8.58	102.49	4764.21	94.20 97.12	-91.81 -94.67	414.38 427.26	2.00 2.00	451208.94 451206.09	758684.54 758697.42	N 32.238494 N 32.238486	W 103.630369 W 103.630327
D. II O	4900.00 4985.60	6.58 <i>4.8</i> 7	102.49 102.49	4863,33 4948,50	97.12 99.02	-94.67 -96.51	427.26 435.60	2.00	451204.24	758705.75	N 32.238481	W 103.630327
Bell Canyon	5000.00	4.58	102.49	4962.85	99.28	-96.77	436.76	2.00	451203.98	758706,91	N 32.238480	W 103.630297
	5100.00	2.58	102.49	5062.65	100.67	-98.12	442.86	2.00	451202,63	758713.01	N 32.238476	W 103.630277
	5200.00	0.58	102.49	5162.61	101.28	-98.72	445.56	2,00	451202.04	758715.71	N 32.238474	W 103.630268
Hold	5229.11	0.00	102.49	5191.72	101.32	-98.75	445.70	2.00	451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103.630268
	5300.00 5400.00	0.00 0.00	102.49 102.49	5262.61 5362.61	101.32 101.32	-98.75 -98.75	445.70 445.70	0.00 0.00	451202.00 451202.00	758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
	5500.00	0.00	102.49	5462.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103,630268
	5600,00	0.00	102.49	5562,61	101.32	-98.75	445.70	0.00	451202,00	758715.85	N 32.238474	W 103.630268
	5700.00	0.00	102.49	5662.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	
	5800.00	0.00	102.49	5762.61	101.32	-98.75	445.70	0.00	451202.00 451202.00	758715.85 758715.85	N 32.238474 N 32.238474	
Chama Carrier	5900.00 5912.89	0.00 0.00	102.49 102.49	5862,61 5875.50	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
Cherry Canyon	6000.00	0.00	102.49	5962.61	101,32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	6100.00	0,00	102.49	6062.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	6200.00	0.00	102.49	6162.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	
	6300.00 6400.00	0.00 0.00	102.49	6262.61	101.32	-98.75	445.70	0.00 0.00	451202.00	758715,85 758715.85	N 32.238474 N 32.238474	
			102.49	6362,61	101.32	-98.75	445.70	0.00	451202.00	100110.00	N 32,2304/4	VV 103.030200

Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
Comments	(ft) 6600,00	0.00	(°) 102.49	(ft) 6562,61	(ft) 101.32	-98,75	(ft) 445.70	(°/100ft) 0.00	(ftUS) 451202.00	(ftUS) 758715.85	(N/S °) N 32.238474	(E/W °) W 103.630268
	6700.00	0.00	102.49	6662.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	6800.00	0.00	102.49	6762.61	101.32	-98.75	445.70	0.00	451202.00	758715.85		W 103.630268
	6900.00 7000.00	0.00 0.00	102.49 102.49	6862.61 6962.61	101.32 101.32	-98,75 -98,75	445.70 445.70	0.00 0.00	451202.00 451202.00	758715.85 758715.85		W 103.630268 W 103.630268
	7100.00	0.00	102.49	7062.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	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	W 103,630268
Brushy Convon	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
Brushy Canyon	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	0.00	102.49	7462.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	7600.00	0.00	102.49	7562.61	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 7800.00	0.00 0.00	102.49 102.49	7662.61 7762.61	101.32 101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	7900.00	0.00	102,49	7862.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	8000.00	0.00	102.49	7962.61	101.32	-98.75	445.70	0.00	451202.00	758715.85 758715.85	N 32.238474 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	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	0.00	102.49	8362,61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	8500.00 8600.00	00.0 00.0	102.49 102.49	8462.61 8562.61	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
	8700.00	0.00	102.49	8662.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	8800,00	0.00	102.49	8762.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	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 N 32.238474	W 103.630268
	8900.00 9000.00	0.00 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
	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	451202.00	758715.85	N 32.238474	W 103,630268
	9300.00	0.00	102.49	9262,61	101.32	-98.75	445.70	0.00 0.00	451202.00	758715.85 758715.85	N 32.238474 N 32.238474	W 103.630268 W 103.630268
Avalon	9321.89 9400.00	0.00 0.00	102.49 102.49	9284.50 9362.61	<i>101.</i> 32 101.32	-98.75 -98.75	445.70 445.70	0.00	451202.00 451202.00	758715.85	N 32.238474	W 103.630268
	9500.00	0.00	102.49	9462.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
	9600.00	0.00	102.49	9562.61	101.32	-98.75	445.70	0.00	451202.00	758715.85	N 32.238474	W 103.630268
KOP, Build 10°/100ft	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
10 / 10011	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	28.86	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	10000.00	38.86										
Sand	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
	10100.00	48.86	179.67	10005.51	297.31	-294.74	446.83	10.00	451006.02	758716.98	N 32,237936	W 103,630268
	10200.00 10300.00	58,86 68.86	179.67 179.67	10064.41 10108.41	377.97 467.62	-375.40 -465.05	447.29 447.81	10.00 10.00	450925.37 450835.72	758717.45 758717.96	N 32,237714 N 32,237468	W 103,630268 W 103,630269
Build 5°/100ft	10361.41	75.00	179.67	10127.45	525.98	-523.41	448.15	10.00	450777.36	758718.30	N 32.237307	W 103.630269
	10400.00	76.93	179.67	10136.81	563,41	-560,84	448.36	5.00	450739,93	758718.51	N 32,237204	W 103,630269
	10500.00	81.93 86.93	179.67 179.67	10155.15 10164.86	661.69 761.18	-659.11 -758.60	448.93 449.50	5.00 5.00	450641.67 450542.17	758719.08 758719.65	N 32.236934 N 32.236661	W 103.630269 W 103.630269
Landing Point	10600.00 10661.41	90.00	179.67	10166,50	822.57	-819.99	449.85	5.00	450480.79	758720.01	N 32.236492	W 103.630270
Editoring 1 Ont	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	90,00	179.67	10166.50	961.15	-958.57	450.65	0.00	450342.22	758720.80	N 32.236111	W 103.630270
	10900.00 11000.00	90.00 90.00	179.67 179.67	10166.50 10166.50	1061.15 1161.15	-1058.57 -1158.57	451.23 451.80	0.00 0.00	450242.22 450142.23	758721.38 758721.96	N 32.235836 N 32.235561	W 103.630270 W 103.630270
	11100.00	90.00	179.67	10166.50	1261.15	-1258.57	452.38	0.00	450042.23	758722.53	N 32.235286	W 103,630271
	11200.00	90.00	179.67	10166.50	1361.15	-1358.57	452.96	0.00	449942.24	758723.11	N 32.235012	W 103,630271
	11300.00	90.00	179.67 179.67	10166.50 10166.50	1461.15 1561.15	-1458.56 -1558.56	453.53 454.11	0.00 0.00	449842.24 449742.25	758723.68 758724.26	N 32.234737 N 32.234462	W 103.630271 W 103.630271
	11400.00 11500.00	90.00 90.00	179.67	10166.50	1661,15	-1658.56	454.68	0.00	449642.25	758724.84	N 32.234187	W 103.630277
	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	90.00	179.67	10166.50	1861.15	-1858.56	455.84	0.00	449442.27	758725.99	N 32.233637	W 103.630272
	11800,00 11900,00	90.00 90.00	179.67 179.67	10166.50 10166.50	1961.15 2061.15	-1958.56 -2058.55	456,41 456,99	0.00	449342.27 449242,28	758726.56 758727.14	N 32.233362 N 32.233087	W 103,630272 W 103,630273
	12000.00	90.00	179.67	10166,50	2161.15	-2158.55	457.56	0.00	449142.28	758727.72	N 32.232813	W 103.630273
	12100.00	90.00	179.67	10166.50	2261.15	-2258.55	458.14	0.00	449042.29	758728.29	N 32.232538	W 103.630273
***************************************	12200,00	90.00	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	90.00	179.67	10166.50	2661.15	-2658.54	460.44	0.00	448642.31	758730.59	N 32.231438	W 103.630274
	12600.00	90.00	179.67	10166.50	2761.15	-2758.54	461.02	00,0 00.0	448542.32 448442.32	758731.17 758731.75	N 32.231163 N 32.230889	W 103.630274 W 103.630275
	12700.00 12800.00	90.00 90.00	179.67 179.67	10166.50 10166.50	2861.15 2961.15	-2858.54 -2958.54	461.59 462.17	0.00	448342.33	758732.32	N 32.230609 N 32.230614	W 103.630275
	12900.00	90.00	179.67	10166,50	3061.15	-3058.54	462.75	0.00	448242.33	758732.90	N 32.230339	W 103,630275
	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 13200.00	90.00 90.00	179.67 179.67	10166.50 10166.50	3261.15 3361.15	-3258.53 -3358.53	463.90 464.47	0.00 0.00	448042.34 447942.35	758734.05 758734.63	N 32.229789 N 32.229514	W 103.630276 W 103.630276
	13300.00	90.00	179.67	10166.50	3461.15	-3458.53	465.05	0.00	447842.35	758735.20	N 32,229239	W 103.630276
	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	90.00	179.67	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
	13600.00 13700.00	90.00 90.00	179.67 179.67	10166.50 10166.50	3761.15 3861.15	-3758.53 -3858.52	465.78 467.35	0.00	447442.38	758736.93 758737.51	N 32.228415 N 32.228140	W 103,630277
	13800.00	90.00	179.67	10166.50	3961.15	-3958.52	467.93	0.00	447342,38	758738.08	N 32,227865	W 103,630277
	13900.00	90.00	179.67	10166.50	4061.15	-4058.52	468.51	0.00	447242.39	758738.66	N 32,227590	W 103.630278
	14000.00 14100.00	90.00 90.00	179.67 179.67	10166,50 10166,50	4161.15 4261.15	-4158.52 -4258.52	469.08 469.66	0.00 0.00	447142.39 447042.40	758739.23 758739.81	N 32.227315 N 32.227040	W 103.630278 W 103.630278
	14100.00	90.00	179.67	10166.50	4361.15	-4258.52 -4358.52	470.23	0.00	446942.40	758740.38	N 32.226766	W 103.630278
	14300.00	90.00	179.67	10166.50	4461.15	-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	471.38 471.88	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
	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
Section 12-13												
Line, NMNM0002889												
exit to	14868.83	90.00	179.67	10166.50	5029.98	-5027.33	474.08	0.00	446273.62	758744.24	N 32,224927	W 103.630280
NMNM0553548												
enter Lease												
Crossing	14900.00	90.00	179.67	10166.50	5061.15	-5058,50	474.26	0,00	446242.44	758744.42	N 32.224842	W 103.630280
	15000.00	90.00	179.67	10166.50	5161.15	-5158.50	474.84	0.00	446142.45	758744.99	N 32.224567	W 103.630281
	15100.00	90.00	179.67	10166.50	5261,15	-5258.50	475.42	0.00	446042.45	758745.57	N 32.224292	W 103.630281
	15200.00 15300.00	90.00 90.00	179.67 179.67	10166.50 10166.50	5361.15 5461.15	-5358,50 -5458.50	475.99 476.57	0.00 0.00	445942.46 445842.47	758746.14 758746.72	N 32,224017 N 32,223742	W 103.630281 W 103.630281
	, 550,500	55.00		. 3 . 5 5 . 5 5	2.00	2.00.00		2,00		1011 -		

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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	10168,50	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	-605B,49	480.02	0,00	445242.50	758750.17	N 32.222093	W 103,630283
	16000.00	90.00	179.67	10166.50	6161.15	-6158.49	480.60	0.00	445142.50	758750.75	N 32.221818	W 103.630283
	16100.00	90.00	179.67	10166.50	6261.15	-6258.48	481.18	0.00	445042.51	758751.33	N 32.221543	W 103.630283
	16200.00	90.00	179.67	10166.50	6361.15	-6358.48	481.75	0,00	444942.52	758751.90	N 32,221268	W 103,630284
	16300.00	90,00	179.67	10166.50	6461.15	-6458.48	482.33	0.00	444842.52	758752.48	N 32.220993	W 103,630284
	16400.00	90.00	179.67	10166.50	6561.15	-6558.48	482.90	0.00	444742.53	758753.05	N 32.220719	W 103,630284
	16500.00	90.00	179.67	10166,50	6661,15	-6658.48	483.48	0.00	444642.53	758753.63	N 32,220444	W 103,630284
	16600.00	90.00	179.67	10166.50	6761.15	-6758.48	484.05	0.00	444542.54	758754.21	N 32.220169	W 103.63028
	16700.00	90.00	179.67	10166,50	6861.15	-6858.47	484.63	0.00	444442.54	758754.78	N 32.219894	W 103.63028
	16800.00	90.00	179.67	10166.50	6961.15	-6958.47	485.21	0.00	444342.55	758755.36	N 32.219619	W 103,63028
	16900.00	90.00	179.67	10166.50	7061.15	-7058.47	485.78	0.00	444242.55	758755.93	N 32.219344	W 103,63028
		90.00		10166.50	7161.15	-7158.47	486.36	0.00	444142.56	758756.51	N 32.219069	W 103.63028
	17000.00		179.67		7261.15	-7258.47	486.93	0.00	444042.57	758757.09	N 32.218794	W 103.63028
	17100.00	90.00	179.67	10166.50		-7258.47 -7358.47		0.00	443942.57	758757.66	N 32.218520	W 103.63028
	17200.00	90.00	179.67	10166.50	7361.15		487.51			758758.24	N 32.218245	W 103,63028
	17300.00	90.00	179.67	10166.50	7461.15	-7458.46	488.09	0.00	443842.58	758758.81	N 32.217970	W 103.63028
	17400.00	90.00	179.67	10166.50	7561.15	-7558.46	488.66	0,00	443742.58	758759.39	N 32.217970 N 32.217695	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	VV 103.63028
VMNM0553548												
xit to											1100 017070	144 400 00000
IMNM0553642	17506.33	90.00	179.67	10166.50	7667.48	-7664.79	489.27	0.00	443636.26	758759.43	N 32.217678	W 103.630287
nter Lease												
Crossing												
	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 32.216598	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 103,63028
	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 103.63029
	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 103.63029
	19200.00	90.00	179.67	10166,50	9361.15	-9358.43	499.03	0.00	441942.68	758769.18	N 32.213022	
	19300.00	90.00	179.67	10166,50	9461.15	-9458.43	499.60	0.00	441842.69	758769.75	N 32.212747	W 103.63029
	19400.00	90.00	179.67	10166.50	9561.15	-9558.43	500.18	0.00	441742.69	758770.33	N 32.212473	W 103.63029
	19500.00	90.00	179.67	10166.50	9661.15	-9658.43	500.76	0.00	441642.70	758770.91	N 32.212198	W 103.63029
				10166.50	9761.15	-9758.43	501.33	0.00	441542.70	758771.48	N 32.211923	W 103,63029
	19600.00	90.00	179.67	10166.50	9861.15	-9756.43 -9858.42	501.91	0.00	441442.71	758772.08	N 32.211648	
	19700.00	90.00	179.67					0.00		758772.63	N 32.211373	W 103.63029
	19800.00	90.00	179.67	10166.50	9961,15	-9958.42	502.48		441342.72		N 32.211373 N 32.211098	
	19900.00	90.00	179.67	10166.50	10061.15	-10058.42	503.06	0.00	441242.72	758773.21		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												
Federal Com	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
48H - PBHL	200,,,00				,							
(100' FSL, 2025'												

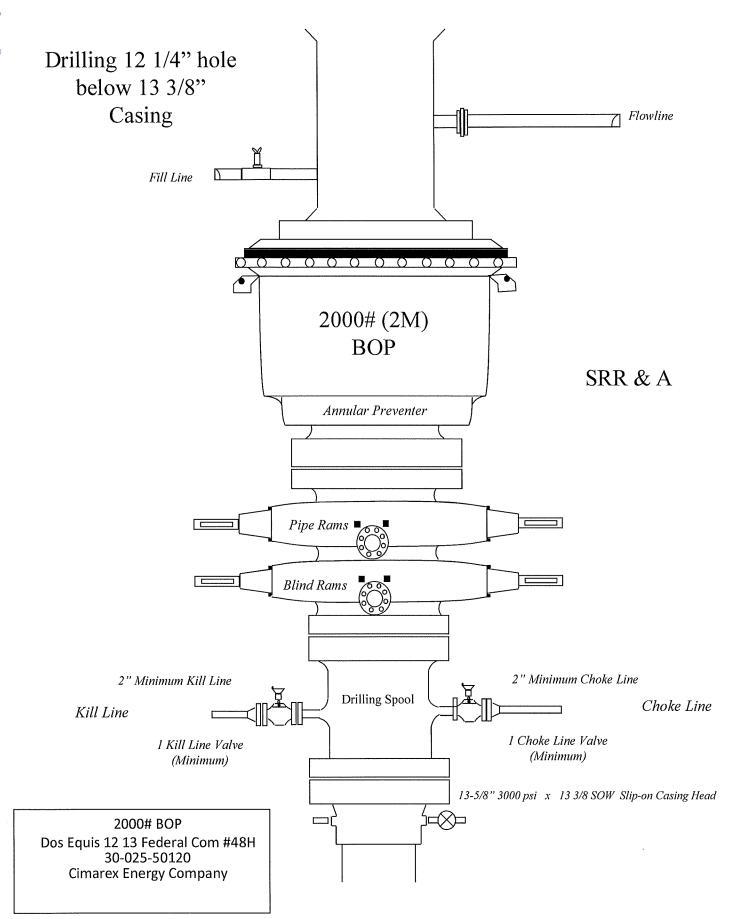
Survey Type:

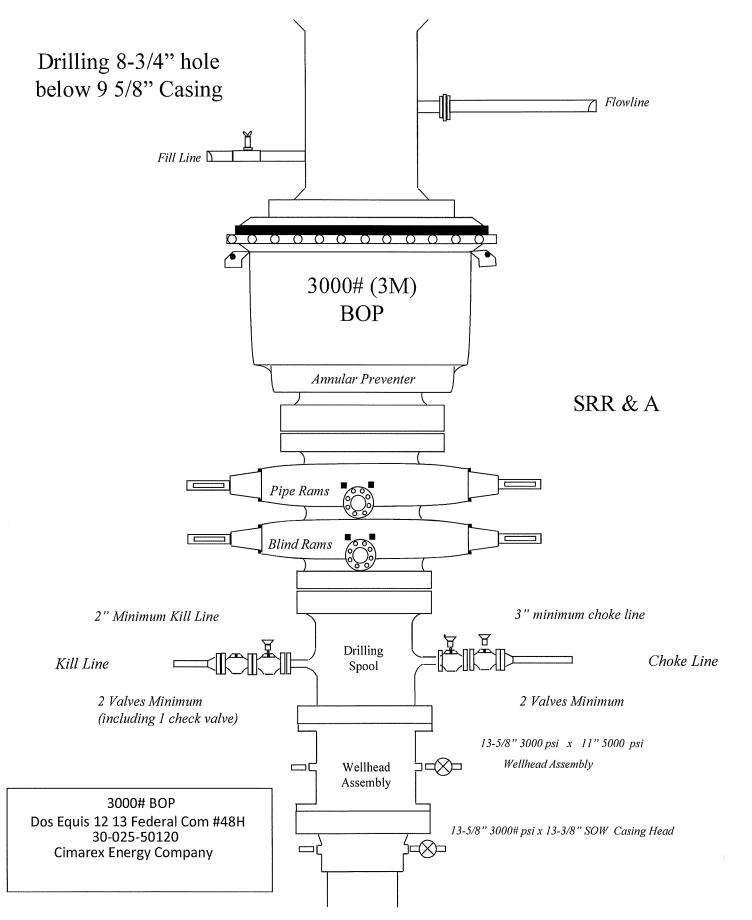
Def Plan

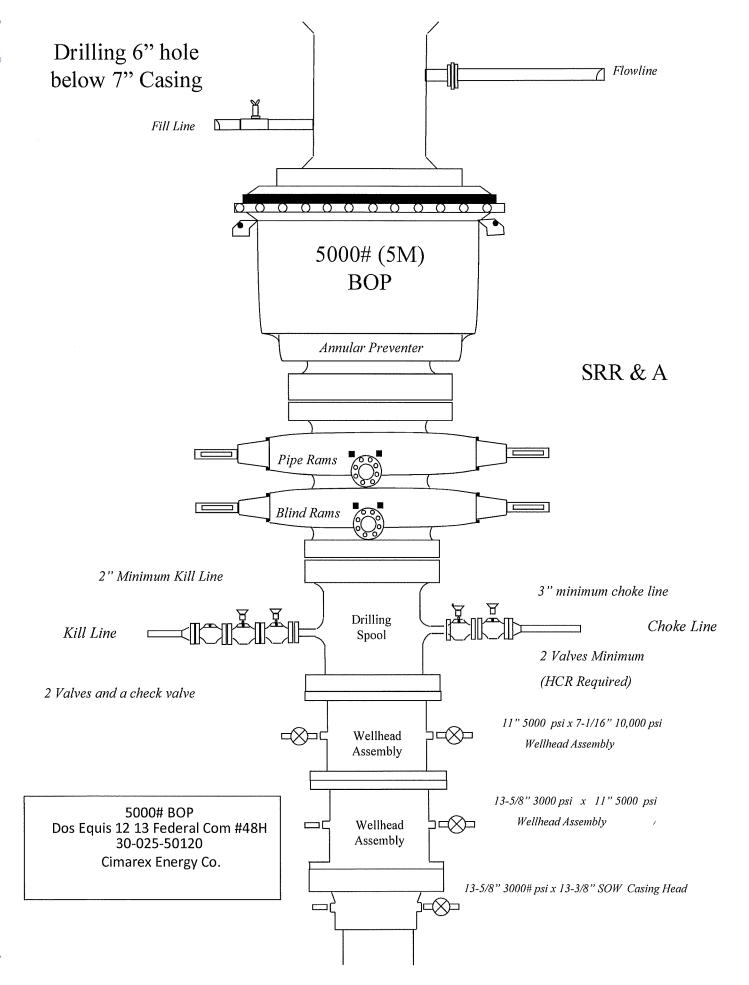
Survey Error Model: Survey Program:

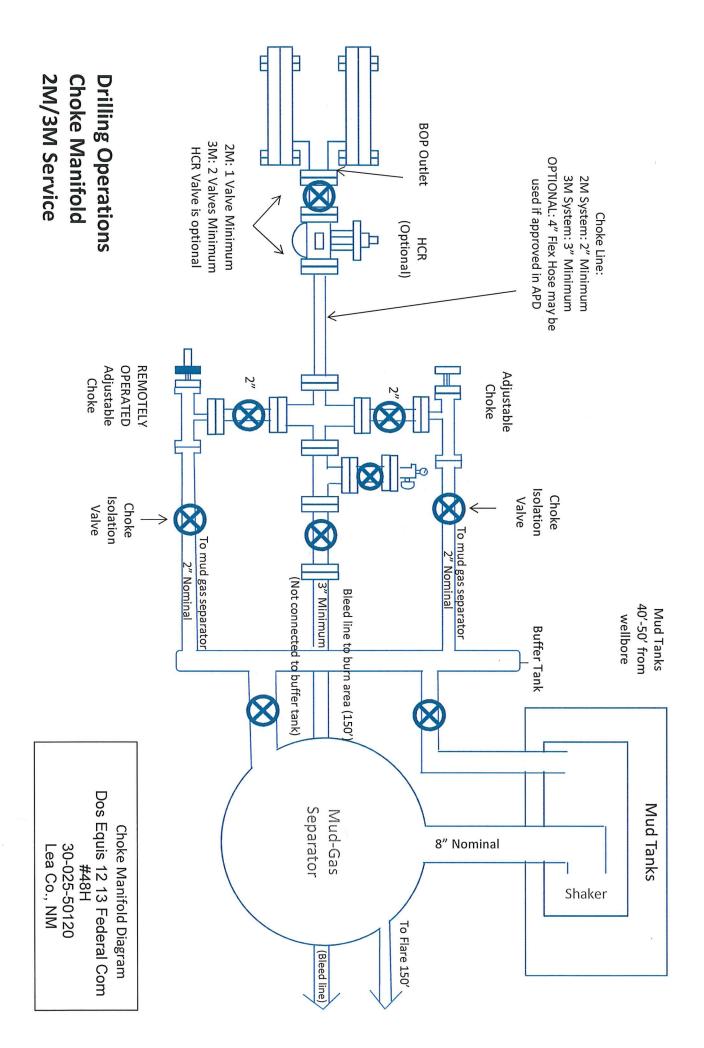
ISCWSA Rev 3 *** 3-D 95.000% Confidence 2.7955 sigma

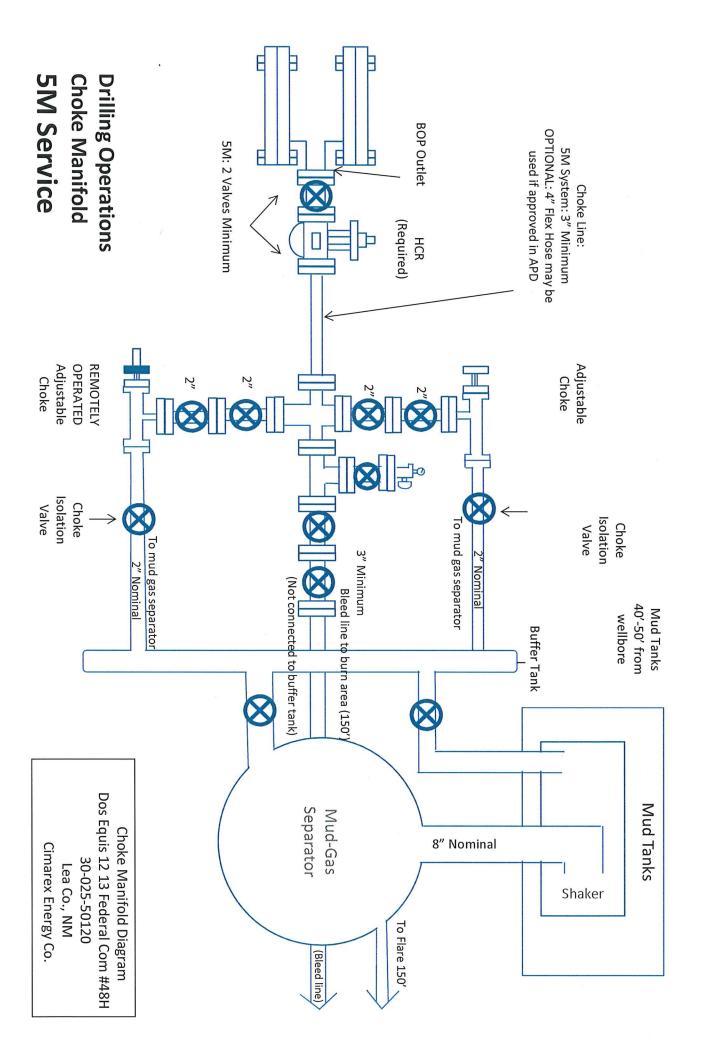
Description	•	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casing Diameter (in) (in)		Inclination Survey 1001 IVD		Borehole / Survey	
		1	0.000	26.000	1/100.000	17.500	13,375		A001Mb_MWD-Depth Only	Dos Equis 12-13 Federal Com #48H / Cimarex Dos Equis 12-13	
		1	26.000	20047.561	1/100.000	17.500	13.375		A001Mb_MWD	Dos Equis 12-13 Federal Com #48H / Cimarex Dos Equis 12-13	











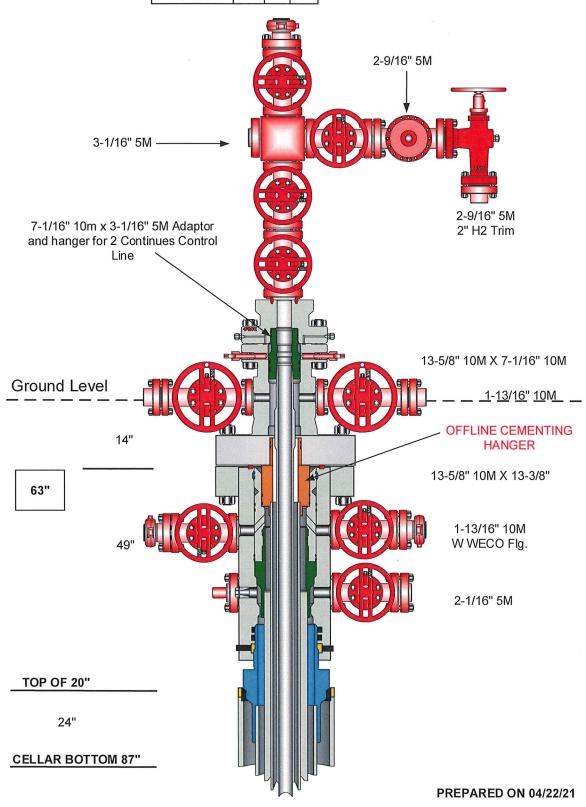


Dos Equis 12 13 Federal Com #48H - 30-025-50120

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
					вим	Minimum	Safety Factor	1.125	1	1.6 Dry 1.8 Wet

CACTUS FOR SERVICE WEARBUSHING IN CASING HEAD & CASING SPOOL

LEA CO., NM



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 164200

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
600 N. Marienfeld Street	Action Number:
Midland, TX 79701	164200
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	12/29/2022