Form 3160-5	UNITED STATES	S		1	FORM	APPROVED
זס	PARTMENT OF THE I	NTERIOR	HOR entek an soposals		OMB N Expires: Ja	O. 1004-0137 anuary 31, 2018
SUNDRY	 Lease Serial No. NMNM26394 					
SUNDRY I Do not use thi abandoned wel	6. If Indian, Allottee c	or Tribe Name				
SUBMIT IN 1	RIPLICATE - Other inst	tructions on	page	9	7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well 8. W						17 FEDERAL 72H
2. Name of Operator CIMAREX ENERGY COMPAN	Contact: VY E-Mail: acrawford(-			9. API Well No. 30-025-46161-0	· · · · · · · · · · · · · · · · · · ·
3a. Address 600 N. MARIENFELD SUITE (MIDLAND, TX 79701	600	3b. Phone No Ph: 432-62	. (include area code) 0-1909		10. Field and Pool or WC-025 G06 S	
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description	י ע			11. County or Parish,	State
Sec 20 T25S R33E SESE 390 32.109894 N Lat, 103.586899					LEA COUNTY,	NM
12. CHECK THE AP	PROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTI	HER DATA
TYPE OF SUBMISSION			TYPE OF	FACTION		
Notice of Intent	Acidize	🗖 Dee	pen	Product	ion (Start/Resume)	□ Water Shut-Off
Subsequent Report	Alter Casing		raulic Fracturing	🗖 Reclam	ation	Well Integrity
	Casing Repair	_	Construction	C Recomp		S Other Change to Original A
Final Abandonment Notice	Change Plans Convert to Injection	🗆 Pluş 🗖 Pluş	and Abandon	U Tempor	arily Abandon	PD
liner for the Vaca Draw 20-17 Please see attached updated Carlsbad F OCD F	drilling plan for approval.	1	EE ATTAC		OR APPROVAL	,
All Previous C 14. Thereby certify that the foregoing is	OAs Still (true and correct. Electronic Submission #	(ENERGY CO	MPANY, sent to t	he Hobbs	•	sing: A.
Name (Printed/Typed) AMITHY E	CRAWFORD		Title REGUL	ATORY AN	ALYST	
Signature (Electronic S	Date 09/13/2	019				
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE	
Approved By JEROMY PORIER Conditions of approval, if any, are attached	Approval of this notice does	not warrant or		<u>um Engini</u>	ER	Date 09/18/2019
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. Office Hobbs						
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a tatements or representations as	crime for any pe to any matter w	rson knowingly and ithin its jurisdiction.	willfully to ma	ake to any department or	agency of the United
(Instructions on page 2) ** BLM REV	SED ** BLM REVISEI	D ** BLM RI	EVISED ** BLN	I REVISED) ** BLM REVISE	D** K2

Revisions to Operator-Submitted EC Data for Sundry Notice #483407

•	Operator Submitted
Sundry Type:	APDCH NOI
Lease:	NMNM26394
Agreement:	· · · ·
Operator:	CIMAREX ENERGY CO. 600 N. MARIENFELD, SUITE 600 MIDLAND, TX 79701 Ph: 432-620-1909
Admin Contact:	AMITHY E CRAWFORD REGULATORY ANALYST E-Mail: acrawford@cimarex.com Ph: 432-620-1909
Tech Contact:	AMITHY E CRAWFORD REGULATORY ANALYST E-Mail: acrawford@cimarex.com Ph: 432-620-1909
Location: State: County:	NM LEA
Field/Pool:	WC-025 6-06 S253329D; BS
Well/Facility:	VACA DRAW 20-17 FEDERAL 72H Sec 20 T25S R33E 390FSL 350FEL

BLM Revised (AFMSS)

APDCH NOI

NMNM26394

CIMAREX ENERGY COMPANY 600 N. MARIENFELD SUITE 600 MIDLAND, TX 79701 Ph: 432.620.1938

AMITHY E CRAWFORD REGULATORY ANALYST E-Mail: acrawford@cimarex.com

Ph: 432-620-1909

AMITHY E CRAWFORD REGULATORY ANALYST E-Mail: acrawford@cimarex.com

Ph: 432-620-1909

NM LEA

WC-025 G06 S253329D

VACA DRAW 20-17 FEDERAL 72H Sec 20 T25S R33E SESE 390FSL 350FEL 32.109894 N Lat, 103.586899 W Lon

1. Geological Formations

TVD of target 9,360 MD at TD 19,226 Pilot Hole TD N/A Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	935	N/A	
Top of Salt	1298	N/A	•
Base of Salt	4714	N/A	
Lamar	4909	N/A	
Bell Canyon	4937	N/A	
Cherry Canyon	5990	N/A	
Brushy Canyon	7536	Hydrocarbons	
Bone Spring	9032	Hydrocarbons	
1st Bone Spring Sand	10011	Hydrocarbons	
2nd Bone Spring Sand	10583	Hydrocarbons	
3rd Bone Spring Sand	11722	Hydrocarbons	
Wolfcamp	12189	Hydrocarbons	
Wolfcamp Target	12430	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	1051	1051	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.54	3.60	6.38
12 1/4	0	4949	4949	9-5/8"	40.00	J-55	LT&C	1.55	1.50	2.63
8 3/4	0	8882	8882	7"	29.00	P110MS	LT&C	2.01	2.64	3.27
8 3/4	8882	9572	9360	7°	26.00	L-80	BT&C	1.21	1.62	48.60
6 1/8	8882	19226	9360	4-1/2"	11.60	P-110 CY	BT&C	1.69	2.39	66.19
·	• • · · · · • • • • • •				BLM	Minimum S	afety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

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

Cimarex Energy Co., Vaca Draw 20-17 Federal 72H

	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.	N .
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N'
Is AC Report included?	N

3. Cementing Program

- and a large state

Casing	# Sks	Wt. (b/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description	
Surface	509	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite	
	137	14.80	1.34	6.32	9.5	Tail: Class C + LCM	
Intermediate	832	12.20	2.12	11.57		Lead: 25:75 (Poz:C) + Salt + Stre	ngth Enhancer
	289	14.80	1.34	6.32	9.5	Tail: Class C + LCM	
Production	463	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite	
	98	14.80	1.34	6.32	9.5	Tail: Class C + LCM	
Completion System	770	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bente	onite + Fluid Loss + Dispersant + SMS
			·			······]
Casing String				TOC			% Excess
Surface						0	4

Surface	0	45
Intermediate	0	50
Production	4600	25
Completion System	9572	10

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

4. Pressure Control Equipment

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BOP installed and tested before drilling which hole?	Size	Min Required WP	Туре		Tested To
12 1/4	13 5/8	2M	Annular	×	50% of working pressure
			Blind Ram		
			Pipe Ram		2М
			Double Ram	x	7
			Other		
8 3/4	13 5/8	3M	Annular	x	50% of working pressure
			Blind Ram		
			Pipe Ram		3м
		[Double Ram	x]
			Other		
6 1/8	13 5/8	3M	Annular	x	50% of working pressure
			Blind Ram		
			Pipe Ram		3M
			Double Ram	x	
			Other		7

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.

X 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.

Are anchors required by manufacturer?

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Drilling Plan

Cimarex Energy Co., Vaca Draw 20-17 Federal 72H

5. Mud Program

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Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 1051'	FW Spud Mud	8.30 - 8.80	30-32	N/C
1051' to 4949'	Brine Water	9.70 - 10.20	30-32	N/C
4949' to 9572'		8.70 - 9.20		N/C

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

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

6. Logging and Testing Procedures

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

Additional Logs Planned

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	4477 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.

 X
 H2S is present

X H2S plan is attached

8. Other Facets of Operation

9. Wellhead

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 3000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 3000 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.

Interval

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 3000 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.

Drilling Plan

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Drilling Plan

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CIMAREX ENERGY COMPANY
LEASE NO.:	NMNM26394
WELL NAME & NO.:	VACA DRAW 20-17 FEDERAL 72H
SURFACE HOLE FOOTAGE:	390' FSL & 350' FEL
BOTTOM HOLE FOOTAGE	100' FNL & 330' FEL
LOCATION:	Section 20, T. 25 S., R 33 E., NMPM
COUNTY:	LEA County, New Mexico

COA

H2S	⊂ Yes	r No	
Potash	None	C Secretary	C R-111-P
Cave/Karst Potential	• Low		
Variance	∩ None	Flex Hose	C Other
Wellhead	Conventional	Multibowl	C Both
Other	☐4 String Area	Capitan Reef	
Other	Fluid Filled	Cement Squeeze	F Pilot Hole
Special Requirements	☐ Water Disposal	ГСОМ	☐ Unit

All Previous COAs Still Apply, Except for the Following:

A. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1051 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface. Excess cement calculates to 16%, additional cement might be required.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 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. Excess cement calculates to 21%, additional cement might be required.
- 4. The minimum required fill of cement behind the 4 ½ inch production liner is:
 - Cement should tie-back at least 100 feet into previous casing string. Operator shall provide method verification. Excess cement calculates to 10%, additional cement might be required.

B. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi.
- 3. 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 intermediate casing shoe shall be **3000 (3M)** 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.

JJP09182019

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)
 - Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 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</u> hours. WOC time will be recorded in the driller's log.
- <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.
- 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: 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.
- 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.

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13-3/8" 48# 46.020 J-55 STC

Dimensions (Nominal)

Outside Diameter	12.375)n
Wall	0.330	ln -
Inside Diameter	12 715	la,
Drift	12.555	in,
Weight, T&C	45,000	:bs/ft
Weight, PE	46 02 0	165/11

Performance Ratings, Minimum

Collapse, Pë	740	psi
Internal Vicios Pressure		
25	2370	psi
STC	2370	psi
Yield Strength, Plpc Body	744	1000 lbz
Joint Strength, STC	433	1000 lbs