B	UNITED STATES PARTMENT OF THE II UREAU OF LAND MANA NOTICES AND REPO Is form for proposals to II. Use form 3160-3 (API	NTERIOR GEMENT	ELLS -enter an proposals	5 OCD	OMB NO	
	TRIPLICATE - Other inst			0 2019	7. If Unit or CA/Agree MultipleSee Att	
1. Type of Well Soli Well Gas Well Ott	10 <b>r</b>		<u> </u>	-N/EL	8. Well Name and No. Multiple-See Attac	ched
2. Name of Operator EOG RESOURCES INCORPO	Contact:	STAR L HAF	RELL REG	EIVER	9. API Well No. Multiple-See Att	ached
3a. Address PO BOX 2267 MIDLAND, TX 79702			. (include area code) 8.9161		10. Field and Pool or E RED HILLS	
4. Location of Well (Footage, Sec., 7	C, R., M., or Survey Description,				11. County or Parish, S	tate
MultipleSee Attached					LEA COUNTY, M	MM
12. CHECK THE AI	PROPRIATE BOX(ES)	TO INDICA	TE NATURE OI	F NOTICE,	REPORT, OR OTH	ER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
Notice of Intent	Acidize	Dee	-	_	ion (Start/Resume)	U Water Shut-Off
Subsequent Report	Alter Casing		raulic Fracturing	Reclam		Well Integrity
☐ Final Abandonment Notice	Casing Repair Change Plans	_	Construction and Abandon	□ Recomp	arily Abandon	Other Change to Original A
	Convert to Injection	D Plug	•	U Water I	f FD	
	fully requests to, on multip casing program.	wells attach	- 4	mich	o add ad Mienci ( CD Hobb	JITICE S
All Previous COA		Exce	pt For t	he F	ollowing:	
	Electronic Submission # For EOG RESOU nmitted to AFMSS for proce	RCES INCOR	PORATED, sent t SCILLA PEREZ or	to the Hobbs n 04/29/2019	- -	
	r it if Nexterler					
Signature (Electronic Submission) Date 04/29/2019						
	THIS SPACE FO	DR FEDER/		OFFICE U	SE	
Approved By JEROMY PORIER Conditions of approval, if any, are attache certify that the applicant holds legal or equ which would entitle the applicant to condu	uitable title to those rights in the act operations thereon.	subject lease	Office Hobbs			Date 05/07/2019
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a statements or representations as	crume for any pe to any matter w	erson knowingly and ithin its jurisdiction.	willfully to m	ake to any department or a	agency of the United
(Instructions on page 2) ** BLM REV	ISED ** BLM REVISED	) ** BLM RI	EVISED ** BLM	I REVISE	) ** BLM REVISED	or Ka
х. Х.с.						

# Additional data for EC transaction #463265 that would not fit on the form

#### 5. Lease Serial No., continued

#### NMNM122624 NMNM94110

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#### Wells/Facilities, continued

Agreement	Lease	Well/Fac Name, Number API Number	Location
NMNM94110	NMNM94110	WILD WEASEL 22 FED COM 701HB0-025-45796-00-X1	Sec 22 T25S R34E NENE 260FNL 513FEL
			32.122540 N Lat, 103.450935 W Lon
NMNM94110	NMNM94110	WILD WEASEL 22 FED COM 702H30-025-45797-00-X1	Sec 22 T25S R34E NENE 293FNL 513FEL
			32.122448 N Lat, 103.450935 W Lon
NMNM94110	NMNM94110	WILD WEASEL 22 FED COM 704H30-025-45798-00-X1	Sec 22 T25S R34E NENE 293FNL 1074FEL
			32.122448 N Lat, 103.452751 W Lon
NMNM122624	NMNM122624	WILD WEASEL 22 FED COM 705H30-025-45799-00-X1	Sec 22 T25S R34E NENE 326FNL 1074FEL
			32.122360 N Lat, 103.452751 W Lon

## **TECHNICAL SPECIFICATIONS**

These specifications are furnished for general information only and are not intended for design purposes. This information is preliminary and may change subject to a final design by VAM-USA Engineering. This is not a controlled document.

DWC/C-IS MS standard		Casing	5.500" O.D.	20.00 lb./ft.	VST P-110EC
VST P-110EC		<u>Material</u> Grade			
125,000		Minimum Yield Strength (ps	ei )		
135,000		Minimum Ultimate Strength	•		
		Pipe Dimensions			
5.500		Nominal Pipe Body OD (in.	•	VAM-USA	Hausten Diese, Suite 450
4.778		Nominal Pipe Body ID (in.)		Houston, TX 7	Houston Pkwy, Suite 150 7041
0.361		Nominal Wall Thickness (in	1.)	Phone: (713) Fax: (713) 47	
20.00		Nominal Weight (lbs./ft.)			SAsales@na.vallourec.com
19.83 5.828		Plain End Weight (lbs./ft.) Nominal Pipe Body Area (s	in )		
5.020		· - ·			
		Pipe Body Performance F			
729,000		Minimum Pipe Body Yield S			
12,090 14,360		Minimum Collapse Pressur Minimum Internal Yield Pre			
13,100		Hydrostatic Test Pressure (		· ·	
		Connection Dimensions	(F)		
6 115					
6.115 4.778		Connection OD (in.) Connection ID (in.)			
4.653		Connection Drift Diameter	(in.)		
4.13		Make-up Loss (in.)	()		
5.828		Critical Area (sq. in.)			
100.0		Joint Efficiency (%)			
		<b>Connection Performance</b>	<b>Properties</b>		·
729,000	(1)	Joint Strength (lbs.)			
26,040	(2)	Reference String Length (f	t.) 1.4 Design F	actor	
728,000	(3)	API Joint Strength (lbs.)			
729,000		Compression Rating (lbs.)			
12,090	(1)	API Collapse Pressure Rat			
14,360 104.2	(4)	API Internal Pressure Resi Maximum Uniaxial Bend R		00 # )	
104.2		•		00 n.)	
		Approximated Field End			
16,600	(5) (5)	Minimum Final Torque (ftI	•		
19,100 21,600	(5) (6)	Maximum Final Torque (ft Connection Yield Torque (f			
	(0)		•	- 11 1	

(1) Joint Strength is the minimum pipe body yield strength multiplied by the connection critical area.

(2) Reference String Length is the joint strength divided by both the weight in air and the design factor.

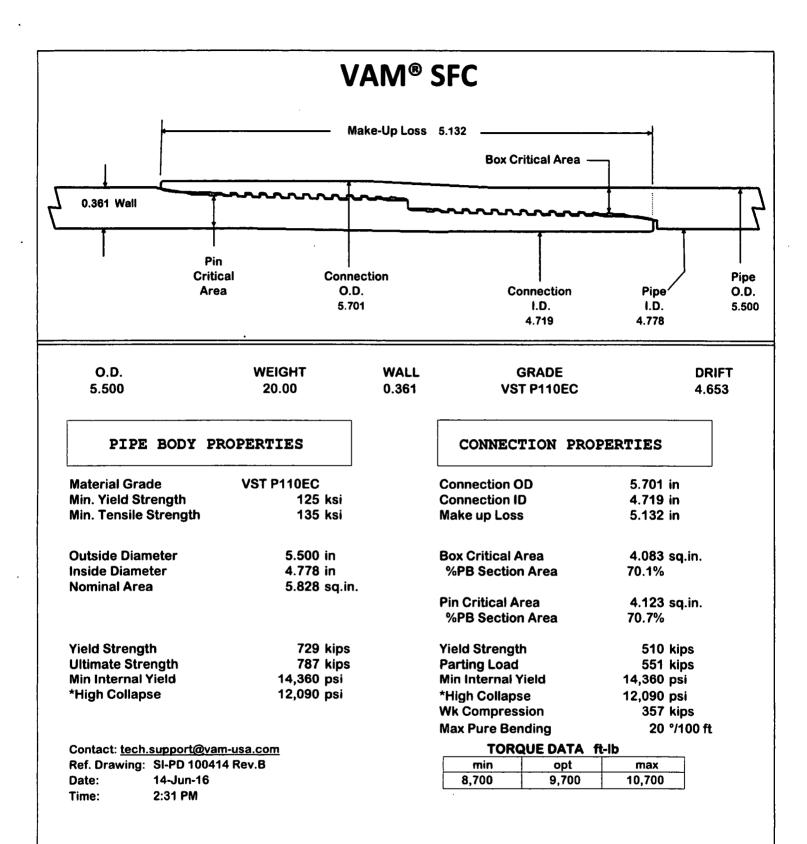
(3) API Joint Strength is for reference only. It is calculated from Formulas 42 and 43 in the API Bulletin 5C3.

(4) API Internal Pressure Resistance is calculated from Formulas 31, 32, and 35 in the API Bulletin 5C3.

(5) Torque values are approximated and may be affected by field conditions.

(6) Connection yield torque is not to be exceeded.

Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades v obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advi to obtain current connection specifications and verify pipe mechanical properties for each application.





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etal One Corp.	MO-FXL		Page	MCT	
	NO-FAL	•	Date	3-Nov-	16
Metal One	Connection Dat	<b>Connection Data Sheet</b>		Rev. 0	
	leconsilv.	Imper		<u>S.I.</u>	,
	Pipe Body				
	CHARLES CONTRACTOR			PRICEON	and the second
	Pipe OD ( D )	7 5/8	in	193.68	mm
MO-FXL	Will Williams				electron and a
	Actual weight	29.04		43.26	kg/m
	Pipe ID ( d )	6.875	in line	174.63	<u>Giffe</u> mm
	PLEO DOL GLOSE STADE			174.05	
	Drift Dia.	6.750	in	171.45	mm
		1 0.000	1		.1
	Connection			and a straight before a	
	PIN ID	6.875	in	174.63	
T T		0.075		174.05	mm
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area	Thread Taper		1/10(1.2	(* per ft.)	
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Pin	M.I.Y.P. 1	10,760	psi	74.21	MPa
critica					
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	M.I.Y.P. = Minin *1 Based on VSB				/
	Performance Properties			)	
	rentormance Properties				
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			100% 0	Collapse S	Strongth
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					Strength

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	Opu.	17,200		23,300	1 14-111 1
·			1		
	Operational Max.	23,600	ft-lb	32,000	N-m

Note : Operational Max. torque can be applied for high torque application



Abstract: Amend the cementing program and add bradenhead squeeze stage. Amend the casing program and revise annulus clearance criteria.

EOG requests that these amendments be applied to the following wells:

Well Name	API No.	Lease No.
Wild Weasel 22 Fed Com #701H	30-025-45796	NMNM094110
Wild Weasel 22 Fed Com #702H	30-025-45797	NMNM094110
Wild Weasel 22 Fed Com #704H	30-025-45798	NMNM094110
Wild Weasel 22 Fed Com #705H	30-025-45799	NMNM122624

#### <u>Cement</u>

EOG requests a variance from the minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated TOC @ the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. A top out stage will be performed as a contingency.

Depth	No. Sacks	Wt. PPg	Yld Ft³/sk	Slurry Description
980' 9-5/8"	990	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 777')
11,530′ 7-5/8″	500	14.2	1.11	1 <sup>st</sup> Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,000')
	1,000	12.7	2.30	2 <sup>nd</sup> Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
TD 5-1/2"	940	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 11,130')

Cementing Program: Primary Plans For 7-5/8" cement Job:

EOG also requests variance for the option to perform this cement procedure on previously permitted 4 string designs in the 7-5/8" 2<sup>nd</sup> Intermediate casing string as a contingency plan.

EOG will include the final fluid top verified by Echo-meter and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

#### **Casing**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF <sub>min</sub> Collapse	DF <sub>min</sub> Burst	DF <sub>min</sub> Tension
12.25"	0' – 980'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75″	0' - 11,530'	7.625″	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75″	0′ – 11,130′	5.5″	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75″	11,130'-11,530'	5.5″	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75″	11,530′ – TD	5.5″	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60

EOG also requests to retain the option to utilize previously permitted 4 string designs, if applicable

#### **Annulus Clearance**

EOG requests variance to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

# PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	EOG RESOURCES INCORPORATED
LEASE NO.:	NMNM094110
WELL NAME & NO.:	WILD WEASEL 22 FED COM 701H
<b>SURFACE HOLE FOOTAGE:</b>	260'/N & 513'/E
<b>BOTTOM HOLE FOOTAGE</b>	100'/S & 330'/E
LOCATION:	<b>SECTION 22, T25S, R34E, NMPM</b>
COUNTY:	LEA

Potash	None		∩ R-111-P
Cave/Karst Potential	• Low	<sup>(</sup> Medium	C High
Variance	○ None	Flex Hose	COther
Wellhead	C Conventional	Multibowl	
Other	□4 String Area	□Capitan Reef	□WIPP

All Previous COAs Still Apply, Except for the Following:

#### A. CASING

- 1. The 9 5/8" surface casing shall be set at approximately 969 feet (a minimum of 25' into the Rustler Anhydrite and above the salt) and cemented to surface.
  - a. If cement does not circulate to 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 6 hours after pumping cement, ideally between 8-10 hours after completing the cement job.
  - b. WOC time for a primary cement job will be a minimum of <u>8 hours</u> or <u>500 psi</u> compressive strength, whichever is greater. This is to include the lead cement.
  - c. If cement falls back, remedial cementing will be done prior to drilling out that string.
  - d. WOC time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.

2. The minimum required fill of cement behind the 7 5/8" intermediate casing is:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage.

## First Stage

• Operator will cement to **7,000** feet with intent to reach Top of Brushy Canyon.

### Second Stage

• Operator will perform bradenhead squeeze with cement to surface.

## Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. <u>Operator must run</u> <u>Echo-meter to verify fluid top and the volume of displacement fluid above the</u> <u>cement slurry in the annulus.</u>

- 3. The minimum required fill of cement behind the 5-1/2" production casing is:
  - Cement should tie-back at least **200 feet** into previous string. Operator shall provide method of verification.

## **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. 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 10,000 (10M) psi. Variance approved to use a 5M annular. The annular must be tested to full working pressure (5,000 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

# GENERAL REQUIREMENTS

- 1. 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

- 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 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log (one log per well pad is acceptable) run from TD to surface (horizontal well vertical portion of hole) shall

be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

### A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <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. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done.

The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.