BUREAU OF LAND MANAGEMENT SUNDEY NOTCES AND REPORTS ON WELLS Do not use this form for proposals to diff or to re-enter an bandmord well. Use form 360-2 (APD) for such proposals. SUBMIT NOTCES AND Proposals to diff or to re-enter an output of the set of	(June 2015) I	UNITED STATE: DEPARTMENT OF THE I			OMB NO	APPROVED 0. 1004-0137
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SUBMIT IN TRIPLICATE - Other Instructions on page 2 IN 10 200 IN 10 200 Note of Contract: EMILY FOLLIS Contract: EMILY FOLLIS E00 RESOURCES INCORPORATEDE Mail: emily, Joling@ogresources.com IN 10 200 Nulliple-Bee Attached IN 424 data emily Address PO BOX 2267 MULTATO X 7702 IN 10 200 IN 10 200 IN 10 200 Address Address Contract: EMILY FOLLIS BOX 2267 MULTATO X 7702 IN 10 200 IN 10 200 IN 10 200 Point Colspan="2">Point Colspan="2">Contract: EMILY FOLLIS SUBCIALTY X7702 IN 10 200 Point Colspan="2">Contract: EMILY FOLLIS Contract: EMILY FOLLIS Contract: EMILY FOLLIS SUBCIALTY X7702 IN 10 4 and Point Colspan="2">Contract: EMILY FOLLIS Contractor Fore Contract: EMILY FOLLIS <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
	abandoned w	ell. Use form 3160-3 (AP	D) for such proposals.		6. If Indian, Allottee o	or Tribe Name
	SUBMIT II	I TRIPLICATE - Other ins	tructions on page 2	35 00	7. If Unit or CA/Agree	ement, Name and/or No.
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MDLAND, TX 19702 4. Location of Weil (Footage, Sec. T. R. M. or Survey Description) Multiple—See Attached 11. Country or Parish, State LeA COUNTY, NM 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE QF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF SUBMISSION I2. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE QF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION I3. Describe Topposed or Interi Change Plans I3. Describe Proposed or Complete Orgenia (Edition Change Plans I3. Describe Proposed or Complete Orgenia all pertinent details, including estimated stating data orgy proposed with an approximate duration of the orgenia of Provide Bio Orgenia (Brain Repair) I3. Describe Proposed or Complete Orgenia all pertinent details, including estimated and two vertical deprivation after the operation or reading the all pertinent and the substraftic topposed or Complete Orgenia all pertinent details, including estimated and two vertical deprivation after the operation or reading the all pertinent and the all pertinent and the operation or reading the all pertinent and the operation or reading the all pertinent and the field with all pertinent and the all pertinent a	2. Name of Operator EOG RESOURCES INCOR	Contact: PORATEDE-Mail: emily_follis	EMILY FOLLIS s@eogresources.com	CEIVE	API Well No. Multiple-See At	ttached
Multiple-See Attached LEA COUNTY, NM 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Image: Complete	PO BOX 2267		3b. Phone No. (include area 525) Ph: 432-636-3600		10. Field and Pool or I RED HILLS-WC	Exploratory Area DLFCAMP, WEST (G
12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION IVPE OF ACTION Image: Subsequent Report Acidize Deepen Production (Star/Resume) Water Shub-Off Subsequent Report Casing Repair New Construction Recomplete Other Other Image: Subsequent Report Change Plans Plug and Abandon Temporarity Abandon Deter Change to Origina 13. Describe Proposed or Completed Operation. Clearly state all perintern details, including estimated starting date of any proposed ovork and approximate duration thereof. The proposal is to depend increased perintern details, including estimated starting date of any proposal work and approximate duration thereof. The proposal of complete Operation. Clearly state all perintern details, including estimated starting date of any proposal work and approximate duration thereof. The proposal of the perintern details, including estimated starting date of any proposal work and approximate duration thereof. The proposal of the perintern details, including estimated starting date of any proposal work and approximate duration thereof. The proposal of the perintern details, including estimated starting date of any proposal work and approximate duration thereof. The proposal of the perintern details, including estimated starting date of any proposal work and approximate duration thereof. The perinter duration duration duration duration duration duration duration duration duration durate durating date of any duration duration duration dura	4. Location of Well (Footage, Sec.	T., R., M., or Survey Description	n)		11. County or Parish,	State
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Notice of Intent B Notice of Intent B Subsequent Report B Subsequent Report B Final Abandonment Notice C Casing Repair B Change Plans B Change Plans B Coher C Change Plans B Coher C Convert to Injection B Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated stating date of any proposed work and approximate duration thereof. I'the proposal is to depend directionally or recomplete horizontally, give subsurface locations and enserved in the work will be performed or provide the Bood No. on Bie with BL/MARA. Required subsequent reports must be filed with all of days following completion of the invest of parations. I'the operation results in a multiple completion or recompletion in new interval. a provimate duration there of the work will be performed or provide the Bood No. on Bie with BL/MARA. Required subsequent reports must be filed with all of days following completion of the invest of parations. I'the operation results in a multiple completion or recompletion in new interval. a provimate duration the over will be performed or provide APD for multiple wells to reflect changes in the casing design, add Bradenhead squeeze, and cementing program. Please find the supporting documentation and list of wells attached. Mathematical data with a foregoing is true and correct. 14. I hereby certify that the foregoing is true and correct. 14. I hereby certify that the foregoing is true and correct. 15. Data of the invest of paratice submission 14. I hereby certify that the foregoing is true and correct. 15. Data of provide the provide submission for processing by PRECILLA PEREZ on 05/14/2019 (19PP194225E) </td <td>TYPE OF SUBMISSION</td> <td></td> <td>TYPE OF</td> <td>F ACTION</td> <td></td> <td></td>	TYPE OF SUBMISSION		TYPE OF	F ACTION		
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All Packages COAs Still Apply, Except for the Eddwing. 14. 1 hereby certify that the foregoing is true and correct. Electronic Submission #464839 verified by the BLM Well Information System For EOG RESOURCES INCONFORATED, sent to the Hobbs Committed to AFMSS for processing by PRSCILLA PEREZ on 051/42/019 (19PP 1842SE) Name (Printed/Typed) BEN HOCHER Signature (Electronic Submission) Date 05/10/2019 THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved By JEBOMY PORIER Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equivable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitions or fraudulent statements or representations as to any matter within its jurisdiction.	determined that the site is ready fo EOG respectfully requests a the casing design, add Brad	Abandonment Notices must be fir final inspection. n amendment to our appro enhead squeeze, and cem	led only after all requirements, includ	ing reclamatio	n, have been completed a ges in	10-4 must be filed once and the operator has
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Additional data for EC transaction #464839 that would not fit on the form

Wells/Facilities, continued

Agreement	Lease	Well/Fac Name, Number	API Number	Location
NMNM110840	NMNM110840	PHILLY 31 FED COM 706H	30-025-44763-00-X1	Sec 31 T26S R34E 290FSL 1790FEL 32.001064 N Lat. 103.506157 W Lon
NMNM110840	NMNM110840	PHILLY 31 FED COM 708H	30-025-44765-00-X1	Sec 31 T26S R34E 290FSL 568FEL 32.001068 N Lat. 103.502220 W Lon
NMNM110840	NMNM110840	PHILLY 31 FED COM 709H	30-025-44766-00-X1	Sec 31 T26S R34E 290FSL 533FEL 32.001068 N Lat, 103.502106 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 125,000 135,000	Material Grade Minimum Yield Strength (psi.) Minimum Ultimate Strength (psi.)
5.500 4.778 0.361 20.00 19.83 5.828	Pipe DimensionsVAM-USANominal Pipe Body OD (in.)VAM-USANominal Pipe Body ID (in.)4424 W. Sam Houston Pkwy, Suite 150Nominal Wall Thickness (in.)Houston, TX 77041Nominal Wall Thickness (in.)Phone: (713) 479-3200Nominal Weight (lbs./ft.)Fax: (713) 479-3234Plain End Weight (lbs./ft.)Fax: (713) 479-3234Nominal Pipe Body Area (sq. in.)Fax: (713) 479-3234
729,000 12,090 14,360 13,100	<u>Pipe Body Performance Properties</u> Minimum Pipe Body Yield Strength (lbs.) Minimum Collapse Pressure (psi.) Minimum Internal Yield Pressure (psi.) Hydrostatic Test Pressure (psi.)
6.115 4.778 4.653 4.13 5.828 100.0	Connection Dimensions Connection OD (in.) Connection ID (in.) Connection Drift Diameter (in.) Make-up Loss (in.) Critical Area (sq. in.) Joint Efficiency (%)
729,000 (1) 26,040 (2) 728,000 (3) 729,000 12,090 14,360 (4) 104.2	Connection Performance Properties Joint Strength (lbs.) Reference String Length (ft.) 1.4 Design Factor API Joint Strength (lbs.) Compression Rating (lbs.) API Collapse Pressure Rating (psi.) API Internal Pressure Resistance (psi.) Maximum Uniaxial Bend Rating (degrees/100 ft.)
16,600 (5) 19,100 (5) 21,600 (6) (1) Joint Strength is the minim	Approximated Field End Torque Values Minimum Final Torque (ftlbs.) Maximum Final Torque (ftlbs.) Connection Yield Torque (ftlbs.) m pipe body yield strength multiplied by the connection critical area.

(1) Joint Strength is the minimum pipe body yield strength multiplied by the connector childran area.
 (2) Reference String Length is the joint strength divided by both the weight in air and the design factor.

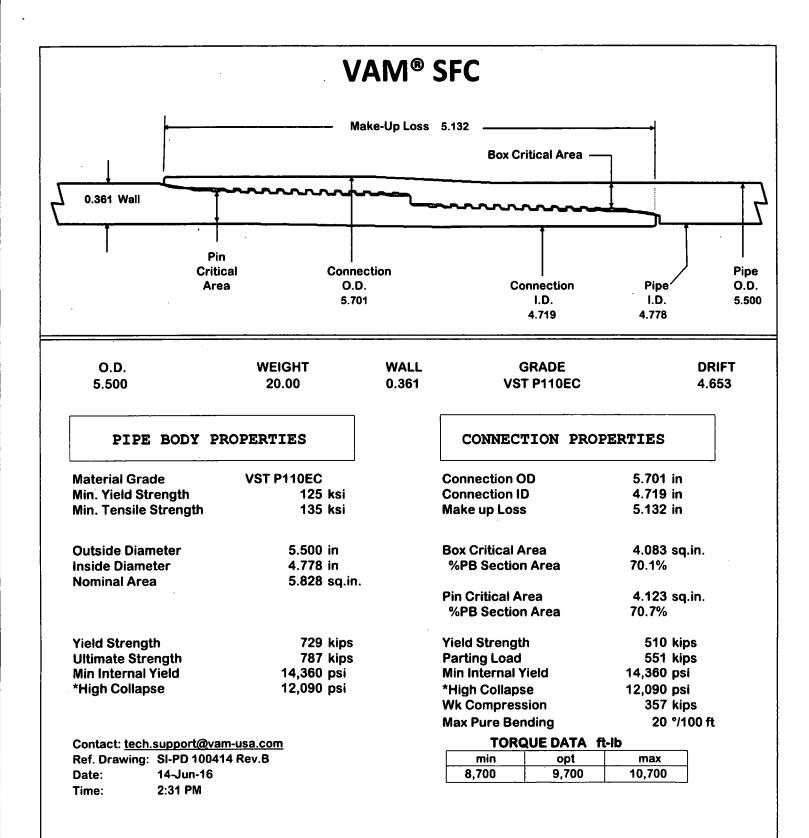
(2) reference cannot congrist a disjoint outsign advised by som the weight in an and the design below.
 (3) API Joint Strength is for reference only. It is calculated from Formulas 42 and 43 in the API Bulletin 5C3.

(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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	MO-FXL		Page	MCTF	
			Date	3-Nov-	16
Metal One	Connection Dat	a Sheet			-
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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.
Philly 31 Fed Com #706H	30-025-44763	NMNM110840
Philly 31 Fed Com #708H	30-025-44765	NMNM110840
Philly 31 Fed Com #709H	30-025-44766	NMNM110840

Cement

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 Ft ³ /sk	Slurry Description
820' 9-5/8"	990	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 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 @ 620')
11,700' 7-5/8″	500	14.2	1.11	1 st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,000')
	1,000	12.7	2.30	2 nd 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 @ 11,200')

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

Cementing Program:

EOG also requests variance for the option to perform this cement procedure on previously permitted 4 string designs in the 7-5/8" 2nd 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

<u>Casing</u>

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0' - 820'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75″	0' - 11,700'	7.625″	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75″	0′ – 11,200′	5.5″	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75″	11,200'-11,700'	5.5″	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75″	11,700' – 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 0.422¹⁷ 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

OPERATOR'S NAME:	EOG RESOURCES INCORPORATED
LEASE NO.:	NMNM110840
WELL NAME & NO.:	PHILLY 31 FED COM 706H, 708H, 709H
SURFACE HOLE FOOTAGE:	Multiple Wells
BOTTOM HOLE FOOTAGE	Multiple Wells
LOCATION:	SECTION 31, T26S, R34E, NMPM
COUNTY:	

Potash	None	✓ Secretary	⊂ R-111-P
Cave/Karst Potential	© Low		∩ High
Variance	C None	Flex Hose	C Other
Wellhead	Conventional	Multibowl	
Other	□4 String Area	Capitan Reef	

These COAs Apply to Multiple Wells (Philly 31 FED COM 706H, 708H, & 709H) All Previous COAs Still Apply, Except for the Following:

A. CASING

- 1. The 9 5/8" surface casing shall be set at approximately 870 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 **7 5/8**" intermediate casing shall be set at **11,700 feet** and the minimum required fill of cement 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> Echo-meter to verify fluid top and the volume of displacement fluid above the cement slurry in the annulus.

- 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

JJP05152019

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)
 - \boxtimes 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 (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</u> <u>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.