, Form 3160-5 (June 2015) DE BI	UNITED STATE: PARTMENT OF THE I JREAU OF LAND MANA	S NTERIOR .GEMENT			FORM OMB N Expires: Ja	APPROVED O. 1004-0137 anuary 31, 2018
SUNDRY	NOTICES AND REPO	RTS ON W	ELLS		5. Lease Serial No. MultipleSee A	ttached
abandoned we	s form for proposals to l. Use form 3160-3 (AP	D) for such	oroposals.		6. If Indian, Allottee of	or Tribe Name
SUBMIT IN 1	RIPLICATE - Other ins	tructions on	page 2		7. If Unit or CA/Agre NMNM139647	ement, Name and/or No.
 Type of Well Oil Well Gas Well Other State of Control of Contro of Control of Control of Control of Control of Control of Co	ier				8. Well Name and No. Multiple-See Atta	ached
2. Name of Operator EOG RESOURCES INCORPO	Contact: DRATEDE-Mail: emily_follis	EMILY FOLI s@eogresourc	LIS es.com		 API Well No. Multiple-See A 	ttached
3a. Address PO BOX 2267 MIDLAND, TX 79702		3b. Phone No Ph: 432-6	o. (include area code) 36-3600		10. Field and Pool or RED HILLS	Exploratory Area
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description	1)			11. County or Parish,	State
Multiple-See Attached					LEA COUNTY,	NM
12. CHECK THE AF	PROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTI	HER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
So Notice of Intent	Acidize	Der	epen.	Product	ion (Start/Resume)	UWater Shut-Off
Subsequent Percet	Alter Casing	🗖 Ну	draulic Fracturing	🗖 Reclam	ation	Well Integrity
	Casing Repair		w Construction		olete	Other Change to Original A
Final Abandonment Notice	Change Plans	🗆 Plu	g and Abandon	Tempor	arily Abandon	PD
?EOG Resources, Inc. respec add a Bradenhead squeeze & the Please find supporting docum	tfully requests to, on mul casing program. entation attached & list o	tiple wells, ar f wells attach	nend the cementi ed.?	ng program Carl	to Standie Albert NOV KIL	u Office
Well Name	API No. Lease No.			CEE Am	UUU MU	DDS
Wild Weasel 22 Fed Com #70 Wild Weasel 22 Fed Com #70 Wild Weasel 22 Fed Com #70 Wild Weasel 22 Fed Com #70	3H 30-025-46137 6H 30-025-45800 7H 30-025-45801 8H 30-025-45802	NMNM09411 NMNM12262 NMNM12262 NMNM12262	0 CON	SEE AT IDITION	TACHED FO	R DVAL
All Previous COAs	Still Apply,	Excep	t For fo	he for	lowing: 1	<u>K. </u>
 14. I hereby certify that the foregoing is Corr 	true and correct.	477348 verific JRCES INCOF essing by PR	by the BLM Wei PORATED, sent t SCILLA PEREZ or	l Information to the Hobbs 08/09/2019	System (19PP2823SE)	
Name (Printed/Typed) BEN HOC	HER		Title REGUL	ATORY AS	SOC.	
Signature (Electronic S	Submission)		Date 08/09/20	019		
	THIS SPACE FO	OR FEDER	AL OR STATE	OFFICE U	SE	
Approved By JEROMY PORTER					FFR	Date 08/19/2019
Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent which would entitle the applicant to condu	d. Approval of this notice does intable title to those rights in the ict operations thereon.	s not warrant or e subject lease	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 statements or representations as	crime for any p s to any matter v	erson knowingly and vithin its jurisdiction.	willfully to ma	ake to any department or	agency of the United
(Instructions on page 2) ** BLM REV	ISED ** BLM REVISE	D ** BLM R	EVISED ** BLN	I REVISED) ** BLM REVISE	D ** / 15

Additional data for EC transaction #477348 that would not fit on the form

5. Lease Serial No., continued

NMNM122624 NMNM94110

Wells/Facilities, continued

Agreement NMNM139647	Lease NMNM94110	Well/Fac Name, Number API Number WILD WEASEL 22 FED COM 703H80-025-46137-00-X1
NMNM139647	NMNM122624	WILD WEASEL 22 FED COM 706H30-025-45800-00-X1
NMNM139647	NMNM122624	WILD WEASEL 22 FED COM 707H30-025-45801-00-X1
NMNM139647	NMNM122624	WILD WEASEL 22 FED COM 708H30-025-45802-00-X1
NMNM139647	NMNM122624	WILD WEASEL 22 FED COM 709H30-025-45803-00-X1
NMNM139647	NMNM122624	WILD WEASEL 22 FED COM 710H30-025-45804-00-X1
NMNM139647	NMNM122624	WILD WEASEL 22 FED COM 711H30-025-46138-00-X1
NMNM139647	NMNM122624	WILD WEASEL 22 FED COM 712H30-025-45805-00-X1
NMNM139647	NMNM122624	WILD WEASEL 22 FED COM 713H30-025-45806-00-X1
NMNM139647	NMNM122624	WILD WEASEL 22 FED COM 714H30-025-45807-00-X1
NMNM139647	NMNM122624	WILD WEASEL 22 FED COM 715H30-025-45808-00-X1

Location Sec 22 T25S R34E NENE 260FNL 1074FEL 32.122540 N Lat, 103.452751 W Lon Sec 15 T25S R34E SWSE 324FSL 2133FEL 32.124149 N Lat, 103.456177 W Lon Sec 15 T25S R34E SWSE 324FSL 2166FEL 32.124149 N Lat, 103.456174 W Lon Sec 22 T25S R34E NENW 413FNL 2529FWL 32.122124 N Lat, 103.458191 W Lon Sec 22 T25S R34E NENW 446FNL 2529FWL 32.122036 N Lat, 103.458191 W Lon Sec 22 T25S R34E NENW 446FNL 2529FWL 32.122036 N Lat, 103.458191 W Lon Sec 22 T25S R34E NENW 249FNL 1443FWL 32.122635 N Lat, 103.4681700 W Lon Sec 22 T25S R34E NENW 229FNL 1443FWL 32.122635 N Lat, 103.461807 W Lon Sec 22 T25S R34E NENW 229FNL 1440FWL 32.122635 N Lat, 103.461170 W Lon Sec 22 T25S R34E NENW 230FNL 695FWL 32.122635 N Lat, 103.464119 W Lon Sec 22 T25S R34E NWNW 230FNL 695FWL 32.122635 N Lat, 103.464333 W Lon

32. Additional remarks, continued

Wild Weasel 22 Fed Com #709H	30-025-45803	NMNM122624
Wild Weasel 22 Fed Com #710H	30-025-45804	NMNM122624
Wild Weasel 22 Fed Com #711H	30-025-46138	NMNM122624
Wild Weasel 22 Fed Com #712H	30-025-45805	NMNM122624
Wild Weasel 22 Fed Com #713H	30-025-45806	NMNM122624
Wild Weasel 22 Fed Com #714H	30-025-45807	NMNM122624
Wild Weasel 22 Fed Com #715H	30-025-45808	NMNM122624

Revisions to Operator-Submitted EC Data for Sundry Notice #477348

	Operator Submitted
Sundry Type:	APDCH NOI
Lease:	NMNM94110
Agreement:	
Operator:	EOG RESOURCES INC PO BOX 2267 MIDLAND, TX 79702 Ph: 432-636-3600
Admin Contact:	EMILY FOLLIS SR REGULATORY ADMINISTRATOR E-Mail: emily_follis@eogresources.com
Tech Contact:	BEN HOCHER REGULATORY ASSOC. E-Mail: Ben_Hocher@eogresources.com Ph: 432-636-3600
Location: State: County:	NM LEA COUNTY
Field/Pool:	96994 PITCHFORK RANCH;
Well/Facility:	WILD WEASEL 22 FED COM 703H Sec 22 T25S R34E 260FNL 1074FEL

BLM Revised (AFMSS)

APDCH NOI

NMNM122624 NMNM94110

NMNM139647 (NMNM139647)

EOG RESOURCES INCORPORATED PO BOX 2267 MIDLAND, TX 79702 Ph: 432.686.3689

EMILY FOLLIS SR REGULATORY ADMINISTRATOR E-Mail: emily_follis@eogresources.com

Ph: 432-636-3600

BEN HOCHER REGULATORY ASSOC. E-Mail: Ben_Hocher@eogresources.com

Ph: 432-636-3600

NM LEA

RED HILLS



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 #703H	30-025-46137	NMNM094110
Wild Weasel 22 Fed Com #706H	30-025-45800	NMNM122624
Wild Weasel 22 Fed Com #707H	30-025-45801	NMNM122624
Wild Weasel 22 Fed Com #708H	30-025-45802	NMNM122624
Wild Weasel 22 Fed Com #709H	30-025-45803	NMNM122624
Wild Weasel 22 Fed Com #710H	30-025-45804	NMNM122624
Wild Weasel 22 Fed Com #711H	30-025-46138	NMNM122624
Wild Weasel 22 Fed Com #712H	30-025-45805	NMNM122624
Wild Weasel 22 Fed Com #713H	30-025-45806	NMNM122624
Wild Weasel 22 Fed Com #714H	30-025-45807	NMNM122624
Wild Weasel 22 Fed Com #715H	30-025-45808	NMNM122624

Casing

Hole	Interval	Csg	Weight	Grade	Conn	DF _{min} Collanse	DF _{min} Burst	DF _{min} Tension
JIZE		00	weight	Glade	Com	conapse	Duist	Tension
12.25"	0'980' 969	9.625″	40#	J-55		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.

<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
9 80 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)
969	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 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 @ 11,130')

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" 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	Purnose
Bostonito Col	Lightweight/Lost size/lation provention
Bentonite Gei	
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

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 standard	MS		Casing	5.500" O.D.	20,00 lb./ft.	VST P-110EC
			<u>Material</u>			
VST P-110	EC		Grade			©
125,0	000		Minimum Yield Strength (osi.)		
135,0	000		Minimum Ultimate Strengt	h (psi.)		
			Pipe Dimensions			USA
5.	500		Nominal Pipe Body OD (ir	ı.)	VAM-USA	
4.	778		Nominal Pipe Body ID (in.)	4424 W. Sam He Houston TX 77(ouston Pkwy, Suite 150
0.3	361		Nominal Wall Thickness (in.)	Phone: (713) 4	79-3200
20	.00		Nominal Weight (lbs./ft.)		Fax: (713) 479- E-mail: VAMUS/	-3234 Asales@na.vallourec.com
19	.83		Plain End Weight (lbs./ft.)			
5.8	828		Nominal Pipe Body Area ((sq. in.)		
			Pipe Body Performance	Properties		
729,0	000		Minimum Pipe Body Yield	Strength (lbs.)		
12,0	090		Minimum Collapse Pressu	ıre (psi.)		
14,:	360		Minimum Internal Yield Pr	essure (psi.)		
13,1	100		Hydrostatic Test Pressure	e (psi.)		۰.
			Connection Dimensions			
6.1	115		Connection OD (in.)			
4.	778		Connection ID (in.)			
4.(653		Connection Drift Diameter	r (in.)		
4	.13		Make-up Loss (in.)			
5.8	828		Critical Area (sq. in.)			
10	0.0		Joint Efficiency (%)			
			Connection Performanc	<u>e Properties</u>		
729,0	000	(1)	Joint Strength (lbs.)			
26,0	040	(2)	Reference String Length ((ft.) 1.4 Design F	Factor	
728,0	000	(3)	API Joint Strength (lbs.)			
729,0	000		Compression Rating (lbs.)		
12,0	090		API Collapse Pressure Ra	ating (psi.)		
14,:	360	(4)	API Internal Pressure Res	sistance (psi.)		
10	4.2		Maximum Uniaxial Bend F	Rating (degrees/1	00 ft.)	
			Approximated Field End	<u>I Torque Values</u>		
16,6	600	(5)	Minimum Final Torque (ft.	-lbs.)		
19,	100	(5)	Maximum Final Torque (ft	Ibs.)		
21,0	600	(6)	Connection Yield Torque	(ftlbs.)		
(1) Joint Strer	ngth is t	he minin	num pipe body yield strength multip	lied 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.





All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

letal One Corp.	MO-FXI		Page	MUT	J
			Date	3-Nov-	16
Metal One	Connection Data	Sheet	Rev	0	
	Ceenseing	Imperi	<u>al</u>	<u>S.I.</u>	
	Pipe Body			13177737577	
		7 5/9		103.69	
MOLEYI		7 5/6		150.00	21
MOST AL	Actual weight	29.04		43.26	ko/m
				(1) 52	
	Pipe ID (d)	6.875	in	174.63	mm
	The second of the second of the second		1 1 2 2		
	Drift Dia.	6.750	in	171.45	mm
		······			
	Connection		••••••••••••••••••••••••••••••••••••••		
		6.975		174.62	
T E	PIN ID	6.0/5		174.65	
			يوسم مي ٿي در ؤي. حيثما	····	
Boy	$ \frac{1}{2} \left\{ \begin{array}{c} 1 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\$			1 19 1 1 19 19 1 19 19 1 19 19 1 19 19 1 19 19	
critici			/ 10 (1.2	?" per ft)	
critici area	Thread Taper		/ 10 (1.2	2" per ft) P),	
Make up boss	 Thread Taper Noncommentation Performance Properties for 	r Pipe Body	1 / 10 (1.2 .51	? per ft) Rh	
Make up loss	 Performance Properties for 	r Pipe Body		2° per ft)	
Make up loss Pin	 Thread Taper Nance: Properties for M.I.Y.P. *1 	r Pipe Body 10,760	/ 10 (1.2 .51	74.21	MPa
Make up toss Pin critica area	 Performance Properties for M.I.Y.P. *1 Note S.M.Y.S.= Specifie 	or Pipe Body 10,760 d Minimum YI	/ 10 (1.2 54 psi ELD Stren	74.21	MPa dy
Make up toss	 D Performance Properties for M.I.Y.P. *1 Note S.M.Y.S.= Specifier M.I.Y.P. = Minimute 	r Pipe Body 10,760 d Minimum YI m Internal Yie	psi ELD Stren	74.21 gth of Pipe bo	MPa dy
Make up loss Pin critica area	 Performance Properties for M.I.Y.P. *1 Note S.M.Y.S.= Specifier M.I.Y.P. *1 	tr Pipe Body 10,760 d Minimum Yi m Internal Yiel 110HC (YS=1	/ 10 (1.2 55 55 55 55 55 10 Pressure 25~140ksi	74.21 gth of Pipe body)	MPa dy
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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: EOG RESOURCES INCORPORATED **COUNTY:** LEA

> WILD WEASEL 22 FED COM 703H LEASE NO.: NMNM94110 LOCATION: Section 22, T.25 S., R.34 E., NMPM API: 30-025-46137

> WILD WEASEL 22 FED COM 706H LEASE NO.: NMNM122624 LOCATION: Section 15, T.25 S., R.34 E., NMPM API: 30-025-45800

WILD WEASEL 22 FED COM 707H LEASE NO.: NMNM122624 LOCATION: Section 15, T.25 S., R.34 E., NMPM API: 30-025-45801

WILD WEASEL 22 FED COM 708H LEASE NO.: NMNM122624 LOCATION: Section 22, T.25 S., R.34 E., NMPM API: 30-025-45802

WILD WEASEL 22 FED COM 709H LEASE NO.: NMNM122624 LOCATION: Section 22, T.25 S., R.34 E., NMPM API: 30-025-45803

WILD WEASEL 22 FED COM 710H LEASE NO.: NMNM122624 LOCATION: Section 22, T.25 S., R.34 E., NMPM API: 30-025-45804

WILD WEASEL 22 FED COM 711H LEASE NO.: NMNM122624 LOCATION: Section 22, T.25 S., R.34 E., NMPM API: 30-025-46138

WILD WEASEL 22 FED COM 712H LEASE NO.: NMNM122624 LOCATION: Section 22, T.25 S., R.34 E., NMPM API: 30-025-45805

Page 1 of 8

WILD WEASEL 22 FED COM 713H LEASE NO.: NMNM122624 LOCATION: Section 22, T.25 S., R.34 E., NMPM API: 30-025-45806

WILD WEASEL 22 FED COM 714H LEASE NO.: NMNM122624

LOCATION: Section 22, T.25 S., R.34 E., NMPM API: 30-025-45807

WILD WEASEL 22 FED COM 715H LEASE NO.: NMNM122624 LOCATION: Section 22, T.25 S., R.34 E., NMPM

API: 30-025-45808

All Previous COAs Still Apply, Except for the Following:

A. CASING

- 1. The 9-5/8 inch surface casing shall be set at approximately 969 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 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.
- 2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. <u>Operator must</u> <u>include final fluid top verified by Echo-meter and the volume of displacement fluid</u> <u>above the cement slurry in the annulus.</u> <u>Submit results to the BLM.</u>

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing 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).'
- 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 is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

C. SPECIAL REQUIREMENT (S)

Communitization Agreement

• The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be</u> <u>on the sign.</u> JJP08192019

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County

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

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 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 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: Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, no tests shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - e. The results of the test shall be reported to the appropriate BLM office.
 - f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to

the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.