Form 3160-5 (June 2015) / DE BU	UNITED STATES PARTMENT OF THE INTERI JREAU OF LAND MANAGEME	or Tarisbad Fi	FORM OMB N Expires: ield Officerial No. NMNM114993	I APPROVED NO. 1004-0137 January 31, 2018	
Do not use thi abandoned wel	s form for proposals to drill o I. Use form 3160-3 (APD) for	r to re-enty an D L such proposals.	Iobbs 6. If Indian, Allottee	or Tribe Name	
SUBMIT IN 1	RIPLICATE - Other instructio	ns on pag <mark>e 20BB</mark>	SOCD7. If Unit or CA/Agr	eement, Name and/or No.	
1. Type of Well Oil Well Gas Well Oth	er/	APR 2	6 2017 8. Well Name and No TRIGG 5 FED 1	э. Н	
2. Name of Operator EOG RESOURCES, INC.	Contact: STAN E-Mail: stan_wagner@eo		9. API Well No. 30-025-42749		
3a. Address P.O. BOX 2267 MIDLAND, TX 79702	3b. P Ph:	hone No. (include area code) 432-686-3689	10. Field and Pool of WILDCAT	r Exploratory Area	
4. Location of Well (Footage, Sec., T	, R., M., or Survey Description)		11. County or Parish	i, State	
Sec 5 T23S R35E 175FNL 17	50FWL		LEA COUNTY	, NM	
12. CHECK THE AN	PPROPRIATE BOX(ES) TO IN	NDICATE NATURE O	F NOTICE, REPORT, OR OT	THER DATA	
TYPE OF SUBMISSION	N TYPE OF ACTION				
Notice of Intent	□ Acidize	Deepen	Production (Start/Resume)	□ Water Shut-Off	
	□ Alter Casing	Hydraulic Fracturing	□ Reclamation	U Well Integrity	
	Casing Repair	New Construction	□ Recomplete	Other Change to Original A	
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporarily Abandon Water Disposal	PD	
following completion of the involved testing has been completed. Final Al determined that the site is ready for f EOG Resources requests an intermediate and production of Change Intermediate casing f (3000-10,700'), 7-5/8" 29.7# E Change production hole size f Change production casing 4.5 P-110 LTC (0-10,200') New wellhead schematic attac Remove BOPE test before dri	operations. If the operation results in bandonment Notices must be filed only inal inspection. amendment to our approved AF asing design and drilling proced rom 7",26# HCP-110 LTC to 7-5 CCP110 BTC SC (0-3000") from 6-1/8" to 6-3/4" in 13.5# P-110 LTC to 5.5" if the intermediate cas	a multiple completion or recc after all requirements, includ 2D for this well to reflect dures as listed below: 5/8" 29.7# HCP-110 FLU P-110 VAM SG (10, 200 C(ing. (Full BOPE test will	TOP 55" 17# Changes in the USHMAX III CE TOP 55" 17# CE ATTACHED FOR ONDITIONS OF APPI I be conducted	ROVAL	
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #372677	verified by the BLM We	Il Information System		
Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/12/2017 ()					
Name (Printed/Typed) STAN WA	GNER	Title REGUL	ATORY ANALYST		
Signature (Electronic S	Submission)	Date 04/11/2	OIT APPROVED		
	THIS SPACE FOR FE	DERAL OR STATE	OFFICE USE		
Approved By _mustofe _	Haque	Title	ETROLEUM ENGINEER	Date 4/19/2-017	
Conditions of approval, if any, are attache certify that the applicant holds legal or equivinch would entitle the applicant to condu-	d. Approval of this notice does not was uitable title to those rights in the subject act operations thereon.	rrant or t lease Office	BUREAU OF LAND MANAGEMEN Carlsbad Field Office	VT	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a crime f statements or representations as to any	or any person knowingly and matter within its jurisdiction.	willfully to make to any department of	or agency of the United	
(Instructions on page 2) ** OPERA	OR-SUBMITTED ** OPERA	ATOR-SUBMITTED *	* OPERATOR-SUBMITTE	D** /2	

Additional data for EC transaction #372677 that would not fit on the form

32. Additional remarks, continued

after installing surface casing.) Change annular preventer test pressure to 250/3500 psi. Multistage tool on 9-5/8" casing above Capitan (4600') (Top of Capitan 4707' KB) Mud system F/5850' T/10,700': Cut Brine 9.0-9.2ppg. F/10,700'-13,000. 10.0-11.5ppg Brine.



EOG RESOURCES, INC. TRIGG 5 FED NO. 1H

11. 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 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Stream Flo FBD100 Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

DEPARTMENT OF THE INTERIOR Mail - NOI casing change etc



Haque, Mustafa <mhaque@blm.gov>

NOI casing change etc

Bruce Coit <Bruce_Coit@eogresources.com> To: "Haque, Mustafa" <mhaque@blm.gov> Cc: Stan Wagner <Stan_Wagner@eogresources.com>, Steve Munsell <Steve_Munsell@eogresources.com> Wed, Apr 19, 2017 at 11:24 AM

Please see the following cement details for the 9-5/8" Intermediate casing.

10.8 3.68 5.850' 400 Stage 1 Lead: Class C + 5% Gypsum + 30 pps SFA + 0.4% DV Tool w/ CPT-503P + 3.5% CPT-45 + 0.25% CPT-35 + 0.85% CPT-ECP @ 20 + 0.85% Citric Acid (TOC @ Surface) 4.600 1250 15.6 1.20 Stage 1 Tail: Class H + 0.2% CPT-51 + 0.3% CPT-20 12.7 1.90 100 Stage 2 Lead: Class C + 3% Salt + 0.6% Gel + 0.5% CPT-45 + 0.1% CPT-20 + 0.1% Citric Acid (TOC @ Surface) Stage 2 Tail: Class C + 0.2% CPT-19 180 14.8 1.33

Thanx,

>>>Bruce Coit Sr. Engineering Associate EOG Resources Office: (432) 686-3702 Mobile: (432) 553-4379 Bruce Coit@EOGResources.com

From: Haque, Mustafa [mailto:mhaque@blm.gov] Sent: Wednesday, April 19, 2017 10:51 AM To: Bruce Coit Cc: Stan Wagner; Steve Munsell

[Quoted text hidden]

[Quoted text hidden]

Trigg 5 Fed #1 Lea County, New Mexico



Issued on: 18 Jul. 2016



External Pressure Efficiency

OD 5 1/2 in.	Weight 20.00 lb/ft	Wall Th. 0.361 in.	Grade P110 EC	API Drift 4.653 in.	Connection VAM® SG
	PIPE PROPERTIES			CONNECTION P	PROPERTIES
Nominal OD	•	5.500 in.	Connection Ty	pe	Premium integral semi-flush
Nominal ID		4.778 in.	Connection O	D (nom)	5.697 in.
Nominal Cross Sect	tion Area	5.828 sqin.	Connection ID	(nom)	4.711 in.
Grade Type		High Yield	Make-up Loss		6.336 in.
Min. Yield Strength		125 ksi	Tension Efficie	encv	87 % of pipe
Max. Yield Strength	1	140 ksi	Compression	Efficiency	61 % of pipe
Min. Ultimate Tensi	le Strength	135 ksi	Compression 1		
			Internal Press	ure Efficiency	100 % of pipe

CONNECTION PERFORMANCES						
Tensile Yield Strength	634 klb					
Compression Resistance	446 klb					
Internal Yield Pressure	14360 psi					
External Pressure Resistance	8463 psi					
Max. Bending with Sealability	40 °/100 ft					

FIELD TORQUE VALUES	
Min. Make-up torque	8100 ft.lb
Opti. Make-up torque	9800 ft.lb
Max. Make-up torque	11500 ft.lb
Maximum Torque with Sealability	12500 ft.lb

70 % of pipe

The single solution for Shale Play needs

VAM® SG brings VAM® premium sealing performance to a semi-flush connection with extremely high Tension performance and increase Torque capacity, validated to the specific Shale drilling requirements, while remaining highly competitive in North American Shale play economics.



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Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance



	ELUSUMAY III	ŀ	Page	1 Oct 1	
Metal One	FLUSHWAA-III		Date	1-001-13	
letal One Corp	inection Data Shee		Rev.	N-0	
	Make up loss	3			
	mm	m	mpt	-	
		1			
	τ.		/		
I Pi	n critical area		Box critical are	ea	
Pipe Body	Imperia	al	<u>S.I.</u>		
Grade	P110		P110		
Pipe OD (D)	7 5/8	in	193.68	mm	
Weight	29.7	lb/ft	44.25	kg/m	
Actual weight	29.0	lb/ft	43.26	kg/m	
Wall thickness (t)	0.375	in	9.53	mm	
Pipe ID (d)	6.875	in	174.63	mm	
Pipe body cross section	on 8.537	in ²	5,508	mm ²	
Drift Dia.	6.750	in	171.45	mm	
Connection					
Box OD (W)	7.625	in	193.68	mm	
PIN ID	6.875	in	174.63	mm	
Pin critical area	4.420	in ²	2,852	mm ²	
Box critical area	4.424	in ²	2,854	mm ²	
Joint load efficiency	60	%	60	%	
Make up loss	3.040	in	77.22	mm	
Thread taper	1	/16 (3/4	4 in per ft)		
Number of threads		5 thread per in.			
Connection Perform	ance Properties				
Tensile Yield load	563.4	kips	2,506	kN	
M.I.Y.P.	7,574	psi	52.2	MPa	
Collanse strength	5,350	psi	36.9	MPa	
oonapse sucrigui		ure of the	e connection		
Note M.I.Y.P. = Minimur	n Internal Yield Press				
Note M.I.Y.P. = Minimur Torque Recommend	n Internal Yield Press	- A IL- 1	11 700	Nem	
Note M.I.Y.P. = Minimur Torque Recommend Min.	n Internal Yield Press	ft-lb	11,700	N-m	
Note M.I.Y.P. = Minimur Torque Recommend Min. Opti.	m Internal Yield Press	ft-lb ft-lb	11,700 13,100	N-m N-m	
Note M.I.Y.P. = Minimur Torque Recommend Min. Opti. Max.	m Internal Yield Press led 9,700 10,700	ft-lb ft-lb ft-lb	11,700 13,100 14,500	N-m N-m N-m	

CASING PERFORMANCE Data Sheet



O.L 7.62). 25	PE LB/FT 29.06	T&C LE 29.7	B/FT 0	GRADE P110EC
		Grade - Materia	al Properti	es	
	Minimun	n Yield Strength:		125	ksi
	Maximur	n Yield Strength:		140	ksi
	Minimum ⁻	Tensile Strength:		135	ksi
		Pipe Body	Data (PE)		
		Geom	etry		
		Nominal ID:		6.875	inch
		Wall:		0.375	inch
	Min. Wall 9	% (API = 87.5%):		87.5	%
		API Drift:		6.750	inch
		Special Drift*:		-	inch
		Perforn	nance		
	Pipe Bod	y Yield Strength:		1,068	kips
	Colla	apse Resistance:		7,360	psi
Internal Yie	ld Pressure	(API Historical):		10,760	psi
	and the	API Conne	ction Data		and the second
	SC II	nternal Pressure:		#N/A	psi
	S	C Joint Strength:		#N/A	kips
	LC Ir	nternal Pressure:		7,764	psi
	L	C Joint Strength:		861	kips
	BC	SC Coupling OD:		8 125	inches
	BC-SC I	ternal Pressure:		8.033	nei
	BC-SC	Burst Pressure:		10,238	psi
	BC-S	C loint Strength:		1 042	kins
	50-0	SC Torau	e (ft-lbs)	1,042	idpo
minimum:	#N/A	optimum:	#N/A	max	imum: #N/A
	State State	LC Torqu	e (ft-lbs)		
minimum	6,459	optimum:	8,612	max	imum: 10,764
minimum					

This data sheet is for informational purposes only. While every effort has been made to ensure the accuracy of all data and that the information contained herein is correct, this material is presented as a reference guide only. Vallourec assumes no responsibility for the results obtained through the use of this material. 7/15/2016 8:47

Trigg 5 Fed 1H 30-025-42749 EOG Resources, Inc Surface Location: Sec. 5, T. 23S, R. 35E Conditions of Approval

All previous COAs still apply except for the following:

A. CASING

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

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. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE.

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.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

<u>Risks:</u> Capitan Reef Possible water flows in the Salado and in the Yates. Possible lost circulation in the Red Beds, in the Rustler, in the Yates, and in the Delaware.

- 1. The 13 3/8 inch surface casing shall be set at approximately 1903 feet (a minimum of 25 feet 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 is to include the lead cement slurry.
 - 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.

Formation below the 13 3/8 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

2. The minimum required fill of cement behind the 9-5/8 inch first intermediate casing, which shall be set at approximately at 5850 feet (to avoid the Delaware Sands, and to set in the competent base of the Capitan Reef) is:

Operator has proposed DV tool at depth of 4600', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation or approved top of cement on the next stage.

- b. Second stage above DV tool:
- Cement to surface. If cement does not circulate see A.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.

Formation below the 9-5/8 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Second intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement

- 3. The minimum required fill of cement behind the **7-5/8** inch second intermediate casing is:
 - Cement should tie-back at least 50 feet above the Capitan Reef, which is 4550 feet (Top of Capitan Reef estimated at 4600 feet). Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.

Formation below the 7-5/8 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

4. 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.

5. 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.

B. PRESSURE CONTROL

1. 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 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. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
- 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.

5M 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.

MHH 04192017