	UNITED STATES		bad Fie	eld Of	FORM OMB NO	APPROVED D. 1004-0137 nuary 31, 2018
SUNDRA	UREAU OF LAND MANA NOTICES AND REPO	RTS ON WE		obbs	5. Lease Serial No. NMNM118727	nuary 31, 2016
Do not use the abandone we	s form for proposals to II. Use form 3160-3 (API	drill or to re- D) for such p	enter an roposals.		6. If Indian, Allottee o	r Tribe Name
SUBMIT IN	TRIPLICATE - Other inst	tructions on p	page 2		7. If Unit or CA/Agree	ement, Name and/or No.
Type of Well Gas Well □ Oth	ner	·			8. Well Name and No. ORRTANNA 20 F	ED 708H
Name of Operator EOG RESOURCES, INC.	· · · · · · · · · · · · · · · · · · ·	STAN WAGN			9. API Well No. 30-025-43748	
3a. Address ATTN: STAN WAGNER P.O. MIDLAND, TX 79702	BOX 2267	3b. Phone No. Ph: 432-68	(include area code) 6-3689)	10. Field and Pool or I WC-025 S26332	Exploratory Area 27G UPPER WC
4. Location of Well (Footage, Sec., T	, R., M., or Survey Description)			11. County or Parish,	State
Sec 20 T26S R33E Mer NMP	SESE 798FSL 443FEL				LEA COUNTY,	NM
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	ΓE NATURE O	F NOTICE,	REPORT, OR OTH	IER DATA
TYPE OF SUBMISSION			TYPE O	F ACTION		
Notice of Intent ■ Notice of Intent	☐ Acidize	□ Deep	en .	☐ Product	ion (Start/Resume)	■ Water Shut-Off
_	☐ Alter Casing	☐ Hydi	raulic Fracturing	☐ Reclam	ation	■ Well Integrity
☐ Subsequent Report	□ Casing Repair	□ New	Construction	☐ Recomp	olete	Other
☐ Final Abandonment Notice	☐ Change Plans		and Abandon	□ Tempor	arily Abandon	Change to Original A PD
	Convert to Injection	Plug	Back	☐ Water I	Disposal	
13. Describe Proposed or Completed Ope If the proposal is to deepen direction. Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab- determined that the site is ready for f	ally or recomplete horizontally, k will be performed or provide operations. If the operation re- pandonment Notices must be fil- inal inspection.	give subsurface the Bond No. on sults in a multiple ed only after all 1	locations and measurable with BLM/BIA e completion or recoverquirements, include	ured and true ve A. Required sul ompletion in a r ding reclamation	ertical depths of all pertin bsequent reports must be new interval, a Form 316 n, have been completed a	ent markers and zones filed within 30 days 0-4 must be filed once
EOG Resources requests an a 4-string casing design as attached		red APD lor tr	ns wen to renect	i a change ic		
		•				·
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #	411750 verifie	by the BLM We	Il Information	n System	
	For EOG F Committed to AFMSS for	RESOURCES,	NC., sent to the	Hobbs		
Name (Printed/Typed) STAN WA	•			ATORY AN		
Signature (Electronic 5	Submission)		Date 04/16/2	0018		
Signature (Diodramo L	THIS SPACE FO	DR FEDERA				
			LORGIAIE	OFFICE O		
_Approved By	onathon Shepard	ž (Title Code	-1	Escinatr	JUbate 2 2018
Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to condu	itable title to those rights in the		Potro Carls	bad F	Engineer ield Office	
Title 18 U.S.C. Section 1001 and Title 43	····	crime for any no				

Revised Permit Information 4/16/18:

Well Name: Orrtanna 20 Fed No. 708H

Location:

SL: 798' FSL & 433' FEL, Section 20, T-26-S, R-33-E, Lea Co., N.M. BHL: 230' FNL & 330' FEL, Section 20, T-26-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole		Csg				DFmin	DFmin	\mathbf{DF}_{min}
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
17.5"	0 – 850'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000 - 4,800	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0 – 11,200'	7.625"	29.7#	HCP110	FXL	1.125	1.25	1.60
6.75"	0 - 10,700	5.5"	20#	P110EC	DWC CIS MS	1.125	1.25	1.60
6.75"	0'-17,149'	5.5"	20#	P110EC	VAM SFC	1.125	1.25	1.60

Variance is requested for annular clearance of the 5-1/2" x 7-5/8" to the top of cement.

Cement Program:

	No.	Wt.	Yld	
Depth	Sacks	lb/gal	Ft ³ /ft	Slurry Description
850°	697	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl2
				(TOC @ Surface)
	333	14.8	1.35	Tail: Class 'C' + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2%
				Sodium Metasilicate + 2.0% KCl (1.06 lb/sk)
4,800	692	12.7	2.22	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 +
	•			0.75% C-41P (TOC @ Surface)
	303	14.8	1.32	Tail: Class C + 0.13% C-20
11,200	375	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 +
				0.20% D167 (TOC @ 4,300')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167
				+ 0.02% D208 + 0.15% D800
17,149	1000	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 +
				0.40% C-17 (TOC @ 10,700')

Mud Program:

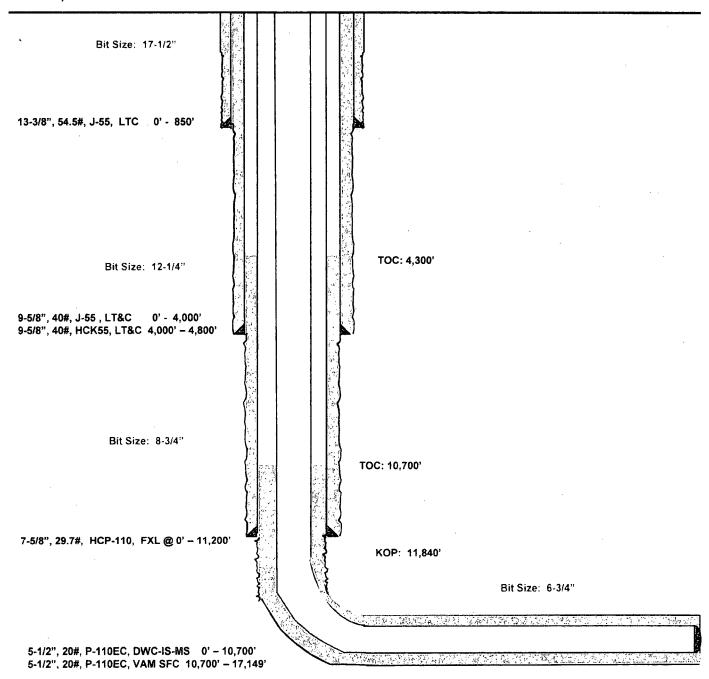
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 850'	Fresh - Gel	8.6-8.8	28-34	N/c
850' - 4,800'	Brine	10.0-10.2	28-34	N/c
4,800'-11,200'	Oil Base	8.7-9.4	58-68	N/c - 6
11.200'- 17.149'	Oil Base	10.0-11.5	58-68	3 - 6
Lateral				

Orrtanna 20 Fed #708H Lea County, New Mexico

798' FSL 443' FEL Section 20 T-26-S, R-33-E

Proposed Wellbore Revised 4/16/18 API: 30-025-43748

KB: 3,265' GL: 3,240'



Lateral: 17,149' MD, 12,264' TVD
Upper Most Perf:
330' FSL & 330' FEL Sec. 20
Lower Most Perf:
330' FNL & 330' FEL Sec. 20
BH Location: 230' FNL & 330' FEL
Section 20

T-26-S, R-33-E

Operator	EOG
: Well Name & No.	Orrtanna 20 Fed 708H
County	Lea
Location (S/T/R)	20/26/33
Lease Number	NMNM118727

Name	Jonathon Shepard
Date	7/11/2018

Type of Casing	Size of Hole	Size of Casing	Weight per Foot	Grade	Yield	Thread	Тор	Bottom	Setting Depth	Length	Collapse	Burst	Tension
	(in)	(in)	(lbs/ft)				(ft)	(ft)	(ft)	(ft): ₹	(psi)	(psi)	(psi)
Surface	17.500	13.375	54:5	J	55	ST&C (46)	0	850	850	850	1130	2730	854000
Intermediate 1	12.250	9.625	40.0	J	- 55	LT&C (21)	0	4000	4000	4000	2570	3950.	630000
Intermediate 2	12.250	9.625	40.0	HCK	55	LT&C (21)	4000	4800	4800	800	4230	3950	630000
Intermediate 3	8.750	7.625	29.7	HCP	110	LT&C (21)	0	11200	11200	11200	7150	9470	940000,
Intermediate 4	6.750	5.500	20.0	Р	110	BTC (4)	0	10700	10700	10700	11080	12360	642000
Production	6.750	5.500	20.0	Р	110	BTC (4)	0	17149	11200	17149	11080	12360	642000
Drilling March	550		20.0				Cement				1		

Drilling Mud	Max Mud Weight						Cement				Company of the Company of the	ษ์มี โชเซละ ร้า	But the second
	Max Minn Assignt	7,	Surface		in the state of th	ntermediate (1 &	2)	Įń.	termediate (1,2,	3 & 4)		Production	
	(ppg)	→ Top of Cement	0	번 경험됐다면	Top of Cement	0	ere element in a company	Top of Cement	4300	arti.	Top of Cement	10700	
_ Surface	8.8		Sacks	Yield (ft³/sx)		Sacks-	Yield (ft³/sx)		Sacks	Yield (ft³/sx)		Sacks	Yield (ft³/sx)
Intermediate 1	10.2	Lead	697	1.74	Lead →	692	2.22	Lead	375	3.67	Lead	1000	1.31
Intermediate,2	10.2	Run 2	333	1.35	Run 2	303	1.32	Run:2	400	2.38	Run 2		
Intermediate 3	9.4	Run 3			Run 3			Run 3			Run 3		
Intermediate 4	9.4	Tail			Tail 💉 🔻			Tail			Táil	, ,	
Production	11.5	Average Yield	1.61	·	Average Yield	1.95		Average Yield	3:00	-	Average Yield	1:31	
		Min. Sacks	466		Min. Sacks	983		_Min. Sacks	586		Min. Sacks	523	
1													

14. 产手有点。		Safety Factors:		J. 12 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Collapse	1.125		Tension	1.8
Burst	1.0		Buoyant Tension	1.6
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	Collapse	:Burst:	Tension	Buoyant Tension
Surface	2,935	700	184	21.5
Intermediate 1	1,317	1,452	ŝ) <u>(</u>)	4.7
Intermediate 2	2/49/2	1,537	23	3,9
Intermediate:3	1.950	1.739	2,9	63,6
Intermediate 4	3.178	2.319	B(E)	8.S · ·
Production	2.684	1,845	19	2.3

	BOP Requirements
Intermediate	Production
Max. Surf. Pressure 3011 psi.	Max Surf Pressure 4234 psi
BOP Required 5M Syste	em BOP Required 5M System

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