

Intent ☒ As Drilled ☐

OCT 18 2018

API #
30-015- 45361

RECEIVED

Operator Name: EOG Resources, Inc.	Property Name: Torpedo 11 State	Well Number 721H
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Kick Off Point (KOP)

UL D	Section 11	Township 25S	Range 27E	Lot	Feet 50	From N/S North	Feet 652	From E/W West	County Eddy
Latitude 32.1517956					Longitude -104.16761			NAD 83	

First Take Point (FTP)

UL D	Section 11	Township 25S	Range 27E	Lot	Feet 330	From N/S North	Feet 651	From E/W West	County Eddy
Latitude N 32.1510255					Longitude W -104.1676124			NAD 83	

Last Take Point (LTP)

UL M	Section 14	Township 25S	Range 27E	Lot	Feet 330	From N/S South	Feet 652	From E/W West	County Eddy
Latitude N 32.1236486					Longitude W -104.1674293			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☐ No

Is this well an infill well? ☐ Yes

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-015-		
Operator Name: EOG Resources, Inc.	Property Name: Torpedo 11 State Com	Well Number 722H

KZ 06/29/2018

Permit Information:

Well Name: Torpedo 11 State Com No. 721H

Location:

SHL: 200' FNL & 364' FWL, Section 11, T-25-S, R-27-E, Eddy Co., N.M.

BHL: 230' FSL & 652' FWL, Section 14, T-25-S, R-27-E, Eddy Co., N.M.

Design A**Casing Program:**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0' – 740'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 7,845'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 19,202'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
740'	400	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	300	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
7,845'	300	9.0	3.5	Class C + 5% Gypsum + 3% CaCl ₂ (TOC @ Surface)
	550	14.4	1.20	50:50 Class H:Poz + 0.25% CPT20A + 0.40% CPT49 + 0.20% CPT35 + 0.80% CPT16A + 0.25% CPT503P
19,202'	800	14.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 7,345)

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 740'	Fresh - Gel	8.6-8.8	28-34	N/c
740' – 7,845'	Brine	8.8-10.0	28-34	N/c
7,845' – 8,590'	Oil Base	10.0-11.5	58-68	3 - 6
8,590' – 19,202' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Design B

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0' – 740'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0' – 2,220'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 7,845'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 19,202'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /sk	Slurry Description
740'	697	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl ₂ (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)
2,220'	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
7,845'	375	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 1,720')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
19,202'	950	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 7,345')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 740'	Fresh - Gel	8.6-8.8	28-34	N/c
740' – 2,220'	Brine	10.0-10.2	28-34	N/c
2,220' – 7,845'	Oil Base	8.7-9.4	58-68	N/c - 6
7,845' – 19,202' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

EOG RESOURCES, INC.
TORPEDO 11 STATE COM #721H

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
- Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
 - Protective equipment for essential personnel.

Breathing apparatus:

 - a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
 - b. Work/Escapes packs — 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
 - c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

 - a. Stretcher
 - b. Two OSHA full body harness
 - c. 100 ft 5/8 inch OSHA approved rope
 - d. 1-20# class ABC fire extinguisher
 - H₂S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.
(Gas sample tubes will be stored in the safety trailer)
 - Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.

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- **Mud program:**
The mud program has been designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.
- **Metallurgy:**
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- **Communication:**
Communication will be via cell phones and land lines where available.

**EOG RESOURCES, INC.
TORPEDO 11 STATE COM #721H**

Emergency Assistance Telephone List

PUBLIC SAFETY: **911 or**

Lea County Sheriff's Department (575) 396-3611

Rod Coffman

Fire Department:

Carlsbad (575) 885-3125

Artesia (575) 746-5050

Hospitals:

Carlsbad (575) 887-4121

Artesia (575) 748-3333

Hobbs (575) 392-1979

Dept. of Public Safety/Carlsbad (575) 748-9718

Highway Department (575) 885-3281

New Mexico Oil Conservation (575) 476-3440

U.S. Dept. of Labor (575) 887-1174

EOG Resources, Inc.

EOG / Midland Office (432) 686-3600

Company Drilling Consultants:

David Dominique Cell (985) 518-5839

Mike Vann Cell (817) 980-5507

Drilling Engineer

Steve Munsell Office (432) 686-3609

Cell (432) 894-1256

Drilling Manager

Aj Dach (432) 686-3751

(817) 480-1167

Drilling Superintendent

Todd Hamilton (432) 848-9029

(210) 413-9569

H&P Drilling

H&P Drilling Office (432) 563-5757

H&P 651 Drilling Rig Rig (903) 509-7131

Tool Pusher:

Johnathan Craig Cell (817) 760-6374

Brad Garrett

Safety

Brian Chandler (HSE Manager) Office (432) 686-3695

Cell (817) 239-0251

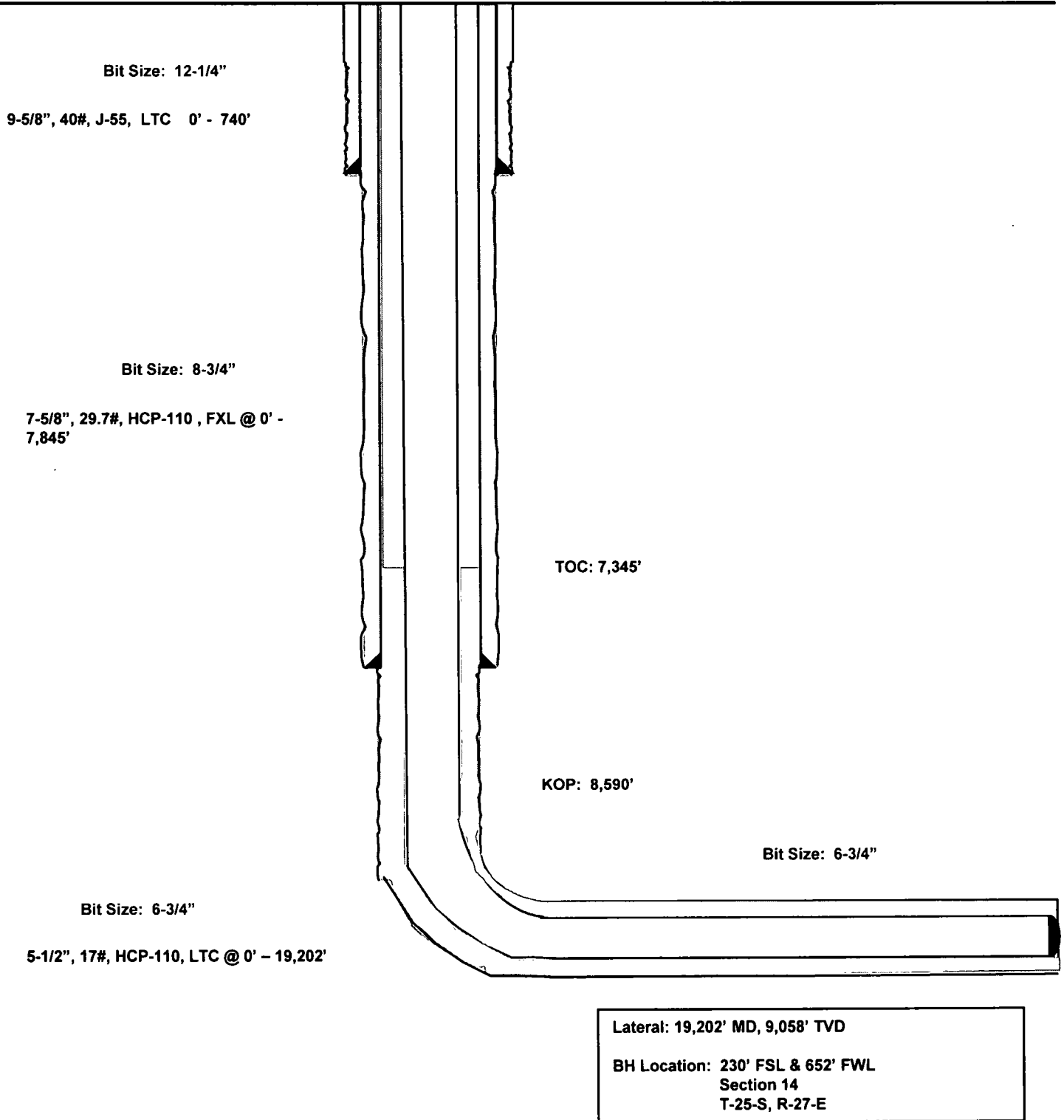
**Torpedo 11 State Com #721H
Eddy County, New Mexico**

**200' FNL
364' FWL
Section 11
T-25-S, R-27-E**

Proposed Wellbore Design A

API: 30-025-*****

**KB: 3,207'
GL: 3,182'**



**Torpedo 11 State Com #721H
Eddy County, New Mexico**

**200' FNL
364' FWL
Section 11
T-25-S, R-27-E**

Proposed Wellbore Design B

API: 30-025-*****

**KB: 3,207'
GL: 3,182'**

