

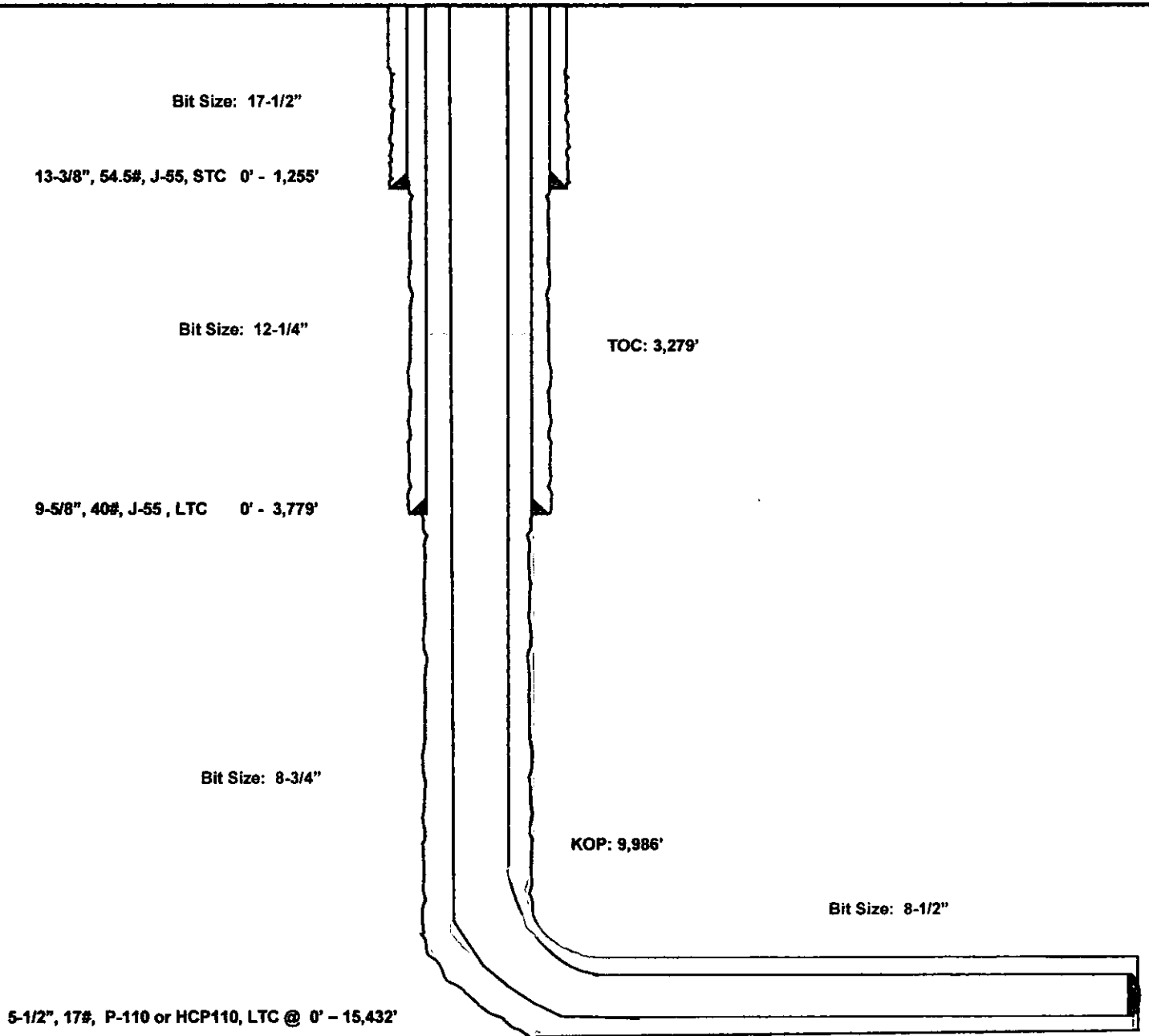
Quail 2 State Com #594H
Eddy County, New Mexico

Proposed Wellbore

300' FNL
2284' FWL
Section 2
T-26-S, R-30-E

API: 30-025-*****
15 45788

KB: 3,242'
GL: 3,217'



Lateral: 15,432' MD, 10,395' TVD
BH Location: 100' FSL & 1540' FWL
Section 2
T-26-S, R-30-E

EOG RESOURCES, INC.
Quail 2 State Com #594H

Permit Information:

Well Name: Quail 2 State Com No. 594H

Location:

SHL: 300' FNL & 2284' FWL, Section 2, T-26-S, R-30-E, Eddy Co., N.M.

BHL: 100' FSL & 1540' FWL, Section 2, T-26-S, R-30-E, Eddy Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0' – 1,255'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0' – 3,779'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 10,736'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
8.5"	10,736' - 15,432'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,255'	547	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	159.8	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
288	341	9.0	3.5	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	288	14.4	1.20	Tail: Class C + 10% NaCl + 3% MagOx
15,432'	3279	11.0	3.21	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 4,100')
	1486	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' – 1,255'	Fresh - Gel	8.6-8.8	28-34	N/c
1,255' – 5,085'	Brine	10.0-10.2	28-34	N/c
5,085' – 9,986'	Cut Brine	8.4-9.0	28-34	N/c
9,986' – 15,432' Lateral	Cut Brine	9.0-9.5	40-42	8-10

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.

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Emergency Assistance Telephone List

<u>PUBLIC SAFETY:</u>	<u>911 or</u>
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
<u>EOG Resources, Inc.</u>	
EOG / Midland	Office (432) 686-3600
<u>Company Drilling Consultants:</u>	
David Dominique	Cell (985) 518-5839
Mike Vann	Cell (817) 980-5507
<u>Drilling Engineer</u>	
Steve Munsell	Office (432) 686-3609
	Cell (432) 894-1256
<u>Drilling Manager</u>	
Aj Dach	Office (432) 686-3751
	Cell (817) 480-1167
<u>Drilling Superintendent</u>	
Domingo Lopez	Office (432) 686-3702
	Cell (432) 215-9452
<u>H&P Drilling</u>	
H&P Drilling	Office (432) 563-5757
H&P 651 Drilling Rig	Rig (903) 509-7131
<u>Tool Pusher:</u>	
Johnathan Craig	Cell (817) 760-6374
Brad Garrett	
<u>Safety</u>	
Brian Chandler (HSE Manager)	Office (432) 686-3695
	Cell (817) 239-0251