

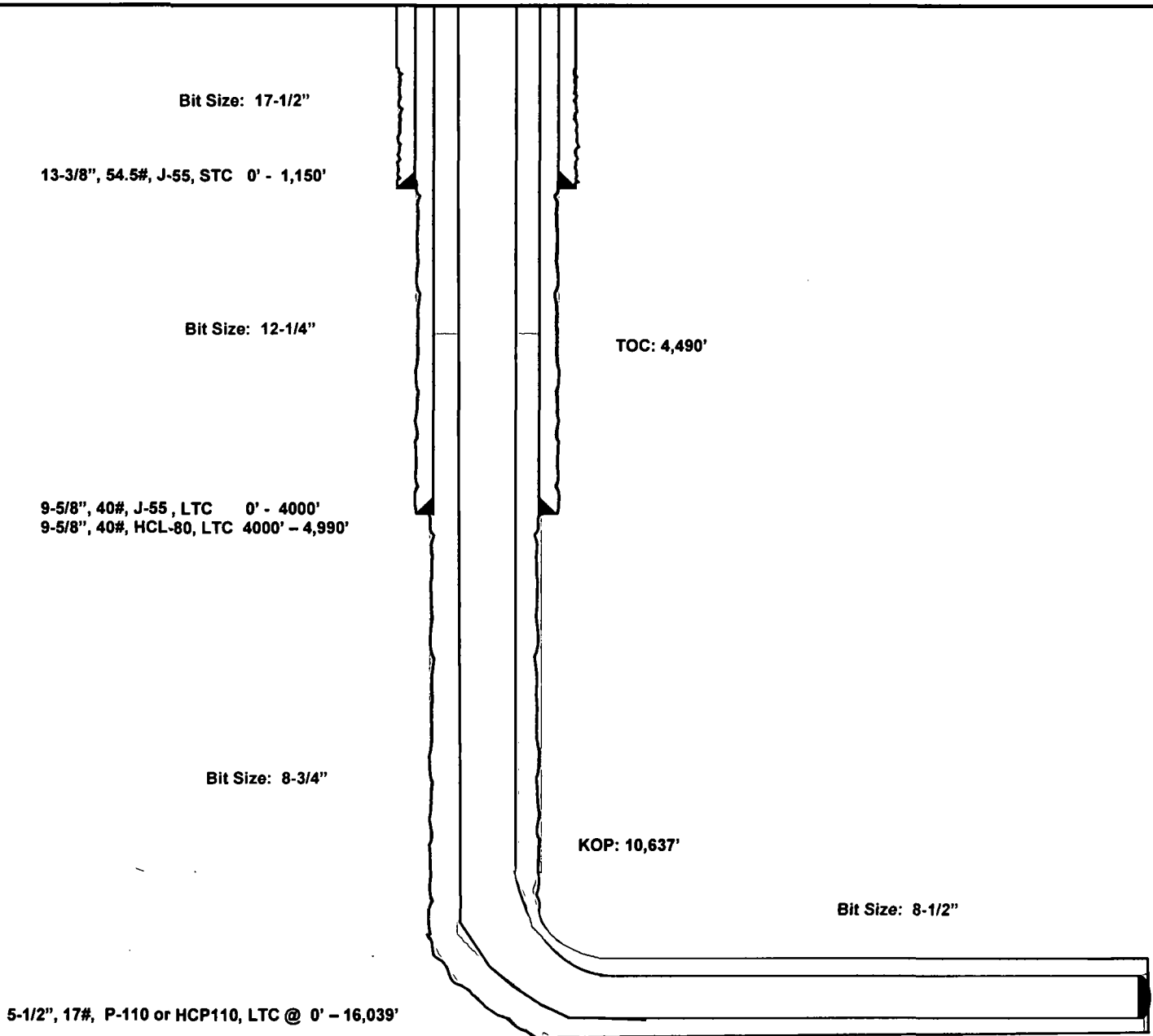
Adder 31 State #507H
Lea County, New Mexico

Proposed Wellbore

747' FSL
782' FEL
Section 31
T-24-S, R-33-E

API: 30-025-*****

KB: 3,532'
GL: 3,507'



Lateral: 16,039' MD, 11,082' TVD
BH Location: 100' FNL & 450' FEL
Section 31
T-24-S, R-33-E

EOG RESOURCES, INC.**Adder 31 State #507H****Permit Information:**

Well Name: Adder 31 State No. 507H

Location:

SHL: 747' FSL & 782' FEL, Section 31, T-24-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 450' FEL, Section 31, T-24-S, R-33-E, Lea 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' - 1,150'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0' - 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4000' - 4,990'	9.625"	40#	HCL-80	LTC	1.125	1.25	1.60
8.75"	0' - 11,387'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
8.5"	11,387' - 16,039'	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
1,150'	494	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	157	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
4,990'	454	9.0	3.5	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	344	14.4	1.20	Tail: Class C + 10% NaCl + 3% MagOx
16,039'	591	11.0	3.21	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 4,490')
	1427	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' - 1,150'	Fresh - Gel	8.6-8.8	28-34	N/c
1,150' - 4,990'	Brine	10.0-10.2	28-34	N/c
4,990' - 10,637'	Cut Brine	8.4-9.0	28-34	N/c
10,637' - 16,039' Lateral	Oil Base	9.0-9.5	40-42	8-10

EOG RESOURCES, INC.
Adder 31 State #507H

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.

EOG RESOURCES, INC.
Adder 31 State #507H

- **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.
Adder 31 State #507H

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

Office (432) 686-3751

Cell (817) 480-1167

Drilling Superintendent

Domingo Lopez

Office (432) 686-3702

Cell (432) 215-9452

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