

KEITH F. QUAIL FEDERAL WELL NO. 1

Spudded 17-1/2" hole 2:30 P.M., November 1, 1961. Ran 862' of 13-3/8" O.D. casing and cemented at 874' with 600 sx regular. Plug at 890'. Cement circulated. Tested before and after drilling plug for 30 minutes with 600 psi. Tested O.K. Job complete 4:00 A.M., November 4, 1961.

Ran 5117' of 9-5/8" O.D. casing and cemented at 5490' with DV tool set at 3290'; 1st stage with 825 sx Trinity Lite Water and 200 sx Neat; 2d stage with 2240 sx Trinity Lite Water and 100 sx Neat. Cement circulated. Top of cement by temperature survey, 40'. Plug @ 5490'. Tested 9-5/8" casing before and after drilling plug for 30 minutes with 1000 psi. Tested O.K. Job complete 4:45 P.M., November 27, 1961.

Core No. 1, 9521' to 9634', rec 53', 100%, sand w/ streaks, NS, job complete Dec. 11, 1961.

Core No. 2, 9636' to 9688', rec 49', 94%, lime w/ good pore & stain, scattered shows, job complete Dec. 12, 1961.

DST No. 1, 9521' to 9695', tool open 2 hours. opened with fair blow and continued thruout test. Gas to surface in 1 hr and 15 min, TSTM. Rec 500' slight oil & GCDM. ISI-1498, FSI-2310, IF-212, FF-280, HI-4231, HO-4231, job complete 11:30 A.M., Dec. 14, 1961.

Core No. 3, 10,250' to 10,260', Core bbl jammed, job complete Dec. 19, 1961.

Core No. 4, 10,260' to 10,272', rec 11.5', 96%, dolomite with show of oil, and tight sandy shale. Job complete 4:00 P.M., Dec. 20, 1961.

DST No. 2, 10,234' to 10,272', tool open 2 hrs with fair blow thruout test. Rec 1780' SW w/ trace oil, no free oil, 30 MISIP-4064, IFP-146, FFP-874, 30 FSIP-1854, HI-4525, HO-4421, job complete 12:15 PM., Dec. 21, 1961.

DST No. 3, 10,924' to 10,998', tool open 2 hrs w/ weak blow thruout test. Rec 1900' GCDM, trace free oil, no wtr. 30 MISIP-855, IFP-465, FFP-690, 30 MFSIP-965, HI & HO-4975, job complete 2:00 P.M., Dec. 29, 1961.

DST No. 4, 13,037' to 13,087', tool open 1 hr w/ no blow, rec 2700' WB, 460' IM, no wtr. 30 MISIP & IFP-110, 30 MFSIP & FFP-180, HI & HO-7690, job complete 4:00 P.M., January 29, 1962.

DST No. 5, 13,087' to 13,183', tool open 1 hr, with few bubbles of air & died, rec 3500' wtr blanket, 90' DM. NSCO or wtr. 30 MISIP-2125, MFFP-1735, FSIP-1925, HI & HO-7980. Job complete 3:30 P.M., Feb. 1, 1962.

DST No. 6, 13,241' to 13,244', wire line test. rec 5-1/2 gals (capacity) Filtrate with 13% form wtr. No oil or gas. 10 MISIP-6740, FFP-7640, 2 MFSIP-7060, HO-7640, job complete 1:30 P.M., Feb. 11, 1962.

DST No. 7, 13,233' to 13,236', wire line test, rec 4-3/4 gals (capacity) Filtrate with 10% form wtr. No oil or gas. 10 MISIP-6760, 10 MFP-6950, 5 MFSIP-7060, HO-7700, job complete 8:30 P.M., February 11, 1962.

Spot the following plugs:

1. 50 sx 13,500' to 13,745'
2. 60 sx 13,290' to 13,390'
3. 50 sx 12,960' to 13,060'
4. 120 sx 12,520' to 12,620'
5. 45 sx 12,220' to 12,320'
6. 80 sx 10,920' to 11,020'
7. 50 sx 10,720' to 10,820'
8. 45 sx 10,210' to 10,310'
9. 45 sx 9,750' to 9,850'

Ran 9699' of 2-7/8" O.D. casing and cemented at 9721' w/250 sx Incor, preceded by 1000 gals mud flush. Plug at 9709'. Tested before and after drilling plug for 30 minutes with 1000 psi. Tested O.K. Job complete 5:00 P.M., February 18, 1962.

Perforate 2-7/8" casing with 4 Jet shots per ft 9601' to 9606', and 9630' to 9639'. Acidize w/500 gals LSTNEA. Swab well. Frac with 10,000 gals slick wtr, 10,000 lbs sand, and 300 lbs rock salt.

On 2L Potential test well swab 49 BW & 18 BW and 7:00 A.M., March 3, 1962. GOR-261, Gravinge, Tex. pay-9611', Btm of pay-9639', USGS date Feb. 13, 1962, Texaco date March 3, 1962.