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DRILLING PROGRESS

HOWARD-MILARD-O

COMPANY	WELL NO.	FARM	COUNTY	STATE
RALPH LOWE	2	MARKHAM-STATE	LEA	NEW MEXICO

- 11-26-57 Went in w/4 3/4" bit & casing scraper. Started drilling retainer.
- 11-27-57 Finished drilling retainer & 81' cement to 9613'. Perforated from 9595' to 9613' w/6--1/4" holes per ft. 4 1/2" McCullough bullet gun. Acidized w/ 500 gals mud acid. Took acid @ 7200 lbs. Treated @ 6800 to 7100 lbs @ 3/4 bbls per min. Acid on formation 6 hrs. Started swabbing 6:30 PM. Well swabbed dry no show of any kind. Acidized w/1000 gals XW non-emulsion. Packer leaking 7 bbls in formation, casing pressure went up to 4550 lbs. Tubing pressure 5300 lbs. Bleed off & raised tubing. Reset packer & continued treatment. Took acid @ 7400 PSI. 1.6 bbls per min. Started swabbing. Got back 54 bbls & packer gave way--load 61 bbls. Lacked 7 bbls having load back. Started out of hole with tubing.
- 11-29-57 Set Baker bridge plug (cast iron) @ 9550'. Perforated @ 9522' to 9531' w/6--1/4" holes per ft. (Bullets) Set tubing @ 9519'. Acidized w/500 gals mud acid. Brought pressure up slowly to 5000 lbs. Pumped in formation @ 5200 lbs @ 2 bbls per min. Swabbed down w/44 bbls back. Load 49 bbls. Acidized w/1000 gals XW. Put 500 PSI on casing. Started acid. Took 38 bbls before hit. PSI built up to 4500 lbs. Let soak 5 mins. Started up, PSI went to 5400 lbs. Started taking acid @ 1-6/10 per min. Put all in formation. Started swabbing @ 6 PM. Load 62 bbls.
- 11-30-57 Well swabbed dry w/61 1/2 bbls back. Unseated packer & spotted 15 ex cement on perf. Cement 9532' back to 9412'. Set bridge plug @ 5350' (Baker cast iron plug) 20' cement top plug. Perforated w/4--1/4" holes per ft from 5170- to 5270'. Acidized w/6000 gals 15% acid. Spotted acid w/ tubing @ 5265'. Picked tubing up to 5145'. Formation broke from 2600 lbs to 1800 lbs. Treated @ 1800 lbs @ 7 & 8 bbls per min. Put in 150 balls w/2000 gals acid gone, 200 balls w/4000 gals acid gone, 50 balls w/10 bbls acid left. No increase of pressure when balls hit. Overflush w/70 bbls water. Formation took water @ 1200 lbs @ 7 bbls per min w/balls off perf. Overflush was put in with balls off perf.
- 12-1-57 Laid tubing down. Released rig.