

JOB LOG

SWIFT Services, Inc.

DATE 27 Jan 66 PAGE NO. 1

CUSTOMER Cholla Production WELL NO. E-1 OWND LEASE Klein JOB TYPE Block Squeeze TICKET NO. 28969

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|---|
| | | | | T | C | TUBING | CASING | |
| | | | | | | | | 75 sk STD Cement 250 gal 15% Reg Acid 27x5 1/2 pipe 4468-70 Packer spot 4478' treat 4443 cement 4375 |
| | 0930 | | | | | | | on loc TRK 114 |
| | 1015 | | | | | | | swab from 4478' tag fluid - 900' |
| | 1145 | 3 | 26 | | | 300 | | Spot 25 bbl - (.6 acid + 22 H ₂ O) - circ fluid - (14 bbl) wait 10 min |
| | | | | | | ∅ | | Pull 1 joint to 4443' set packer |
| | 1206 | 3 | | | | ∅ | | downhole |
| | | 3 | 4 | | | 200 | | catch pressure |
| | | 4 | 10 | | | 1100 | | Kickout inj rate 46 bpm @ 100 use in 1/2 min |
| | 1211 | | | | | | | Swab back load |
| | 1348 | | 5 | | | | | pipe @ 4375' pump 5 bbl H ₂ O |
| | 1353 | 3 | 16 | | | 200 | 200 | Mix STD cement 75 sk @ 15.6 ppm (held in first tank) wash out pump & line |
| | 1407 | 3 | | | | ∅ | | Displace w/ fresh H ₂ O |
| | | 2 | 14 | | | 400 | | catch pressure - 5 bpm rate |
| | 1415 | 1/2 | 15 1/2 | | | 2200 | | Kickout - slight bleedoff |
| | | | | | | 2600 | | pump up to 2600 - holding |
| | | | | | | | | Release pressure to truck - drilled up |
| | 1426 | 1 | | | | 800 | | Reverse out shut way - 800 psi |
| | | | 30 | | | | | hole clean - 10 bbl cement to p.t (4 bbl - 20 sk behind the pipe) |
| | 1450 | | | | | 1000 | | Rest tool - pressure to 1000 psi - holding 3 min |
| | 1500 | | | | | | | Pull tool |
| | 1650 | | | | | | | pressure up 5 1/2 casing to 200 psi |
| | | | 10 1/2 | | | 200 | | shut in casing |
| | | | | | | | | Pack up |
| | 1700 | | | | | | | job complete |
| | | | | | | | | Thanks Blair, Phil & John |

2 bbl in casing
4 bbl behind the pipe