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JAN 24 1961

Attachment - 9-331a

Gulf Oil Corporation - Federal Estill "AD" No. 2-G, Sec. 20, T-24-S, R-26-S

D. C. C.
ARTESIA, OFFICE

CI pressure 2900#. Opened well on 18/64" ck. Flg TP 2350#. CI in 1/2" hr. Killed well with brine. Reset BP @ 10,435', pkr @ 10,354'. Swabbed interval 10,367-371', 4-5 rph from 3800'. Well kicked off. Flowed to pits on 16/64" ck. TP 300#. Flowed gas & brine water. Killed well w/brine. Reset pkr @ 10,463', BP @ 10,515'. Appld 3500# on thg. Pkr OK. Set BP @ 11,150', pkr @ 11,029'. Pumped brine in perf, 2 bpm @ 2600#. Mxd 2000 gals Hesse Intensified acid, 15% HCl w/33% ammonium bifluoride per 1000 gals. Ppd in 500 gals followed by 6 balls, 400 gals followed by 6 balls, 400 gals followed by 6 balls, 400 gals followed by 6 balls & 300 gals followed by 6 balls. IR 3.6 bpm @ 3200-3150#. Opened to pits. Flowed wtr, no press, 2 hrs. Swabbed & KO. Flowed acid gas & gas & water. TP 500#. In 15 min, press dropped to 350#. Started making salt water. Gag went on vac. CI. Unseated pkr and killed well. Reset pkr & BP in blank interval. Tested w/3000#. OK. Reset pkr @ 10,461'. Ppd in annulus 1300#, no returns thru thg. Pkr OK. Straddled perf 11,334-338'. Reset BP @ 11,355', pkr @ 11,271'. Subd thg dry to 9000'. Circ well w/salt wtr. Treated perf 11,334-338' w/2000 gals 15% acid w/66% ammonium bifluoride. Press broke from 3600-3400#. IR 3.5 bpm. Opened to pit. No flow. Swabbed & KO. Flowing back sulphur wtr & gas on 21/64" ck w/1325# TP. Changed ck to 16/64". Press went up to 1450#. Attempted to test perf 11,112-116' & 11,131-135'. Tubing ported by collapse following swabbing. Left in hole was 16' thg, SN, Baker unloading valve above Baker FB pkr, 74' tail pipe, Baker BP retrieving tool on bottom. Fished 11' sliver of tubing. Went in hole w/milling shoe, OS and washover pipe. Rec another sliver of thg. OS grapples were worn slick. Milled 4 1/2" & cut into pkr rubber. Pulled out of hole. Lost Bowen OS grapple. Got hold of fish and released pkr & moved pkr to 10,496' and pkr hung. Jarrd on pkr 2 hrs & broke hold on fish. Attempted to drive pkr down hole. Attempted to mill thru top pkr cone. POH. Found grapple of OS left in hole. Set Baker CI BP on thg @ 10,000#. Spotted out plug. Raised thg 2 jts & cut off plug and rev out. Press tested csg to 1000#. OK. Top of cut plug at 9955'. Perf 7" csg 9050-9085' w/2, JHW. Ran thg w/Baker retr BP & FB pkr & unloading valve & set BP @ 9105', tail pipe @ 9087', pkr @ 9021'. Tested surface connections to 5000#. OK. Ppd 10 bbls brine, 1000 gals 15% HCl acid, 10 bbls brine, 250 gals HCl acid. IR 20 gpm. Closed sub mixer to squeeze & had communications from thg to csg. Rev out acid. Reset BP @ 9000', pkr @ 8905'. Press tested above & below w/3600#. OK. Reset BP @ 9100', tail pipe @ 9087', pkr @ 9021'. Ppd in 10 bbls fresh water followed by 750 gals MCA. Washed to perf w/10 bbls fresh wtr, followed by 250 gals MCA. Washing rate 20 gpm. Closed circ valve. Squeezed 500 gals MCA into form @ 2600#. IR 100 gpm. No break down. Raised thg 2 jts & reset pkr @ 8965', tail pipe @ 9029'. Back flushed w/10 bbls mud in csg. Opened thg to pits. Well unloaded. Perf 7" csg 9828-34', 9840-42' & 9870-74' w/4, 1/2" JHW. Set Baker Model F pkr @ 9112'. Ran 2-7/8" OD thg set @ 9911', GOT circ valve in open position at 9878'. Baker 7" "J" type Snap Set pkr at 9040'. Ran 2-3/8" thg. Set in Baker Snap Set pkr @ 9042' (2' compression). Spotted 1500 gals 15% MCA w/960 gals fresh wtr down 2-7/8" thg. CI. Spotted 500 gals 15% MCA down 2-3/8" thg w/950 gals fresh wtr. Set "J" pkr & latched into Baker pkr. Set 7000# on 2-7/8" thg in Baker receptacle. Set 16,000# on "J" pkr. Squeezed acid into lower zone. Formation broke 4500-2200#. GP 200#. 2-3/8" TP 1100#. GP & 2-3/8" TP did not change during acid treatment. IR at 4500# was 20 gpm after break to 2200#, IR was increased to 120 gpm. Final squeeze press was 3100#. After 10 min CI, Set 2-7/8" TP was 2400#. Started squeezing upper zone. Made pkr test while squeezing w/3300# on 2-3/8" thg. GP was steady at 200#. 2-7/8" thg press steady at 2400#. Pkr OK. Final IR 120 gpm. After 10 min, 2-3/8" TP 2300#. Opened both zones. Lower zone flowed salt wtr & acid on 15/64" ck. TP 600#. Pgt on 18/64" ck & flowed until almost dry. Dead weight TP of 2-7/8" thg, 4011#. After flowing 1 hr, TP 725#. Upper zone flowed at rate of 331 MCFGPD on 15/64" ck & 400# TP.

REV. 10-1-60

1900-1901

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1. The first step is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

100-443887-100

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1972-1973
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Abstract

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• 1988 to 1990: 100% of the population

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