

COMPLETION REPORT

Rustman No. 1-12

December 13, 1969

Rigged up & ran 140 jts. 5½" 14# 8rd J-55 new casing, total 4,436.77'. Ran Halliburton float shoe, baffle w/40- 5½" Orbit Tool scratchers, 2 cement baskets & 5 centralizers. Ran scratchers on 10' spacing from bottom up - 50'; then, on 5' spacing for next 150'; then, on 10' spacing on 50'. Ran cement basket on top of shoe & one on top of 3rd jt., or @ 4,311'. Ran centralizers on 1, 3, 5, 7 & 9 collars. Ran baffle in top of shoe jt. (Shoe jt. 32.54'). Landed pipe @ 4,436' K.D.B. Then Halliburton ran 10 bbl. water flush, then cemented w/125 sx. Common salt saturated. Had good returns & pressures thruout job. Plugged down @ 7:00 P.M.; checked float (OK); then pressured back up to 500# & closed well in.

December 14, 1969

Ran temperature survey, found top of cement @ 3,750'. Set pipe on slips; cut off same & welded on bell nipple. W.O.C.

December 15, 1969

W.O.C

December 16, 1969

W.O.C.

December 17, 1969

W.O.C

December 18, 1969

W.O.C.

December 19, 1969

W.O.C.

December 20, 1969

Patrick Well Service moved in, rigged up & swabbed hole down to 3,950'. Then Welex ran Gamma-Ray collar log; then perforated w/4-way S.D.J. @ 4,366' K.D.B. Swabbed well to perforations, had small show of gas but too small to measure. Waited 30 min.; ran swab - recovered 5' muddy water. Then rigged up Halliburton & pumped 500 gals. mud acid down casing & finished loading hole w/water & let acid soak on perforations. Then started building up pressure gradually, letting soak each 100# buildup. When pressure reached 650#, had 60 gals. acid in formation; 85 gals. acid in 850# pressure; 130 gals. acid in 1,250# pressure & broke back to 0; after 250 gals. in formation, increased rate & psi. Increased back sharply to 500# w/gradual decrease back to 100# when all acid, plus 1½ bbls. overflow of water, in formation. Instant shutdown - 75#; on vacuum in 1½ min. Rigged up & started swabbing w/120 bbls. load to recover @ 6:30P.M. After getting 80 bbls. of load back, had show of oil & gas. Swabbing from 2,000'. From 10:30 - 11:30 P.M., swabbed 18 bbls. oil. Total recovery, now 110 bbls. (oil looks good & gas is better).

December 21, 1969

Continued swab test:

11:30 - 12:30 A.M.	12 bbls.	oil (2 bbls. over load now)	gas steady - 300 MCF
12:30 - 1:30 A.M.	7 "	"	500 MCF gas
1:30 - 2:30 A.M.	4 "	"	500 " " Pitot tube gas test
2:30 - 3:30 A.M.	6 "	"	550 " " " " " "
3:30 - 4:30 A.M.	5 "	"	620 " " (No water show at all)
4:30 - 5:30 A.M.	8 "	"	620 " " " " " "
5:30 - 6:30 A.M.	2 "	"	620 " " " " " "
6:30 - 7:30 A.M.	4 "	"	620 " " " " " "

Dec. 21 (Cont'd.)

We now have 36 bbls. oil over load after acid job; oil is clean & gas is steady @ 620 MCF.

7:30 - 8:30 A.M.	4 bbls. oil, 620 MCF, NO WATER
8:30 - 9:30 "	2 " " " " " "
9:30 - 10:30 "	4 " " " " " "
10:30 - 11:30 "	4 " " " " " "
11:30 - 12:30 "	4 " " " " " "
12:30 - 1:30 P.M.	2 " " " " " "
1:30 - 2:30 "	2 " " " " " "

Waiting on Halliburton & water truck to re-acidize lower zone @ 4,366' with 3,000 gals. 15% reg. acid. Started acid down casing & finished loading hole w/water. Received no pressure after pumping hole volume. Continued increasing rate & finally reached 200# @ 14 bbls./min. rate. Overflushed by 2 bbls. water. Instant shutdown was vacuum. Rigged up & started swabbing @ 4:00 P.M. w/182 bbls. fluid to recover. At 5:30 P.M., had recovered 80 bbls. of load & well kicked off. Had good oil shows, 2 pulls w/swab before well started flowing; 102 bbls. fluid still to recover. Rigged up & flowed well to tank.

5:30 - 6:30 P.M.	49 bbls. oil, 750 MCF gas, Csg. 50#
6:30 - 7:30 "	23 " " 750 " " " "
7:30 - 8:30 "	19½ " " 750 " " " "
8:30 - 9:30 "	10.7 " " 750 " " " 40#
9:30 - 10:30 "	12½ " " 825 " " " 40#
10:30 - 11:30 "	15 " " 850 " " " 40#
11:30 - 12:30 A.M.	10 " " 900 " " " 30# <u>(Dec. 22, '69)</u>
12:30 - 1:30 "	10 " " 900 " " " 30#
1:30 - 2:30 "	10 " " 1,000 " " " 25#
2:30 - 3:30 "	5 " " 1,200 " " " 25#
3:30 - 4:30 "	10 " " 1,300 " " " 25#

(This gas wet w/oil on Pitot tube.)

Total fluid recovered - 258 bbls.; no show of water & gas increasing in lower zone (4,366'). Shut well in @ 5:30 A.M. for Welex to perforate upper zone. Perforated 4,197, 98 & 99' w/4 holes/ft. w/S.D.J. charges. Then ran Baker Model D production packer w/pushout plug in packer. Set top of packer @ 4,344' K.D.B. Ran casing swab & swabbed well down to 4,210'; no show of gas or oil, natural. Then ran 5' production tube (full opening) Baker seal assembly, 1' seating nipple & 2-3/8" 4.70# tested to 3,500# used tubing & let tubing hang @ 4,350'. Packed wellhead off. Then rigged up Halliburton & spotted 1,000 gals. mud acid down tubing to perforations, then closed tubing in. Tied on casing & using water treated w/suds, loaded back side. Pressured to 200# & let soak 5 min.; then pressured to 250# & let soak 5 min. In this 5 min. soak, pressure had decreased to 100#, so pressured back to 250# & let soak for 2 min. Pressure again decreased to 100#. Started pump again, pressured to 250# - formation broke & increasing rate to ½ B.P.M. w/increase to 300#, held steady for 5 min. Increased rate again to ½ B.P.M., pressure decreased to 200#; continued increasing rate to 2 B.P.M., pumping steady - pressure 200#. Total of 12 bbls. acid now in formation. Increased rate to

7 bbls./min.; pressure increased to 750# w/gradual decrease slowly back to 500# while last 12 bbls. acid going in formation & on 2 bbls. water overflush. Instant shutdown - 250#; on vacuum in 1/2 min. Rigged up & started swabbing down tubing - recovery of 45 bbls., 7 pulls w/tubing swab. Well kicked off @ 8:45 P.M. Flowing well up tubing wide open to pits. Flow test:

8:45 - 9:30 P.M.	Csg. - 125#	Too wet to measure
9:30 - 10:30 "	" "	" " " "
10:30 - 11:30 "	" 140#	" " " "
11:30 - 12:30 A.M.	" 180#	Gas: 3,019 MCF (damp) (Dec.23,'69)
12:30 - 1:30 "	" 200#	" 3,140 " "
1:30 - 2:30 "	" 300#	" 3,300 " "
2:30 - 3:30 "	" 355#	" 3,400 " "
3:30 - 4:30 "	" 400#	" 3,400 " "
4:30 - 5:30 "	" 440#	" 3,400 " "
5:30 - 6:30 "	" 470#	" 3,495 " "
6:30 - 7:30 "	" 470#	" 3,495 " "
7:30 - 8:30 "	" 470#	" 3,495 " "

Hooked tubing to production test unit & testing to tank.

	Choke:	Casing:	Tubing:	Sep.:	Gas:	Oil:
9:00 - 10:00 A.M.	26/64	780#	200#		damp (3,120)	
10:00 - 11:00 "	32/64	640#	430#	180#	2,530 MCF	9.6 bbls.
11:00 - 12:00 Noon	38/64	580#	350#	190#	2,530 "	7.5 "
12:00 - 1:00 P.M.	38/64	560#	335#	185#	2,530 "	12.5 "
1:00 - 2:00 "	40/64	550#	315#	180#	2,420 "	9.3 "
2:00 - 3:00 "	40/64	550#	300#	170#	2,310 "	19.6 "

Set test unit to deliver 1,000 MCF gas/day & started test @ 3:30 P.M.

3:30 - 4:30 P.M.	17/64	750#	680#	8#	1,000 MCF	1 1/2 "
4:30 - 5:30 "	"	800#	740#	10#	1,020 "	" "
5:30 - 6:30 "	"	800#	730#	9#	1,000 "	" "

Shut well in for night & pressure built up.

December 24, 1969

8:00 A.M.: Csg. 1,010#, tubing 975#/13 1/2 hrs. Rainbo Wireline ran 2-3/8" tubing plug. Unpacked wellhead & picked up tubing to land in packer; could not get in packer. Pulled plug out of tubing & tied csg. to tbg. & jetted w/gas to top of packer; then ran tubing plug & pushed plug out of packer; took 12,000# pull on latch-in assembly; set slips on tubing in wellhead & packed off same. Released unit to tear down @ 1:30 P.M. this date (12/24). Checked tbg. & csg. to see if packer O.K.; it was. No drop. Both pressure building on up.

s/Max Townsend