

porosity on two gun runs at 10,616' - 10,634' with (2) 0.5" OD JSPF (38 total holes) and at 10,642' - 652' with (2) 0.5" OD JSPF (22 total holes). No pressure increase after perforating. No fluid level change after perforating.

2/13/91: SICP slight vacuum. Trip in hole with RBP overshot and Howco RTTS tool and 1.78" I.D. S.N. and 322 joints 2 3/8" tubing. Bottom of tools at 10,575' K.B. Rig up Halliburton. Pump via annulus 8 barrels 2% KCl fresh water to fluid level. Reverse circulate 6 barrels. Well on hard vacuum after reverse circulation. Set RTTS. Pump via tubing 4 barrels 2% KCl fresh water to load, perforations already broken down. Pump in 1 BPM at 270 psig, increase rate and put away 250 gallons 10% MSA (Acetic acid) on spot 3.0 BPM at 1200 psig, ISDP 200 psig, in 5 minutes 50 psig, in 10 minutes -0- psig. Load to recover 47 barrels. Rig up Swab, run in hole, initial fluid level at 600' from surface. Swab as follows:

Run	Fluid level	Depth	Recovery	Remarks
1	600'	1700	1100	Load water
8	450	1200	750	Well started flowing

  

Time	Choke	FTP	Remarks
2:30 PM	40/64"	300-350	Well start flowing, gas and L.W.
6:00 PM	40/64"	150	Unloading in small slugs, 60% condensate, water, steady flare
6:10 PM	Shut well in and shut down for night.		

2/14/91: 15 hour SITP 940 psig. Hooked up separator and test tank. Opened to flare at 9:00 AM. Well started unloading and pressure dropped to 60-80 psig, flared and unloaded straight to pit until gas would burn. Turned through separator at 12:00 PM. Well stabilized at 2:00 PM with 150 psig tubing pressure. Rates as follows:

TIME	CHOKE	GAS RATE	FTP	OIL METER	WATER METER	COMMENTS
1:00 PM	W/O	360 MCF	150	5110.2	6281.7	100# back pressure
5:00 PM	W/O	550 MCF	180	5131.1	6301.5	36.4 BW, 23.4 BC

2/15/91: SITP 1314 psig. Opened through stack pack on 17/64" choke; unloading gas, condensate and water, no rate.

TIME	CHOKE	RATE	FTP	WATER	OIL	COMMENTS
8:00 AM	17/64"	-0-	1312	6301.2	5131.1	
4:00 PM	48/64"	300	170	6313.4	5196.7	

2/16/91: 8:00 AM SITP 1310 psig. Pumped 200 gallons Para-check "L" followed by 1000 gallons MOD 202, 30 ball sealers, 1000 gallons MOD 202 and 45 barrels 2% KCl water, containing 1000 SCF nitrogen per barrel. After balls began to reach perforations, pressure steadily increased to 7000 psig at 3.0 BPM fluid plus 1.5 BPM nitrogen. Decreased rate to 2.5 BPM liquid to maintain 7000 psig, ISDP 4940 psig, in 5 minutes 4350 psig, in 10 minutes 3930 psig, in 15 minutes 3700 psig. Total load 52 barrels, average rate 3 BPM liquid, 1.5 BPM nitrogen, average pressure 4500 psig, maximum pressure 700 psig. Blew well head pressure to 300 psig through tree saver. Started flowing to pit at 3:45 PM. Flowed to pit until 5:15 PM, continuous gas flare, unloading strong spray of water and condensate 150-200 psig. Opened through stack pack at 6:00 PM.

TIME	CHOKE	RATE	FTP	WATER	OIL
6:00 PM	W/O	660	200	6318.5	5199.5
2:00 AM	W/O	560	150	6386.5	5241.5

Flow test for 8 hours 560 MCF/day, 70 barrels water and 42 barrels condensate.