

HISTORY OF OIL OR GAS WELL

Henshaw Deep Unit Well No. 5 was spudded at 12:00 noon 5-21-62 with cable tools. Drilled 17 1/2" hole to 511'. Cemented 13 3/8" casing at 511' w/350 sx. and filled annulus to surface w/pea gravel. Spudded w/Rotary Tools at 4:00 PM, 6-2-62. Drilled 12 1/4" hole to 3062'. Cemented 9 5/8" casing at 3062' w/1425 sx. Circulated cement. Started drilling 8 3/4" hole. Mudded up at 7500'. Cut Core # 1: 8725' - 8740'. Cut Core # 2: 8740' - 8750'. Cut Core # 3: 8750' - 8773'. Cut Core # 4: 8773' - 8804'. Cut Core # 5: 8889' - 8923'. Cut Core # 6: 8923' - 8935'. Ran DST # 1: 8875' - 8935' (60' Wolfcamp). Tool open 90 minutes thru 5/8" BC, 1" TC, 4" DP. GTS 15 minutes. Opened w/strong blow and continued strong throughout test. Recovery: 100' (1 bbl.) gas cut mud + 150' (1.5 bbls.) oil & gas cut mud + 200' (2.2 bbls.) mud cut oil + 200' (2.2 bbls.) gas & mud cut water + 600' (6.5 bbls.) water. Recovery water titrated 38,000 ppm Cl⁻. Pit mud 200 ppm Cl⁻. 60 minutes ISIBHP 3399 psi. FBHP 143 - 422 psi. 60 minutes FSIBHP 3105 psi. HMP 4252 - 4265 psi. Conclusive Test. (Johnston) Ran DST # 2: 9300' - 9479' (179' Wolfcamp). Tool open 90 minutes thru 5/8" BC, 1" TC, 4" DP. Opened w/strong blow, decreased to weak in 1 hour and continued weak. GTS 48 minutes. Recovery: 100' (1.1 bbl.) gas cut mud + 100' (1.1 bbl.) mud cut sulfur water + 7975' (81 bbls.) sulfur water. Recovery water titrated 30,000 ppm Cl⁻. Pit mud titrated 150 ppm Cl⁻. 60 minutes ISIBHP 3676 psi. FBHP 2660 - 3676 psi. 60 minutes FSIBHP 3676 psi. HMP 4626 - 4626 psi. Conclusive Test. (Johnston) Ran 2I-LL at 9800'. Drilled to 11,614'. Ran DST # 3: 11,505' - 11,614' (109' Devonian). Tool open 90 minutes thru 5/8" BC, 3/8" TC, 4" DP. Opened w/good blow decreasing to fair in 30 minutes continuing throughout test. NGTS. Recovery: 95' (0.4 bbls.) very shi gas cut mud. 30 minutes ISIBHP 1548 psi. FBHP 76 - 212 psi. 60 minutes FSIBHP 2434 psi. HMP 5637 - 5637 psi. BHT 148 deg. Recovery mud titrated 500 ppm Cl⁻. Pit mud 500 ppm Cl⁻. Conclusive Test. (Johnston) Drilled to 11,814'. Ran DST # 4: 11,613' - 11,814' (201' Silurian). Tool open 1 hour and 15 minutes thru 5/8" BC, 1/4" TC, 4" DP. Opened w/weak blow and died in 5 minutes. Recovery: 450' (1.8 bbls.) drilling mud, no shows. Recovery mud titrated 3100 ppm Cl⁻. Pit mud 200 ppm Cl⁻. 120 minutes ISIBHP 4810 psi. FBHP 150 - 338 psi. 60 minutes FSIBHP 4461 psi. HMP 5790 psi. Conclusive Test. (Johnston) Drilled to 11,900'. Ran DST # 5: 11,810' - 11,900' (90' Silurian). Tool open 62 minutes thru 5/8" BC, 1/8" TC, 4" DP. Opened w/very weak blow and died in 5 minutes. Recovery: 210' (1 bbl.) drilling mud, no shows. Recovery mud titrated 4200 ppm Cl⁻. Pit mud 150 ppm Cl⁻. 30 minutes ISIBHP failed. 60 minutes FSIBHP 4499 psi. HMP 5828 - 5857 psi. Conclusive Test. (Johnston) Drilled to TD 12,100'. Ran GR/N 2I-LLB & ML logs. Ran DST # 6: 11,900' - 12,100' (200' Silurian). Tool open 47 minutes thru 5/8" BC, 1" TC, 4" DP. Opened w/good blow and continued throughout test. Recovery: 640' (6.4 bbls.) salt water cut mud + 340' (3.4 bbls.) mud cut water + 9720' (97 bbls.) sulfur water. Recovery water titrated 23,600 ppm Cl⁻. Pit mud 250 ppm Cl⁻. 60 minutes ISIBHP 4870 psi. FBHP 3006 - 4823 psi. 30 minutes FSIBHP 4854 psi. HMP 5811 - 5795 psi. Conclusive Test. (Foster) Set cement plugs as follows: 25 sx at 11,830' - 11,920'; 25 sx. at 10,011' - 10,100'; 75 sx. at 9252' - 9400'. Cemented 4 1/2" casing at 9250' w/650 sx. PBTD 9215'. Ran 2" tubing open-ended, displaced water w/oil and spotted 450 gallons 15% BDA on bottom. Ran GR/CCL survey PBTD to 7500'. Perforated 8785' - 8792', 8795' - 8801' w/2 JSFF. Ran 2" tubing. Displaced acid to formation. Hung tubing w/packer at 8749'. Recovered load. On OPT flowed 305 BOPD, cut 0.2% BS&W, thru 16/64" choke. FTP 800 psi. Gravity 40.8 deg. API. GOR 1650. Official Completion Date 8-25-62.

DEVIATION RECORD

90' = 0 deg.	2431' = 1/2 deg.	6000' = 1 3/4 deg.	9566' = 1 3/4 deg.
160' = 1/4 deg.	2687' = 1/2 deg.	6142' = 1 3/4 deg.	9671' = 2 deg.
280' = 1/4 deg.	3230' = 3/4 deg.	6296' = 1 3/4 deg.	9767' = 1 1/2 deg.
345' = 1/2 deg.	3405' = 1 deg.	7110' = 1 1/2 deg.	9837' = 1 3/4 deg.
470' = 1/2 deg.	3712' = 1/2 deg.	7322' = 1 3/4 deg.	10,421' = 1 3/4 deg.
500' = 1 deg.	4070' = 1 deg.	7441' = 1 3/4 deg.	10,509' = 2 deg.
800' = 1 1/2 deg.	4348' = 1 deg.	7632' = 1 deg.	10,719' = 2 deg.
923' = 1 1/4 deg.	4588' = 1 deg.	7788' = 1 deg.	10,934' = 2 3/4 deg.
1185' = 1 1/4 deg.	5407' = 1 1/2 deg.	8186' = 1 deg.	11,235' = 2 3/4 deg.
1405' = 1 1/4 deg.	5570' = 1 1/2 deg.	8300' = 1 deg.	
1705' = 3/4 deg.	5627' = 1 deg.	8544' = 1 deg.	
2130' = 3/4 deg.	5835' = 1 3/4 deg.	9110' = 3/4 deg.	

R. A. Lowery

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RECEIVED
AUG 29 1962
U.S. GEOLOGICAL SURVEY
AMSTERDAM, NEW MEXICO