



# E. W. OLSON

PETROLEUM COUNSELOR

320 DENVER ST.

STERLING, COLORADO

January 23, 1954

## COMPLETION REPORT

F. KIRK JOHNSON

6109 CAMP BOWIE BLVD.

FORT WORTH 7, TEXAS

TRIBELHORN #1

Section 20-9N-52W

Logan County, Colorado

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DATA SHEET

DISCUSSION



DATA SHEET

LOCATION: NE NE Section 20, Township 9 North,  
Range 52 West, Logan County, Colorado

COMPLETED: January 19, 1954

CONTRACTOR: Signal Oilfield Service

MEASUREMENTS: All measurements in this report are  
corrected to kelly bushings

ELEVATION: 3933 ground: 3944 kelly bushings

TOTAL DEPTH: 4808 driller: 4809 Schlumberger

CASING: 147 joints (4563.75 feet), 5 $\frac{1}{2}$ " OD,  
15.5#, J-55, Range 2, German made,  
new casing cemented at 4570 feet from  
kelly bushings with 100 sacks of  
regular cement.

PLUG BACK DEPTH: 4535 feet casing tally; 4541.5 feet  
Lane-Wells.

TUBING: 124 joints (4470.80 feet) 2" EUE,  
4.7#, J-55, Range 2, National Tube,  
new tubing landed at 4478 feet from  
kelly bushings with three foot perfor-  
ated nipple on bottom.



## DISCUSSION

Rotary drilling equipment was used to drill and core to the total depth of 4808 feet which penetrated the upper Skull Creek formation. A drill stem test of the upper sand in the "D" zone indicated commercial gas production.

Production casing was cemented at 4570 feet from kelly bushings. Weatherford reciprocating scratchers were installed on the casing between 4562 feet and 4415 feet. Three Weatherford centralizers were installed at 4566 feet, 4510 feet, and 4480 feet respectively. The casing went in the hole free at all times after which the mud pump circulated drilling mud for thirty minutes with full returns and normal pressure. One Halliburton rubber plug was used ahead of the cement and one behind. During the time the 100 sacks of cement was being displaced the casing was moved in the hole far enough for collars and scratchers to pass. The cement was in place at 10:00 am, January 13, 1954. A temperature survey was run approximately twenty hours later and found the top of the cement at 4198 feet which was an 88% fill-up behind the casing.

On January 17, 1954, Signal Oilfield Service began moving cable tools over the hole to do the completion work. The bailer was run to bottom several times and recovered a small amount of contaminated water.

On January 18, 1954, Lane-Wells ran their Gamma Ray and Neutron log. Their measurements found the total depth, casing collars, and sand tops all approximately seven feet deep. After correlating their measurements with the Schlumberger electric log, four cone shots per foot and two steel A-2 shots per foot were placed in the pipe from 4483 feet to 4490 feet Schlumberger electric log measurements.

The tubing was then run with a three foot perforated nipple bull plugged on bottom and landed at 4478 feet from kelly bushings. After swabbing through the tubing for approximately three hours the well began to unload the remaining water that was in the hole. A small gas leak was found in the casing at ground level so the well was shut in before all the water was removed. The machine shop made an emergency clamp which was installed effectively. On January 20, the well was blown again for a one hour period after which a pitot tube reading was taken and found the rate of flow to be 2,750,000 cubic feet of gas with considerable water through the two inch tubing. On January 21, the well was again blown with a fair amount of water and 3,880,000 cubic feet of gas.



Discussion

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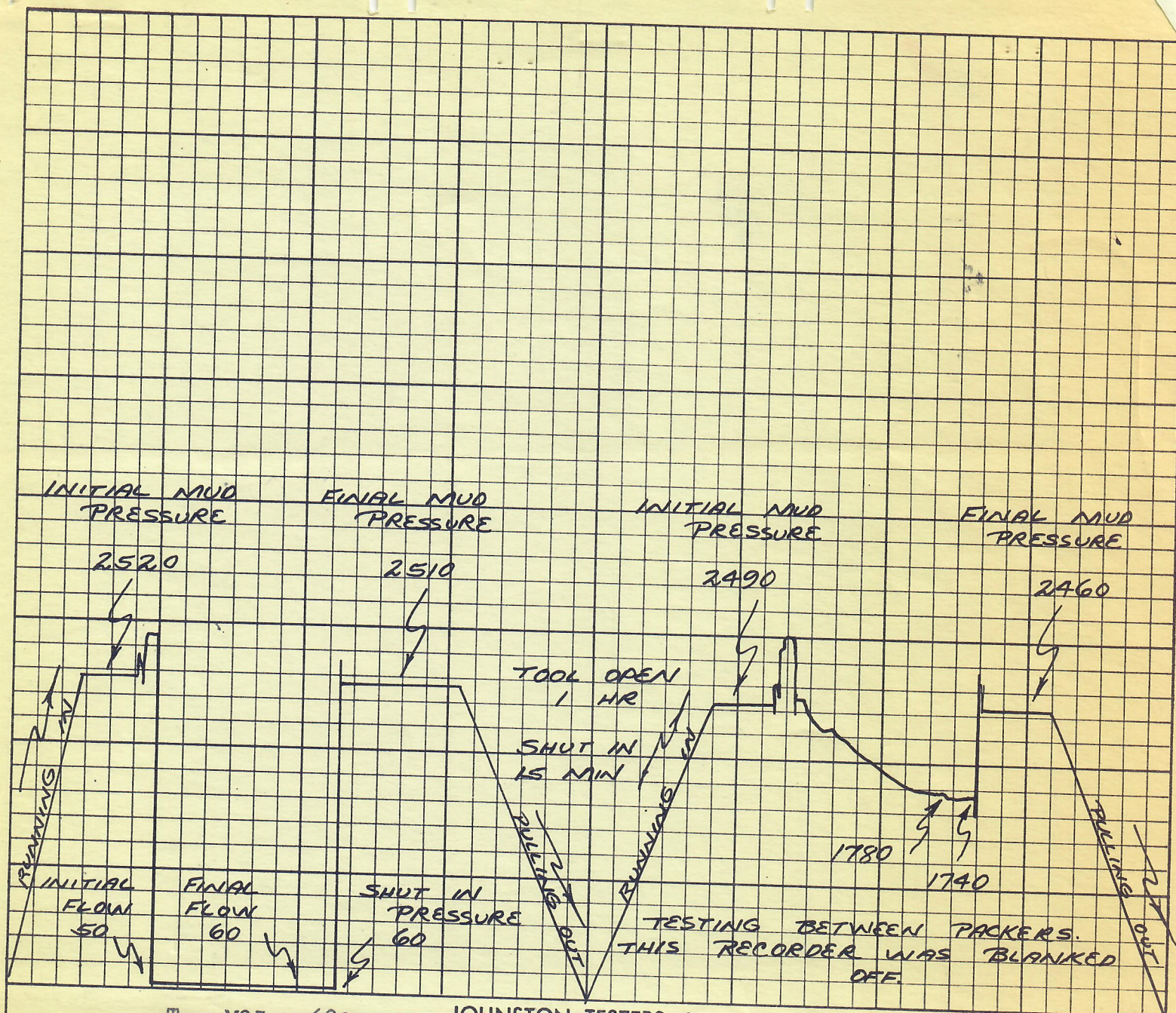
On January 22, there was also 3,880,000 cubic feet of gas with a small amount of water. There was no indication of hydrocarbons at any time while blowing the well. The pressure on the casing and tubing builds up to approximately 1035 pounds on gauge.

Yours very truly,

*E. W. Olson*

EWO:co





Top MOJ - 680

JOHNSTON TESTERS, Inc.  
SUB-SURFACE PRESSURE RECORD

Bottom MOJ - 491

Company F. Kirk Johnson

Well No. #1 Tribelhorn

Location Logan County, Colo.; Sterling

Packer Set At 4649'-4655' Total Depth 4670'

Water Cushion -----

Recovery 10' drilling mud.

Date of Test 1 - 10 - 54

Recorder No. MOJ-680; MOJ-491

Pressure Element 4500#; 3000#

Max. Temp. --- Mud Wt. 10

Date Calibrated 5 - 6 - 53

Surface Pressure ----- Choke Size: Top --- Bottom 1/2"

Kind of Test Formation Operator Carl J. Moehr Number of Copies 6

Test Ticket # 59064

F. Kirk H Johnson

6109 Camp Bowie Blvd.  
Ft. Worth, Texas

