

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Smith	Well No. 1				Date	12/20/72
County	Hodgeman	Sec. 7	Twp. 22s	Rng. 24w		Elevation	2442 K.B.
Company	Larry Stephenson				Test No.	1	
Contractor	Red Tiger Drilling				Zone Tested	Miss.	
Charge To	Larry Stephenson				Ticket No.	1115	
Approved By	Richard Foley				Tester	Blake	

Recorder No. 1760 Depth 4559 Recorder No. 1620 Depth 4562

Initial Flow Press. 36 To 36 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 41 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 34 To 34 P.S.I. Final Flow Period 30 Min.

Final Shut-in Press. 34 P.S.I. Final Shut-in 30 Min.

Initial Hydro Mud Press. 2467 P.S.I. Final Hydro Mud Press. 2440 P.S.I.

Temperature 114

Mud Weight 9.6 Viscosity 45

Fluid Loss 6.4

Interval Tested 4525 To 4565

Damage Ratio

$$DR = .183 \frac{P_s - P_f}{m}$$

Initial

Final

Top Packer Depth 4520 Surface Choke Size 5/8

Bottom Packer Depth 4525 Bottom Choke Size 5/8

Total Depth 4565 Main Hole Size 7 7/8

Drill Pipe Size Wt Rubber Size 6 3/4

Drill Collar I.D. Ft. Run

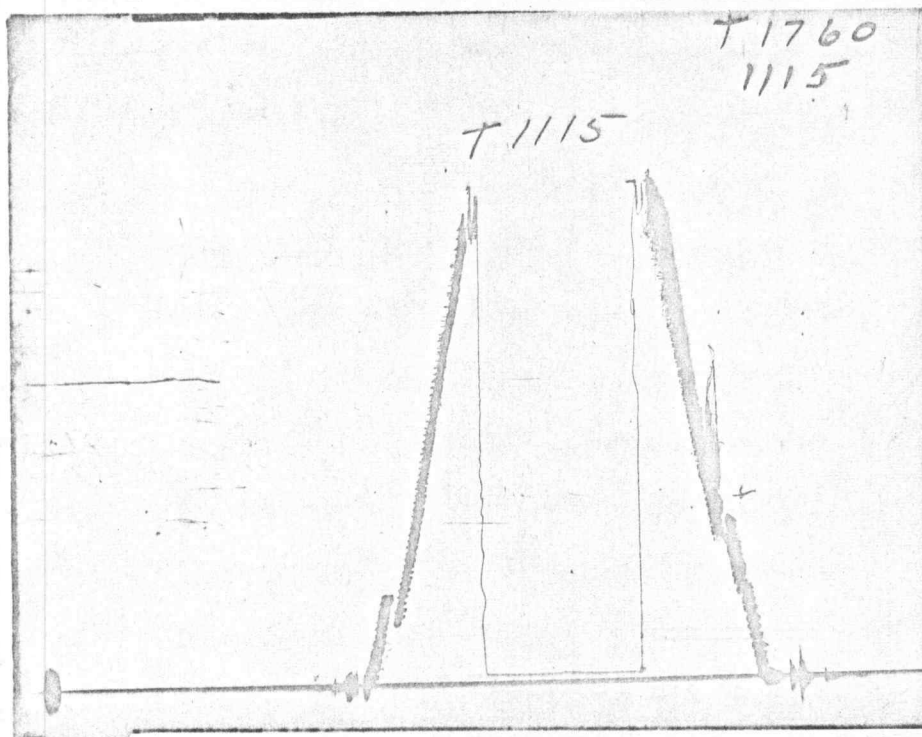
Blow Weak for 9 min.

Recovery 10' mud with specks of oil

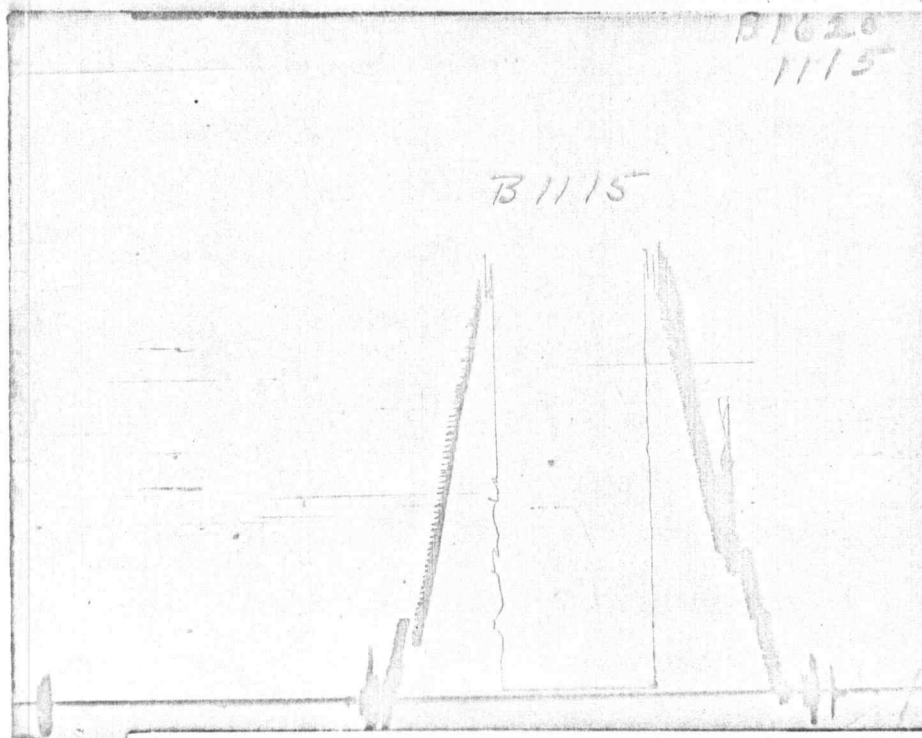
	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
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TEST NO. 1

TICKET NO. 1115



TOP



BOTTOM

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Smith	Well No. 1			Date	12/20/72
County	Hodgeman	Sec. 7	Twp. 22s	Rng. 24w	Elevation	2442 K.B.
Company	Larry Stephenson				Test No.	2
Contractor	Red Tiger Brlg.				Zone Tested	Miss.
Charge To	Larry Stephenson				Ticket No.	1116
Approved By	Richiard Foley				Tester	Blake

Recorder No. 1760 Depth 4564 Recorder No. 1620 Depth 4567

Initial Flow Press. 46 To 47 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 304 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 49 To 49 P.S.I. Final Flow Period 60 Min.

Final Shut-in Press. 114 P.S.I. Final Shut-in 30 Min.

Initial Hydro Mud Press. 2470 P.S.I. Final Hydro Mud Press. 2462 P.S.I.

Temperature 114

Mud Weight 9.6 Viscosity 42

Fluid Loss 6.4

Interval Tested 4531 To 4570

Damage Ratio

$$DR = .183 \frac{P_s - P_f}{m}$$

Initial

Final

Top Packer Depth 4526 Surface Choke Size 5/8

Bottom Packer Depth 4531 Bottom Choke Size 5/8

Total Depth 4570 Main Hole Size 7 7/8

Drill Pipe Size 4 1/2 Wt Rubber Size 6 3/4

Drill Collar I.D. Ft. Run

Blow Weak - died. 23 min. 2nd open

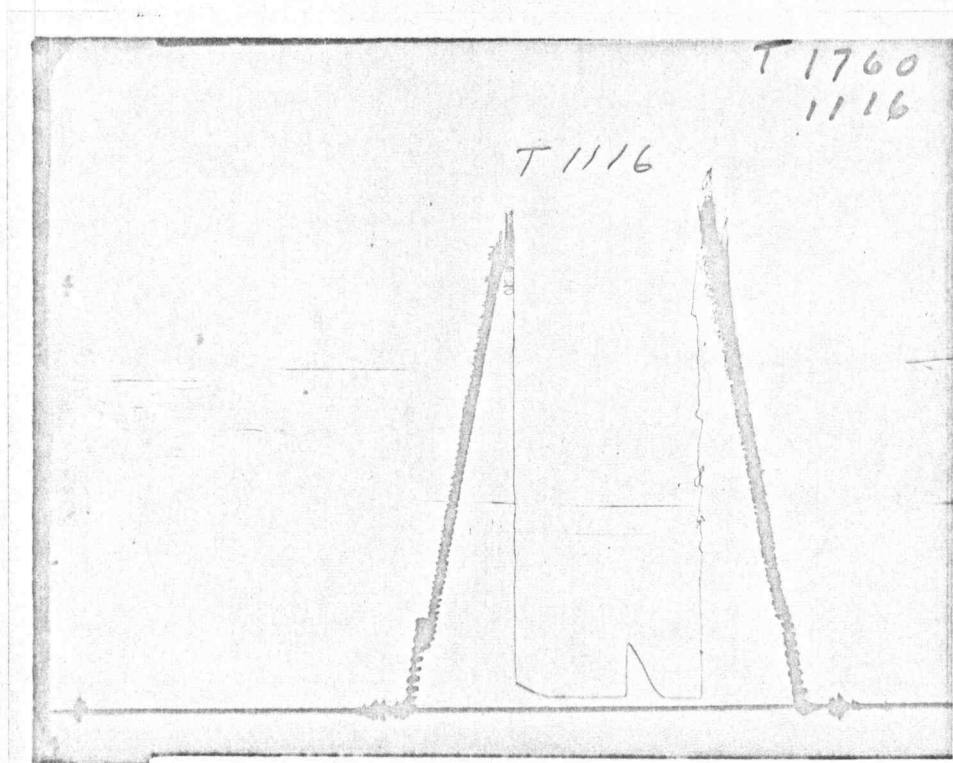
Recovery 120' gas

55' oil & gas cutmud w large free oil spots in top 10'

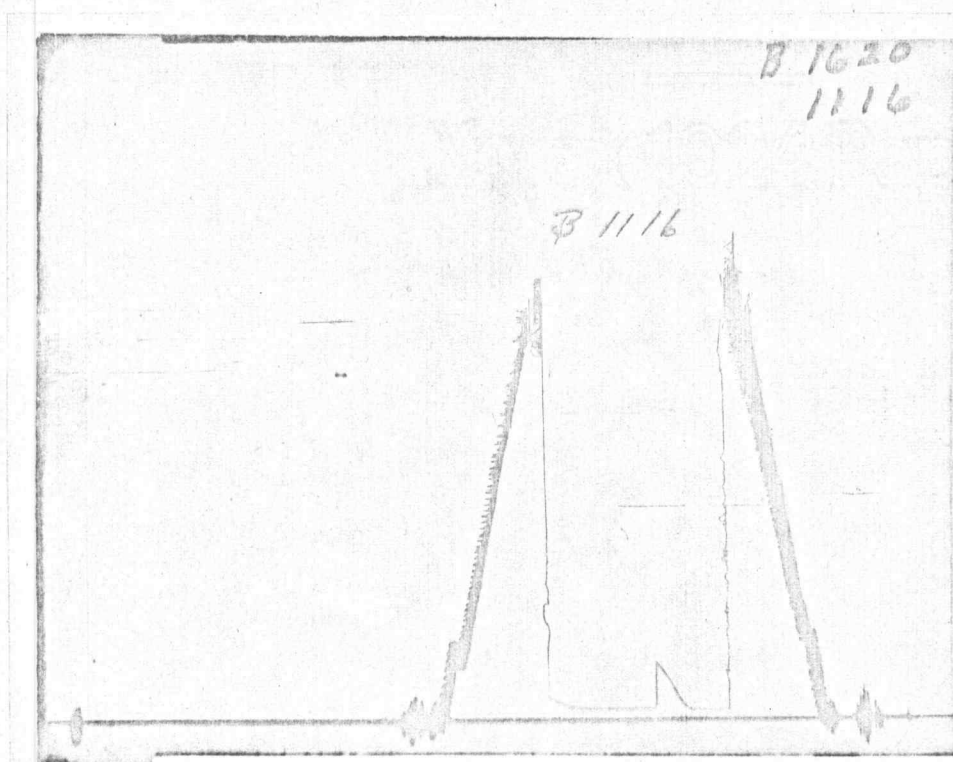
	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
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TEST NO. 2

TICKET NO. 1116



TOP



BOTTOM

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Smith	Well No.				1	Date	12/21/72	
County	Hodgeman	Sec.	7	Twp.	22s	Rng.	24w	Elevation	2442 K.B.
Company	Larry Stephenson							Test No.	3
Contractor	Red Tiger Drlg.							Zone Tested	Miss.
Charge To	Larry Stephenson							Ticket No.	1117
Approved By	Richard Foley							Tester	Blake

Recorder No. 1760 Depth 4572 Recorder No. 1620 Depth 4575

Initial Flow Press. 56 To 58 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 214 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 63 To 65 P.S.I. Final Flow Period 60 Min.

Final Shut-in Press. 130 P.S.I. Final Shut-in 30 Min.

Initial Hydro Mud Press. 2470 P.S.I. Final Hydro Mud Press. 2464 P.S.I.

Temperature 114

Mud Weight 9.6 Viscosity 47

Fluid Loss 6.4

Interval Tested 4530 To 4578

Damage Ratio

$$DR = \frac{.183 \text{ Ps} - \text{Pf}}{m}$$

Initial

Final

Top Packer Depth 4525 Surface Choke Size 5/8

Bottom Packer Depth 4530 Bottom Choke Size 5/8

Total Depth 4578 Main Hole Size 7 7/8

Drill Pipe Size 4 1/2 Wt Rubber Size 6 3/4

Drill Collar I.D. Ft. Run

Blow Fair 1st open Died 2nd open 25 min.

Recovery 120' gas

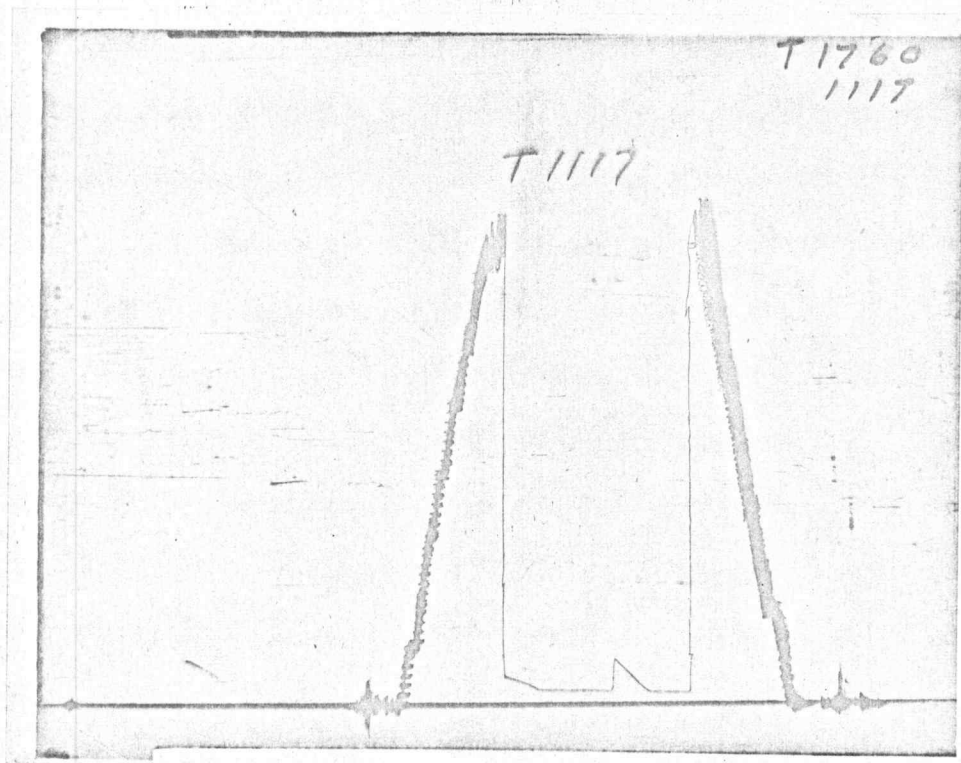
10' HOGCM with free oil

55' mud w slight oil cut

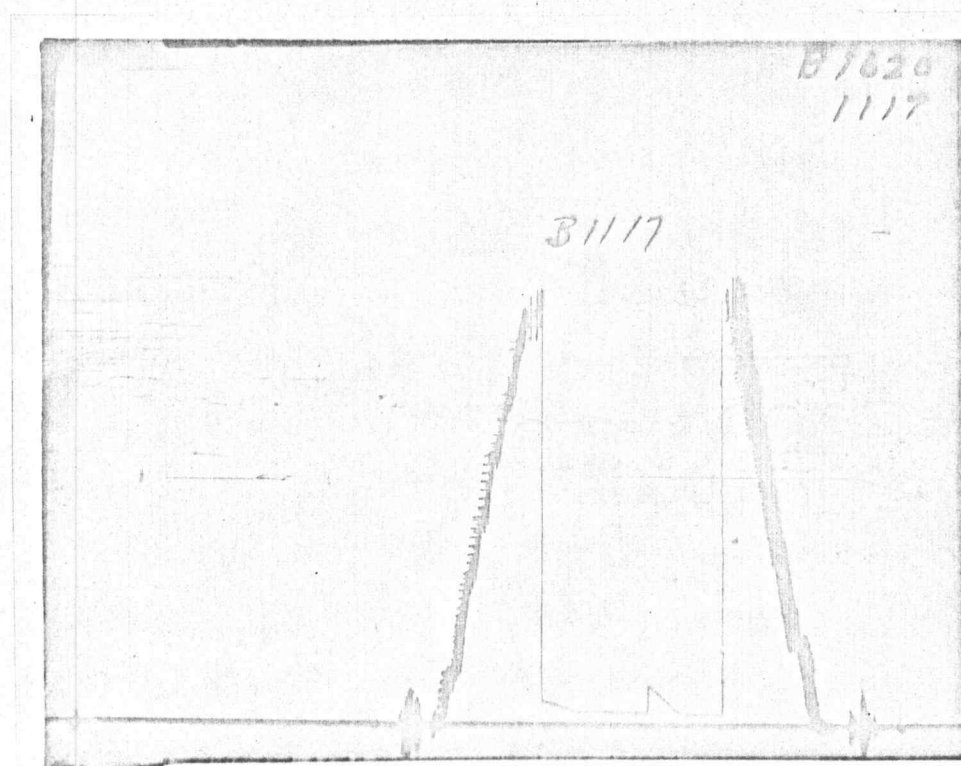
First Flow		Initial Shut-in		Second Flow		Final Shut-in	
Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.							
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TEST NO. 3

TICKET NO. 1117



TOP



BOTTOM

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Smith	Well No. 1				Date	12/21/72
County	Hodgeman	Sec. 7	Twp. 22s	Rng. 24w		Elevation	2442 K.B.
Company	Larry Stephenson					Test No.	4
Contractor	Red Tiger Drlg.					Zone Tested	Miss.
Charge To	Larry Stephenson					Ticket No.	1118
Approved By	Richared Foley					Tester	Blake

Recorder No. 1760 Depth 4576 Recorder No. 1620 Depth 4579

Initial Flow Press. 65 To 66 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 270 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 71 To 73 P.S.I. Final Flow Period 90 Min.

Final Shut-in Press. 133 P.S.I. Final Shut-in 30 Min.

Initial Hydro Mud Press. 2468 P.S.I. Final Hydro Mud Press. 2460 P.S.I.

Temperature 114

Mud Weight 9.6 Viscosity 47

Fluid Loss 6.4

Interval Tested 4532 To 4582

Damage Ratio

DR = $\frac{.183 \text{ Ps} - \text{Pf}}{\text{m}}$

Initial

Final

Top Packer Depth 4527 Surface Choke Size 5/8

Bottom Packer Depth 4532 Bottom Choke Size 5/8

Total Depth 4582 Main Hole Size 7 7/8

Drill Pipe Size 4 1/2 Wt Rubber Size ~~6 3/4~~ 6 3/4

Drill Collar I.D. Ft. Run

Blow Weak for 95 min.

Recovery 150' gas in pipe

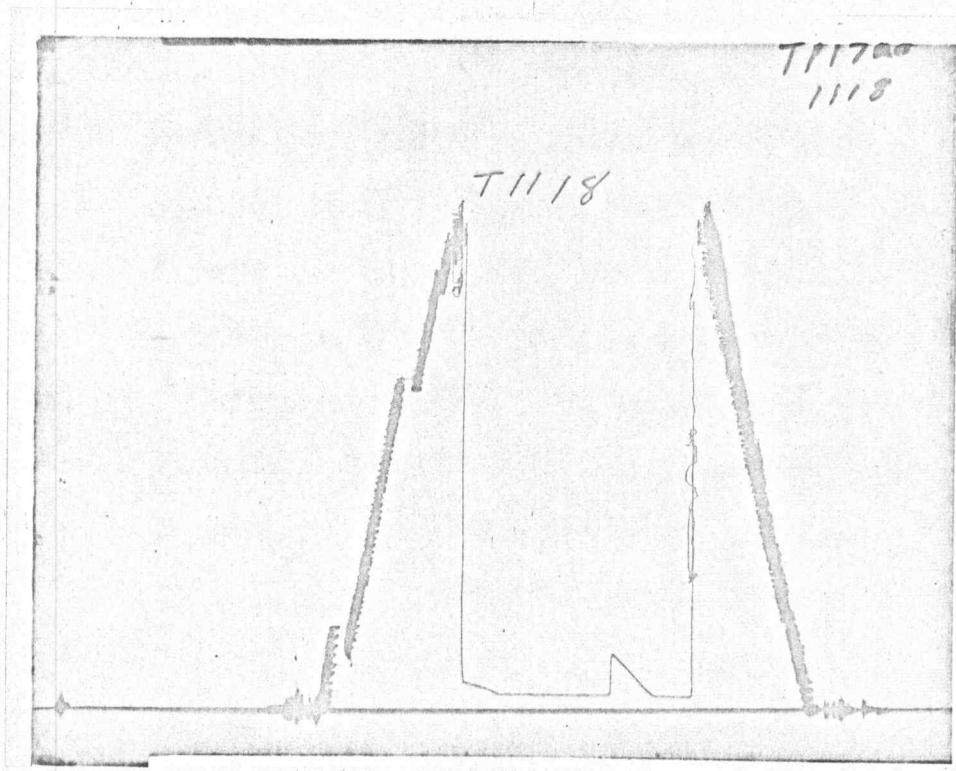
10' very heavy oil & gas cut mud with free oil spots

80' slight oil & gas cut mud Free oil in top of tool

First Flow		Initial Shut-in		Second Flow		Final Shut-in	
Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
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TEST NO. 4

TICKET NO. 1118



TOP



BOTTOM