

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Baker	Well No.	5	Date	1/13/73				
County	Ellsworth	Sec.	16	Twp.	14	Rng.	10	Elevation	
Company	Larry Stephenson			Test No.	1				
Contractor	Duke Drilling			Zone Tested	Tarkio				
Charge To	Larry Stephenson			Ticket No.	1166				
Approved By	Richard Foley			Tester	Bowman				

Recorder No. 3600 Depth 2099 Recorder No. 3400 Depth 2123

Initial Flow Press. 28 To 28 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 739 P.S.I. Initial Shut-in 60 Min.

Final Flow Press. 28 To 28 P.S.I. Final Flow Period 90 Min.

Final Shut-in Press. 707 P.S.I. Final Shut-in 60 Min.

Initial Hydro Mud Press. 1180 P.S.I. Final Hydro Mud Press. P.S.I.

Temperature 80

Mud Weight Viscosity

Fluid Loss

Interval Tested 2104 To 2125

Damage Ratio

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

Initial

Final

Top Packer Depth 2104 Surface Choke Size 5/8

Bottom Packer Depth ---- Bottom Choke Size 5/8

Total Depth 2125 Main Hole Size 7 7/8

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

Drill Collar I.D. Ft. Run

Blow Strong blow thruout test

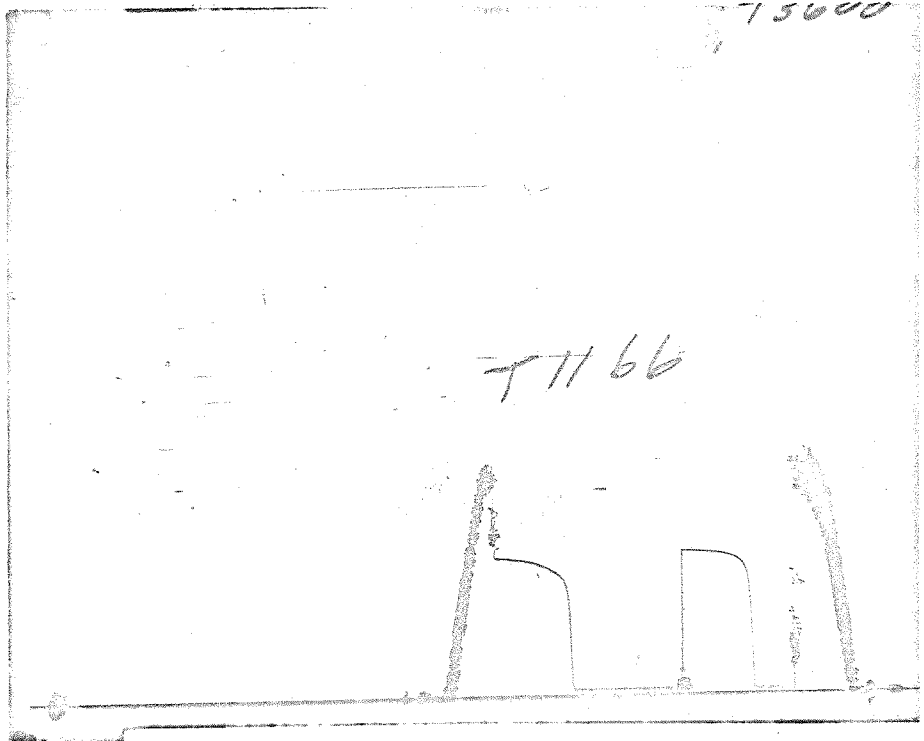
Recovery Gas to surface in 15 min. (T.S.T.M.)

20' gas cut mud

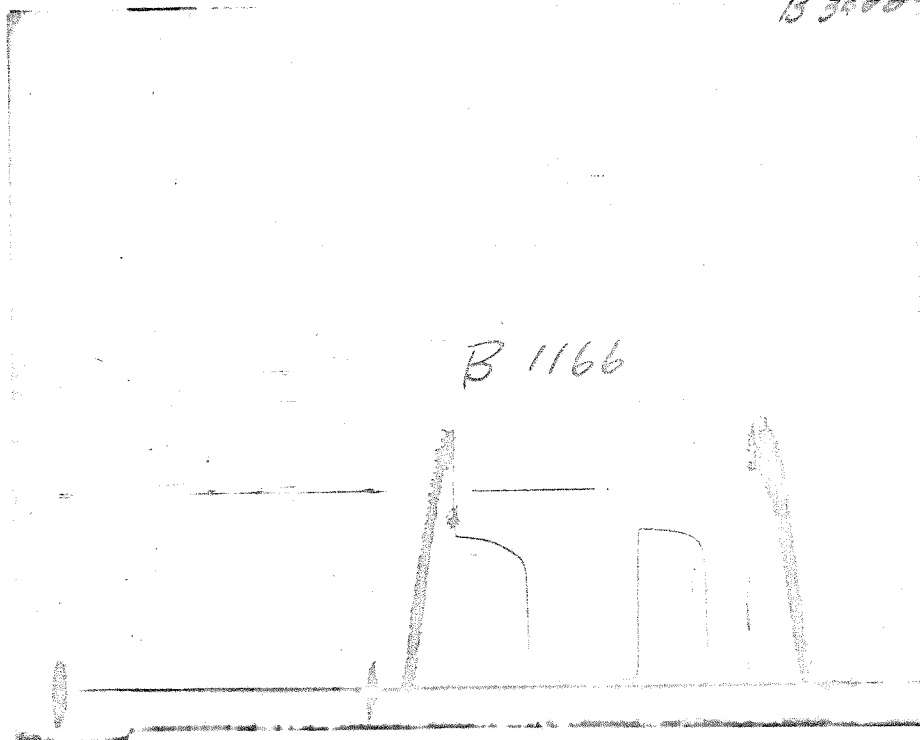
	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
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TEST NO. 1

TICKET NO. 1166



TOP



Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Baker	Well No.	5	Date	1/13/73
County	Ellsworth Sec. 16	Twp.	14 Rng. 10	Elevation	
Company	Larry Stephenson			Test No.	2
Contractor	Duke Drilling			Zone Tested	
Charge To	Larry Stephenson			Ticket No.	1167
Approved By	Richard M Foley			Tester	Bowman

Recorder No. 3600 Depth 2180 Recorder No. 3400 Depth 2243

Initial Flow Press. 28 To 37 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 425 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 49 To 59 P.S.I. Final Flow Period 60 Min.

Final Shut-in Press. 165 P.S.I. Final Shut-in 30 Min.

Initial Hydro Mud Press. 1263 P.S.I. Final Hydro Mud Press. P.S.I.

Temperature 88

Mud Weight 10 Viscosity 37

Fluid Loss

Interval Tested 2185 To 2245

Damage Ratio

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

Initial

Final

Top Packer Depth 2185 Surface Choke Size 5/8

Bottom Packer Depth --- Bottom Choke Size 5/8

Total Depth 2245 Main Hole Size X 7 7/8

Drill Pipe Size Wt Rubber Size 6 3/4

Drill Collar I.D. Ft. Run

Blow Weak blow thruout test

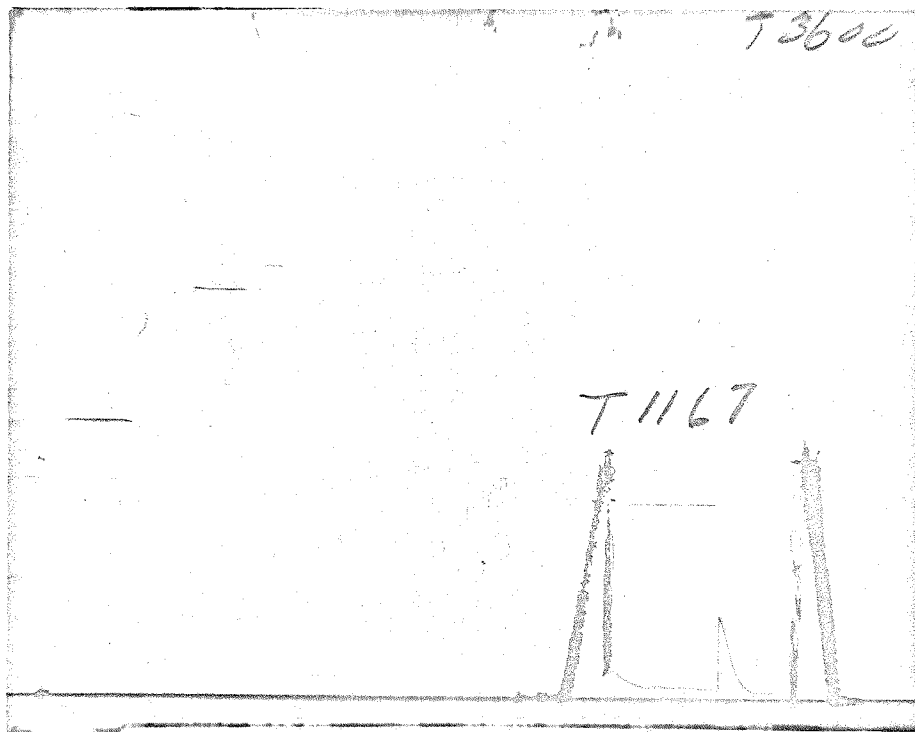
Recovery 60' gas in pipe

70' gas cut mud

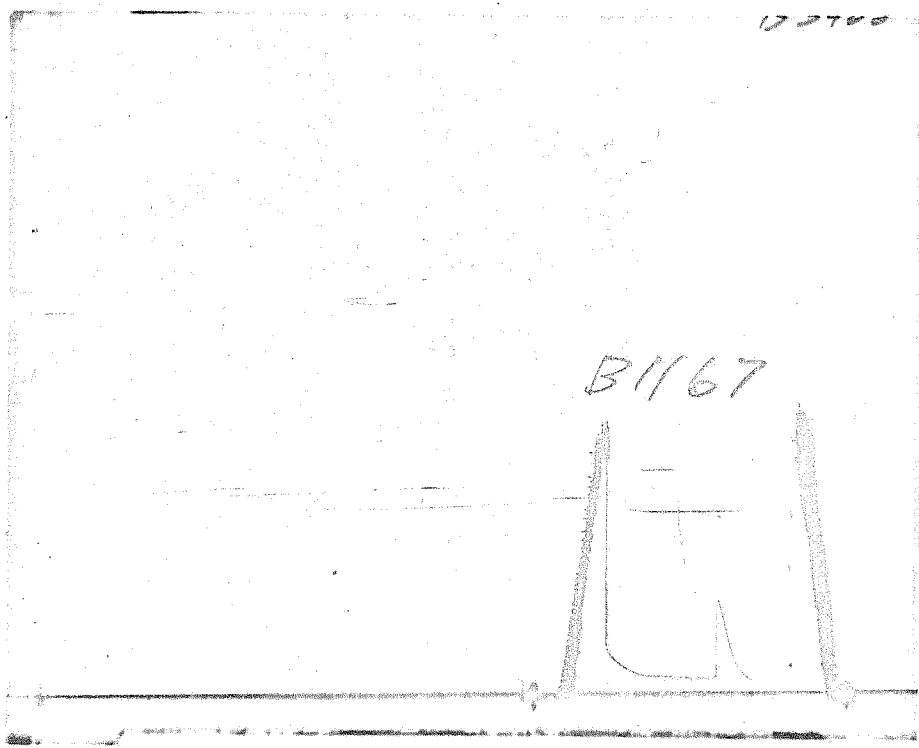
	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
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TEST NO. 2

TICKET NO. 1167



TOP



Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Baker	Well No.	5	Date	1/14/73
County	Ellsworth	Sec. 16	Twp. 14	Rng. 10	Elevation
Company	Larry Stephenson			Test No.	3
Contractor	Duke Drilling			Zone Tested	Topeka
Charge To	Larry Stephenson			Ticket No.	1168
Approved By	Richard M Foley			Tester	Bowman

Recorder No. 3600 Depth 2456 Recorder No. 3400 Depth ~~24~~ 2483

Initial Flow Press. 24 To 25 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 196 P.S.I. Initial Shut-in 60 Min.

Final Flow Press. 30 To 33 P.S.I. Final Flow Period 150 Min.

Final Shut-in Press. 114 P.S.I. Final Shut-in 60 Min.

Initial Hydro Mud Press. 1521 P.S.I. Final Hydro Mud Press. P.S.I.

Temperature 92

Mud Weight 10 Viscosity 37

Fluid Loss

Interval Tested 2461 To 2485

Damage Ratio

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

Initial

Final

Top Packer Depth 2461 Surface Choke Size 5/8

Bottom Packer Depth Bottom Choke Size

Total Depth 2485 Main Hole Size 7 7/8

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

Drill Collar I.D. Ft. Run

Blow Good blow thruout test

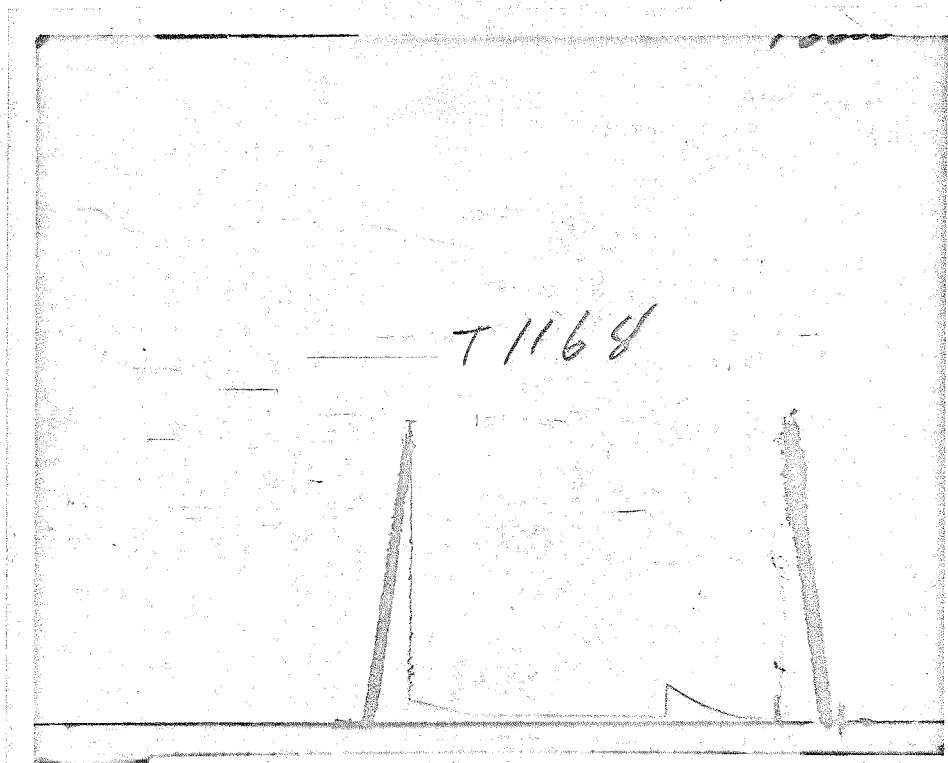
Recovery 420' gas in pipe

60' sli. oil cut mud

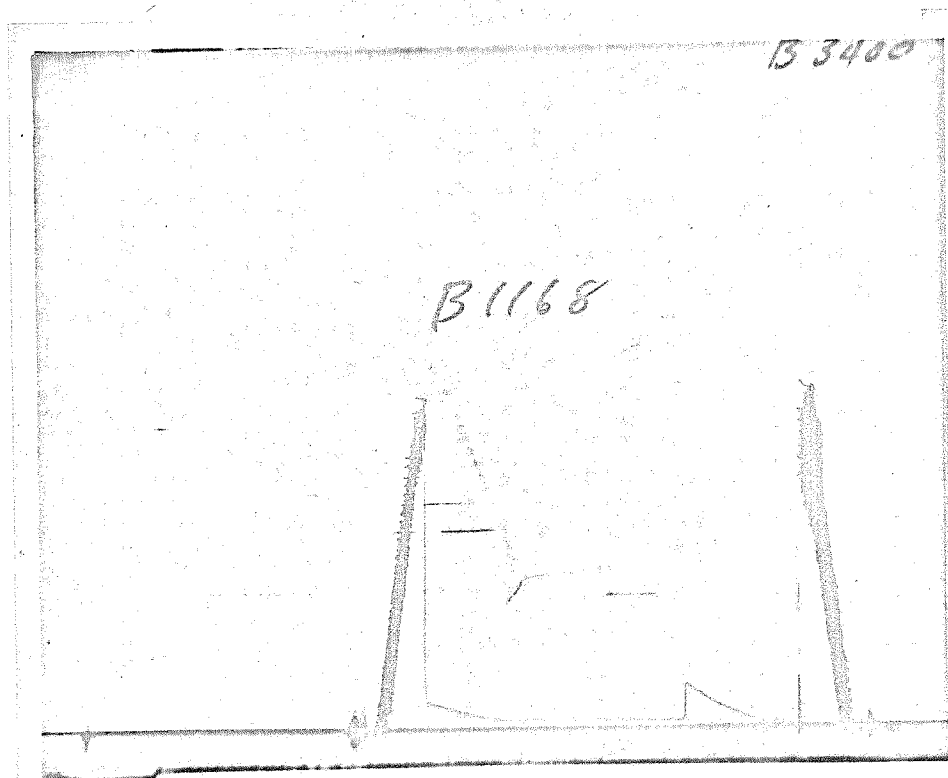
	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
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TEST NO. 3

TICKET NO. 1168



TOP



Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Baker	Well No.	5	Date	1/16/73				
County	Ellsworth	Sec.	16	Twp.	14	Rng.	10	Elevation	
Company	Larry Stephenson				Test No.	4			
Contractor	Duke Drilling				Zone Tested	K.C.			
Charge To	Larry Stephenson				Ticket No.	1169			
Approved By	Richard M. Foley				Tester	Bowman			

Recorder No. 3600 Depth 2835 Recorder No. 3400 Depth 2878

Initial Flow Press. 29 To 34 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 781 P.S.I. Initial Shut-in 60 Min.

Final Flow Press. 44 To 65 P.S.I. Final Flow Period 90 Min.

Final Shut-in Press. 740 P.S.I. Final Shut-in 60 Min.

Initial Hydro Mud Press. 1678 P.S.I. Final Hydro Mud Press. 1670 P.S.I.

Temperature 92

Mud Weight 10 Viscosity 46

Fluid Loss

Interval Tested 2840 To 2880

Damage Ratio

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

Initial

Final

Top Packer Depth 2840 Surface Choke Size 5/8

Bottom Packer Depth Bottom Choke Size 5/8

Total Depth 2880 Main Hole Size 7 7/8

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

Drill Collar I.D. Ft. Run

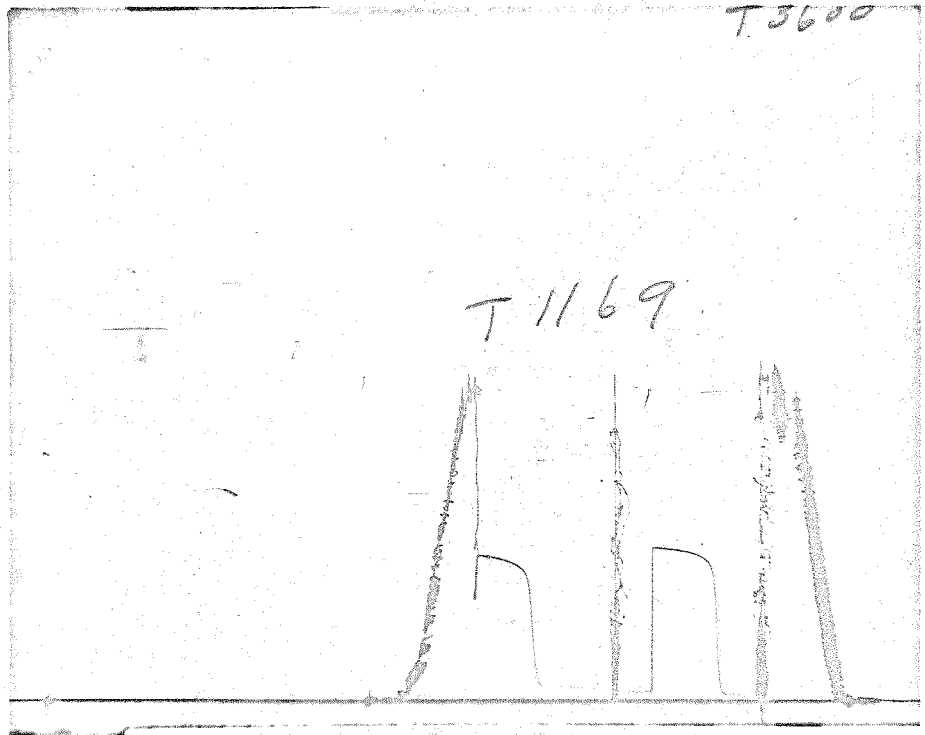
Blow No blow - head broke

Recovery 120' thin watery mud, scum of oil on top of tool

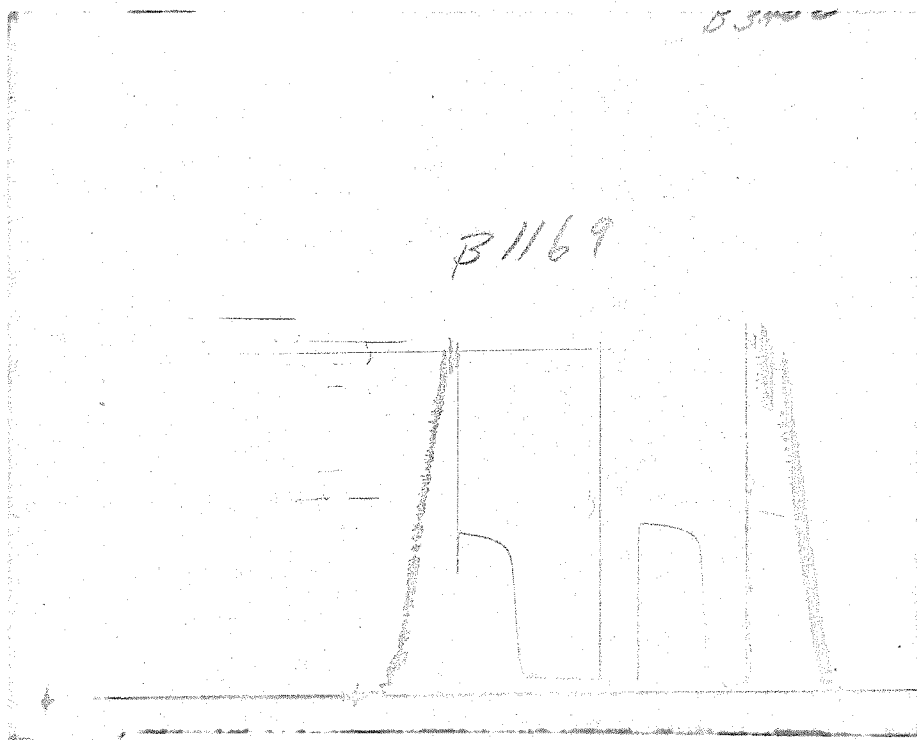
	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
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TEST NO. 4

TICKET NO. 1169



TOP



Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Baker	Well No.	5	Date	1/17/73
County	Ellsworth Sec. 16	Twp. 14	Rng. 10	Elevation	
Company	Lary Stepheonson	Test No.	5		
Contractor	Duke Drilling	Zone Tested	K.C.		
Charge To	Lary Stephenson	Ticket No.	1170		
Approved By	Richard M. Foley	Tester	Bowman		

Recorder No. 3600 Depth 2931 Recorder No. 3400 Depth

Initial Flow Press. 9 To 9 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 9 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 9 To 9 P.S.I. Final Flow Period 60 Min.

Final Shut-in Press. 9 P.S.I. Final Shut-in 30 Min.

Initial Hydro Mud Press. ~~XXXX~~ 1714 P.S.I. Final Hydro Mud Press. 1710 P.S.I.

Temperature 93

Mud Weight 10 Viscosity 41

Fluid Loss

Interval Tested 2936 To 2943

Damage Ratio

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

Initial

Final

Top Packer Depth 2936 Surface Choke Size 5/8

Bottom Packer Depth --- Bottom Choke Size 5/8

Total Depth 2943 Main Hole Size 7 7/8

Drill Pipe Size Wt Rubber Size 6 3/4

Drill Collar I.D. Ft. Run

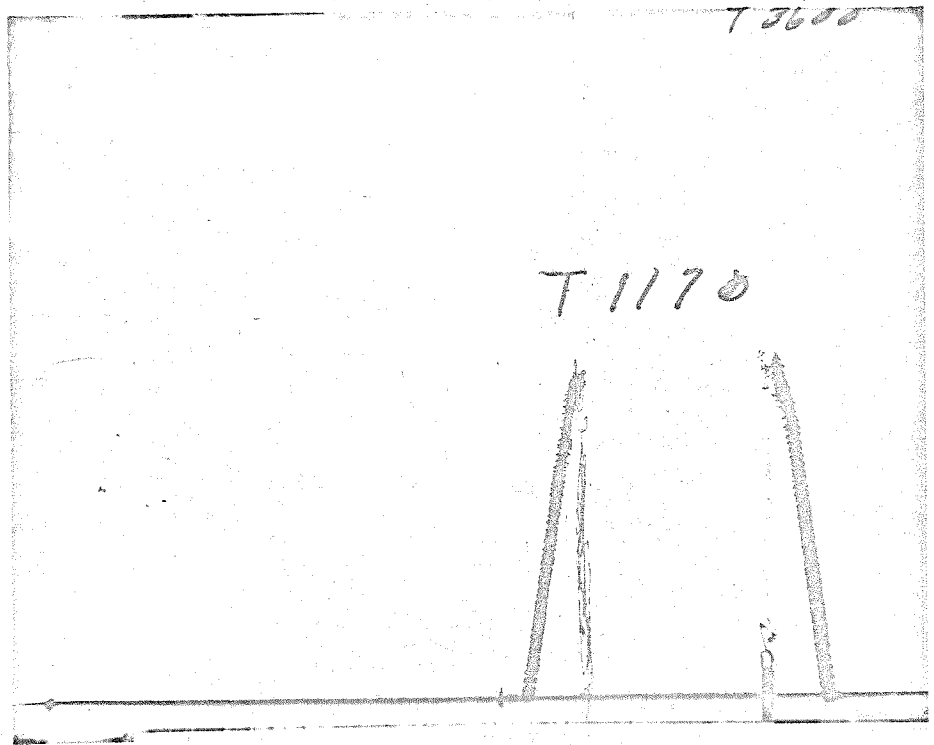
Blow Very weak blow - dead in 2 15 min. on initial

Recovery 5' muddy water

	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
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TEST NO. 5

TICKET NO. 1170



TOP

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Baker	Well No.	5	Date	1/17/73
County	Ellsworth Sec. 16	Twp. 14	Rng. 10	Elevation	
Company	Larry Stephenson	Test No.	6	Zone Tested	K.C.
Contractor	Duke Drilling	Ticket No.	1171	Tester	Bowman
Charge To	Larry Stephenson				
Approved By	Richard M. Foley				

Recorder No. 3600 Depth 2932 Recorder No. 3400 Depth 2950

Initial Flow Press. 16 To 16 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 470 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 24 To 24 P.S.I. Final Flow Period 60 Min.

Final Shut-in Press. 435 P.S.I. Final Shut-in 30 Min.

Initial Hydro Mud Press. 1678 P.S.I. Final Hydro Mud Press. 1670 P.S.I.

Temperature 98

Mud Weight 10 Viscosity 37

Fluid Loss

Interval Tested 2937 To 2952

Damage Ratio

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

Initial

Final

Top Packer Depth 2937 Surface Choke Size 5/8

Bottom Packer Depth ---- Bottom Choke Size 5/8

Total Depth 2952 Main Hole Size 7 7/8

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

Drill Collar I.D. Ft. Run

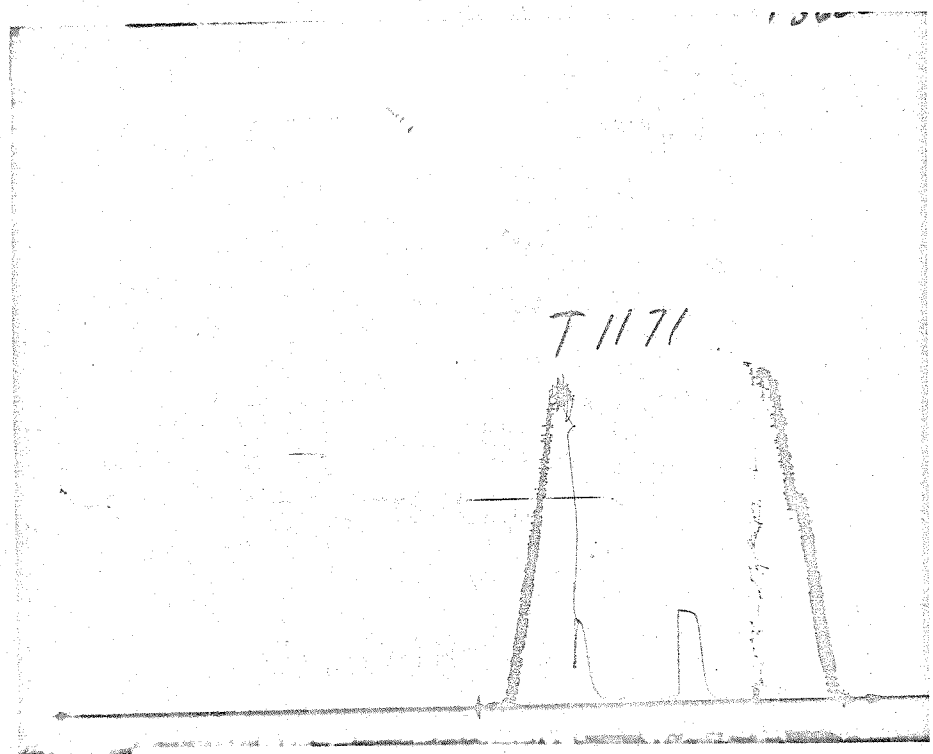
Blow ~~XXX~~ Very weak blow - dead in 30 min.

Recovery 10' muddy water

	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
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TEST NO. 6

TICKET NO. 1171



TOP

