

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Putnam	Well No.	5	Date	3-24-80
County	Barton	Sec.	1	Elevation	1981DF
		Twp.	17		
		Rng.	14	Test No.	1
Company	L. G. Stephenson			Zone Tested	Lansing
Contractor	Red Tiger #4			Ticket #	3677
Charge To	L. G. Stephenson			Tester	Steve Jenkins
Approved By	James W. Spellman				

Initial Hydro Mud Press. 1773 P.S.I.

Initial Flow Press. 59 To 47 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 224 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 59 To 42 P.S.I. Final Flow Period 30 Min.

Final Shut-in Press. 118 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1761 P.S.I. TIME TOOL OPEN 2:00 p.m.

Temperature 102

Mud Weight 10.2 Viscosity 57

Fluid Loss 10.6

Interval Tested 3223 To 3263

Top Packer Depth 3218 Surface Choke Size

Bottom Packer Depth 3223 Bottom Choke Size 5/8

Total Depth 3263 Main Hole Size 7 7/8

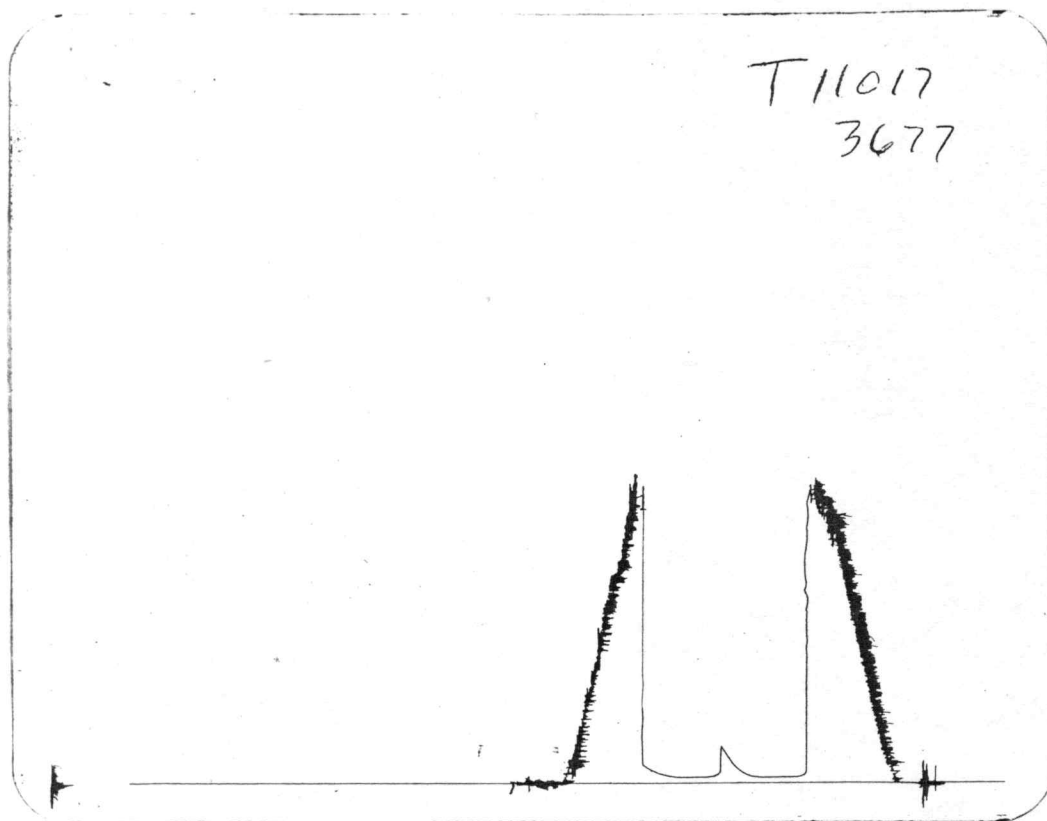
Drill Pipe Size 4 1/2 XH Wt 4 1/2 XH Rubber Size 6 3/4

Drill Collar I.D. 2.25 Ft. Run None

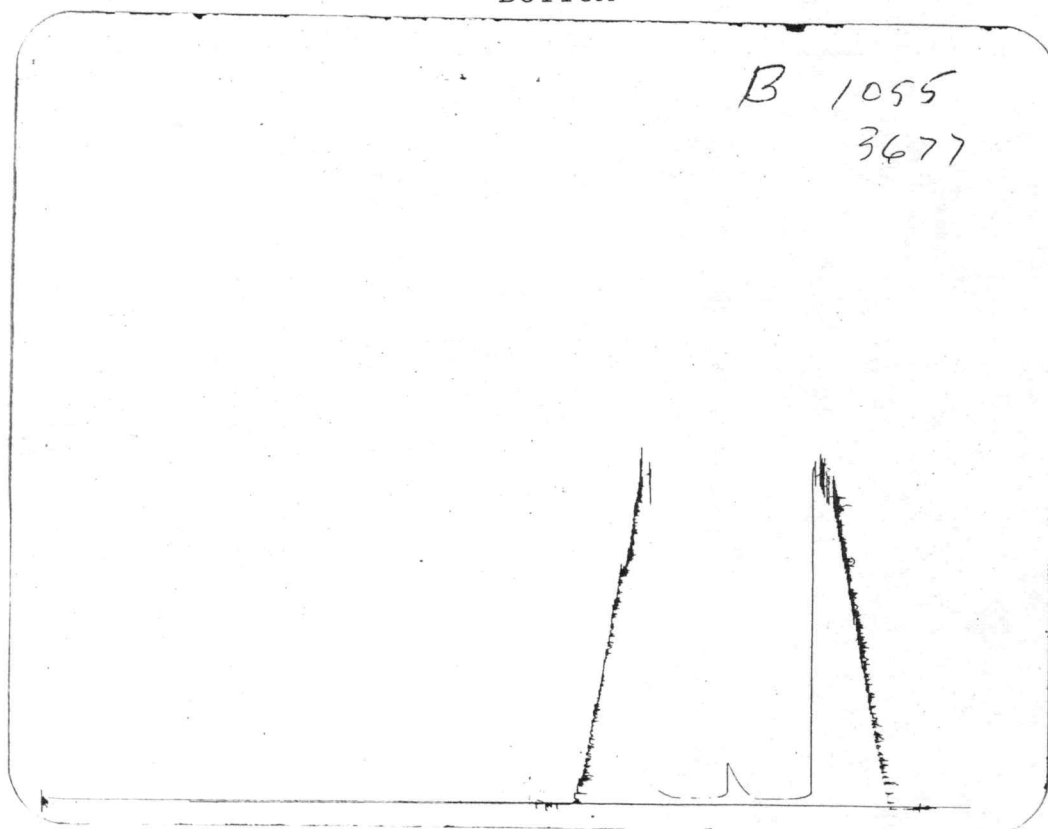
Blow 1st Opening: Very weak blow 2nd Opening: No blow

Recovery 30' mud

TOP



BOTTOM



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Lease	Putnam	Well No.	5	Date	3-25-80
County	Barton	Sec.	1	Twp.	17
		Rng.	14	Elevation	1981 DF
Company	L. G. Stephenson			Test No.	2
Contractor	Red Tiger #4			Zone Tested	Lansing
Charge To	L.G. Stephenson			Ticket #	3678
Approved By	James W. Spellman			Tester	Steve Jenkins

Initial Hydro Mud Press. 1737 P.S.I.

Initial Flow Press. 59 To 35 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 101 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 47 To 35 P.S.I. Final Flow Period 30 Min.

Final Shut-in Press. 82 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1725 P.S.I. TIME TOOL OPEN 4:30 a.m.

Temperature 103

Mud Weight 10.2 Viscosity 47

Fluid Loss 10.6

Interval Tested 3270 To 3305

Top Packer Depth 3265 Surface Choke Size _____

Bottom Packer Depth 3270 Bottom Choke Size 5/8

Total Depth 3305 Main Hole Size 7 7/8

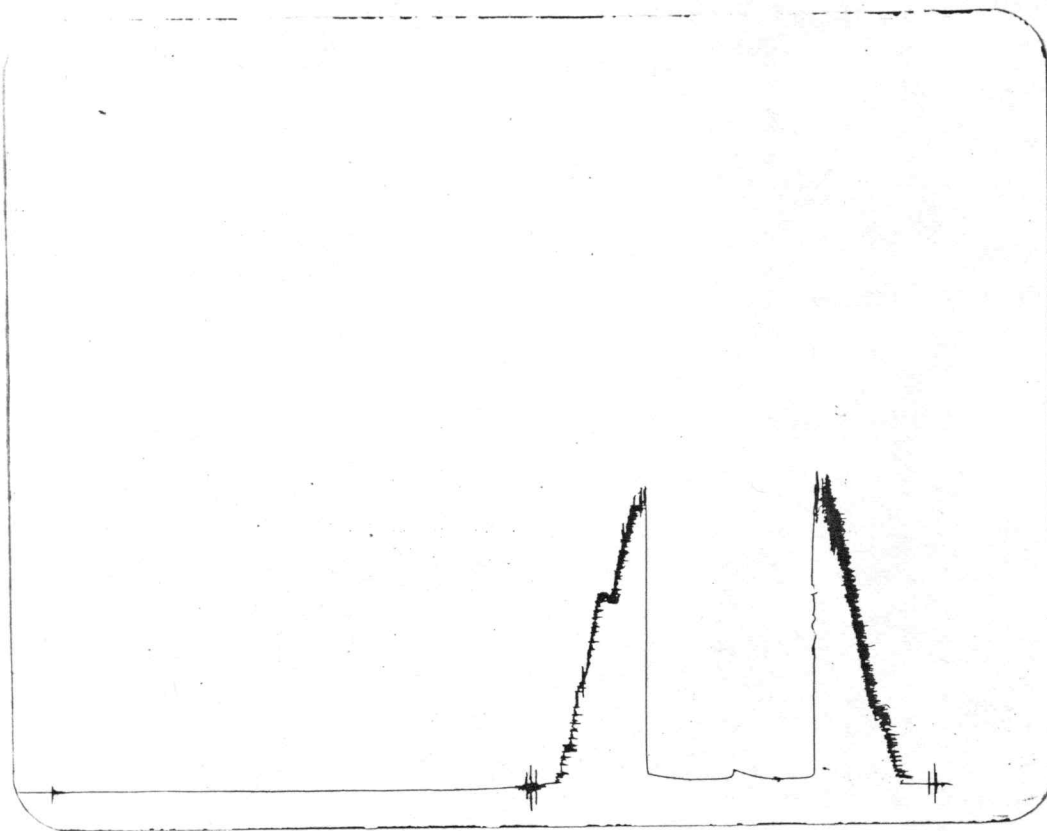
Drill Pipe Size 4 1/2 XH Wt 4 1/2 XH Rubber Size 6 3/4

Drill Collar I.D. 2.25 Ft. Run None

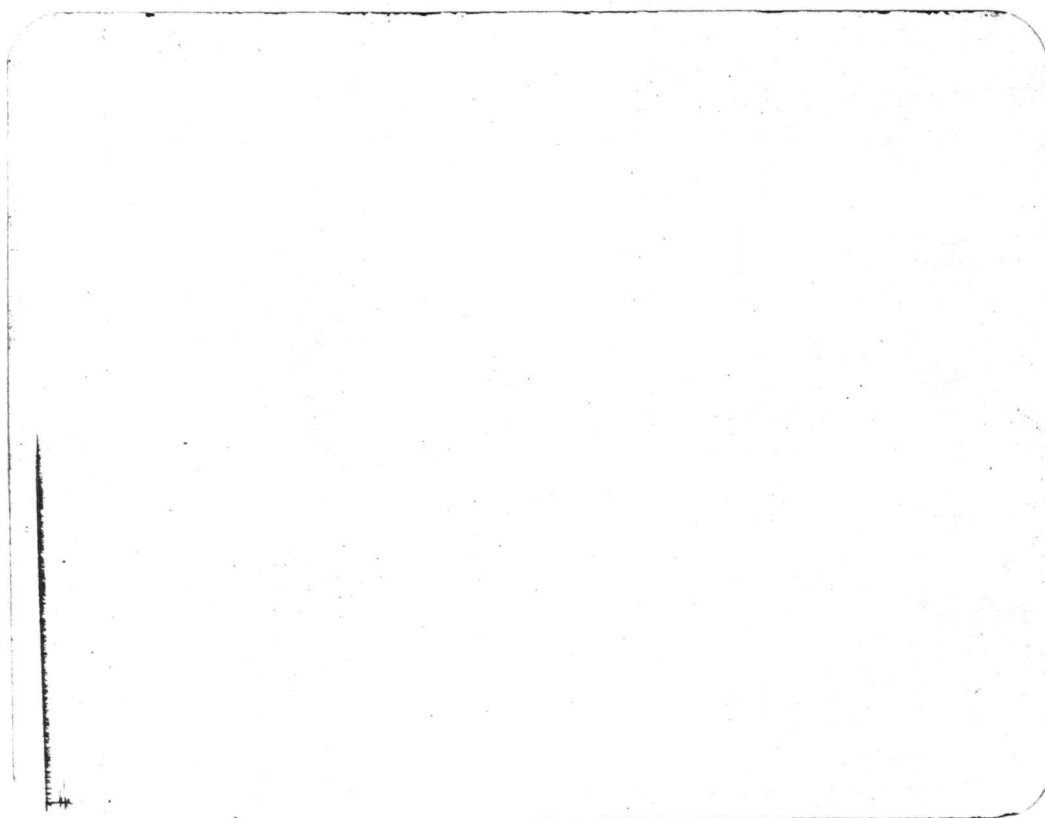
Blow 1st Opening: Weak blow decreasing to blow on surface of bucket
2nd Opening: no blow

Recovery 20' mud

TOP



BOTTOM



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DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Putnam	Well No.	5	Date	3-26-80
County	Barton	Sec. 1	Twp. 17	Rng. 14	Elevation 1981 DF
Company	L. G. Stephenson				Test No. 3
Contractor	Red Tiger #4				Zone Tested KC
Charge To	L. G. Stephenson				Ticket # 3679
Approved By	James W. Spellman				Tester Steve Jenkins

Initial Hydro Mud Press. 1843 P.S.I.

Initial Flow Press. 89 To 165 P.S.I. Initial Flow Period 60 Min.

Initial Shut-in Press. 945 P.S.I. Initial Shut-in 45 Min.

Final Flow Press. 200 To 255 P.S.I. Final Flow Period 60 Min.

Final Shut-in Press. 921 P.S.I. Final Shut-in 45 Min.

Final Hydro Mud Press. 1832 P.S.I. TIME TOOL OPEN 3:45 a.m.

Temperature 104

Mud Weight 9.8 Viscosity 47

Fluid Loss 17.0

Interval Tested 3348 To 3425

Top Packer Depth 3343 Surface Choke Size

Bottom Packer Depth 3348 Bottom Choke Size 5/8

Total Depth 3425 Main Hole Size 7 7/8

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

Drill Collar I.D. 2.25 Ft. Run None

Blow 1st Opening: Weak to strong blow in 5 min.

2nd Opening: Strong blow

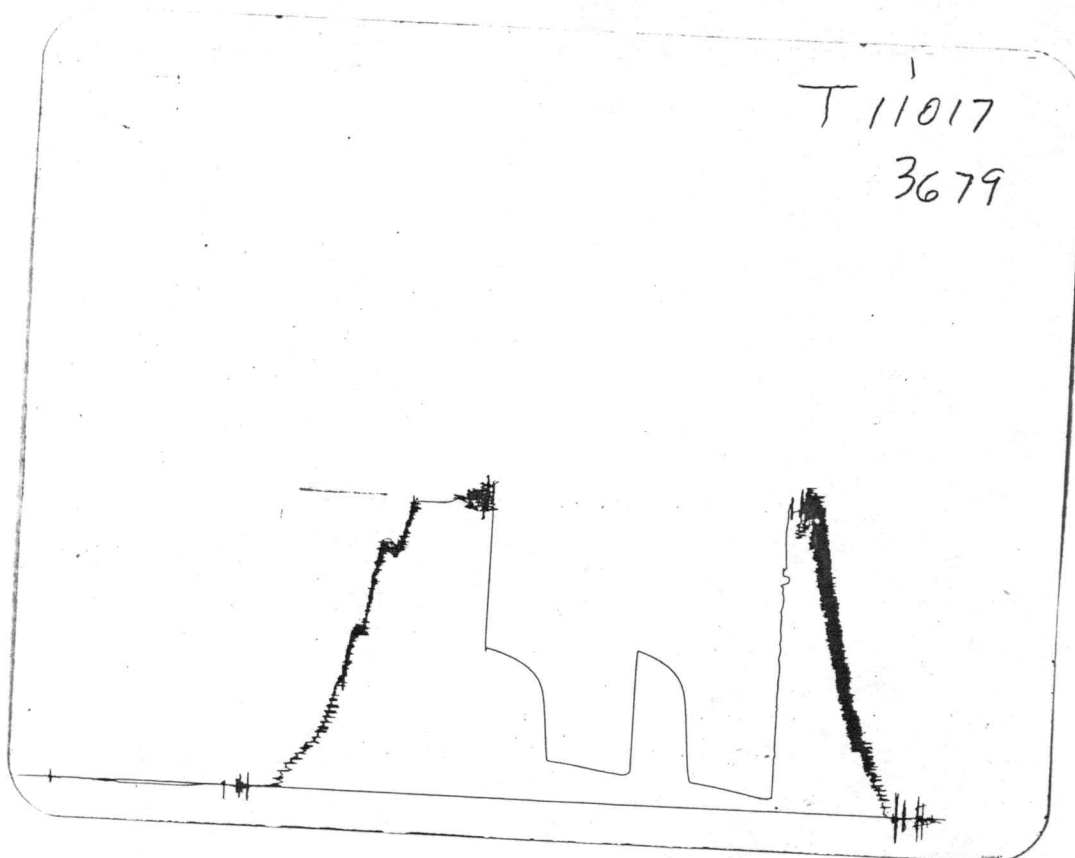
Recovery 62' very slightly oil & gas cut mud

62' heavy oil & gas cut mud

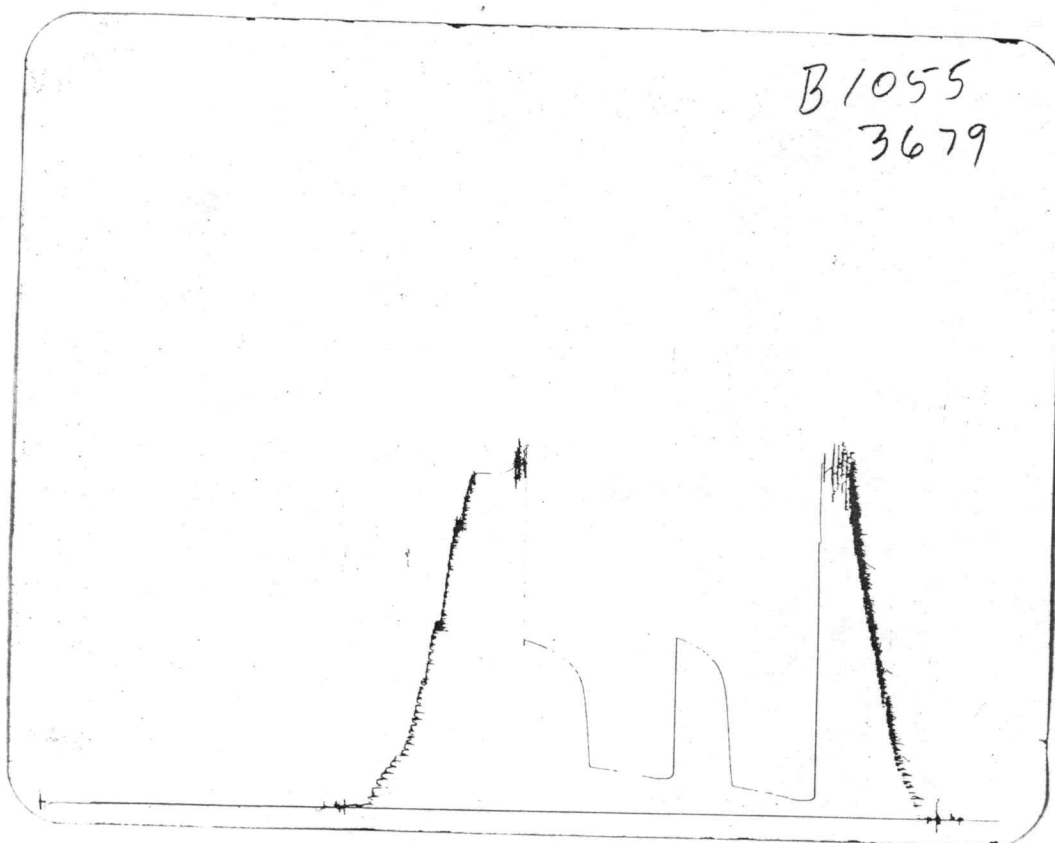
62' very gassy muddy oil

310' frothy oil 496' total fluid

TOP



BOTTOM



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Lease	Putnam	Well No.	5	Date	3-26-80
County	Barton	Sec.	1	Twp.	17
		Rng.	1		4
Company	L.G. Stephenson			Test No.	4
Contractor	Red Tiger #4			Zone Tested	Arbuckle
Charge To	L.G. Stephenson			Ticket #	3680
Approved By	James W. spellman			Tester	Steve Jenkins

Initial Hydro Mud Press. 1903 P.S.I.

Initial Flow Press. 59 To 42 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 373 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 59 To 30 P.S.I. Final Flow Period 30 Min.

Final Shut-in Press. 224 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1891 P.S.I. TIME TOOL OPEN 9:15 p.m.

Temperature 105

Mud Weight 10.0 Viscosity 48

Fluid Loss 10.8

Interval Tested 3425 To 3470

Top Packer Depth 3420 Surface Choke Size

Bottom Packer Depth 3425 Bottom Choke Size 5/8

Total Depth 3470 Main Hole Size 7 7/8

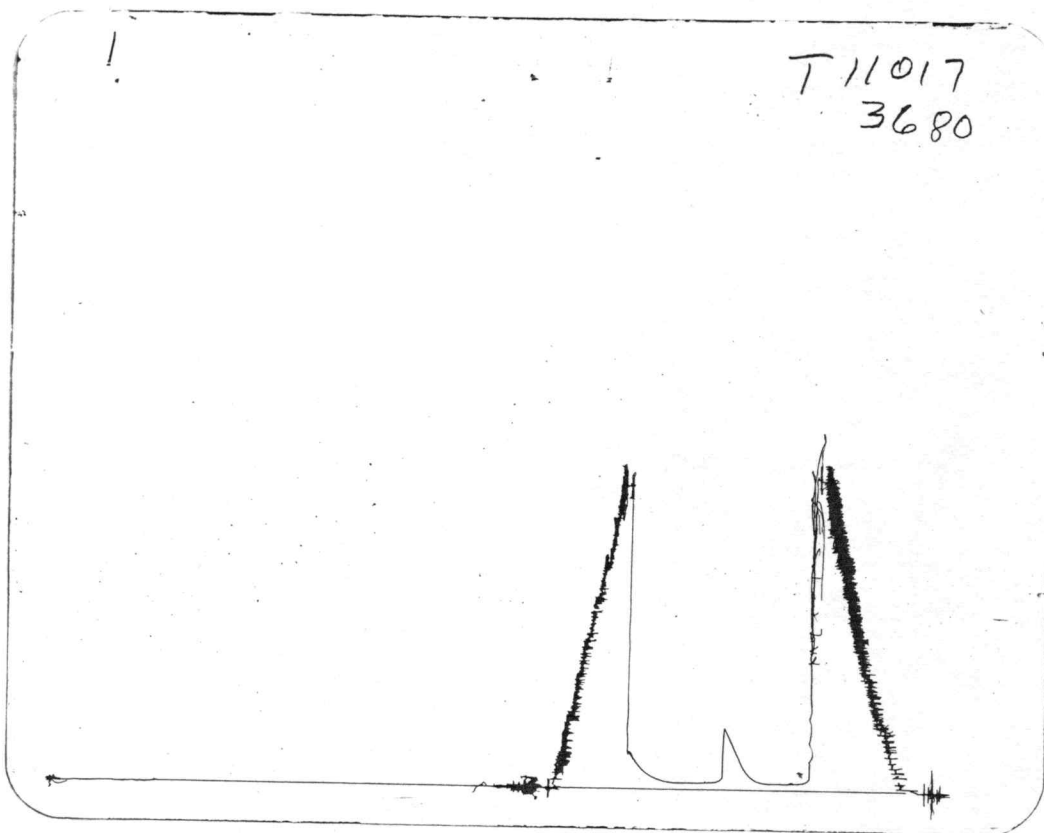
Drill Pipe Size 4 1/2 XH Wt 4 1/2 XH Rubber Size 6 3/4

Drill Collar I.D. 2.25 Ft. Run None

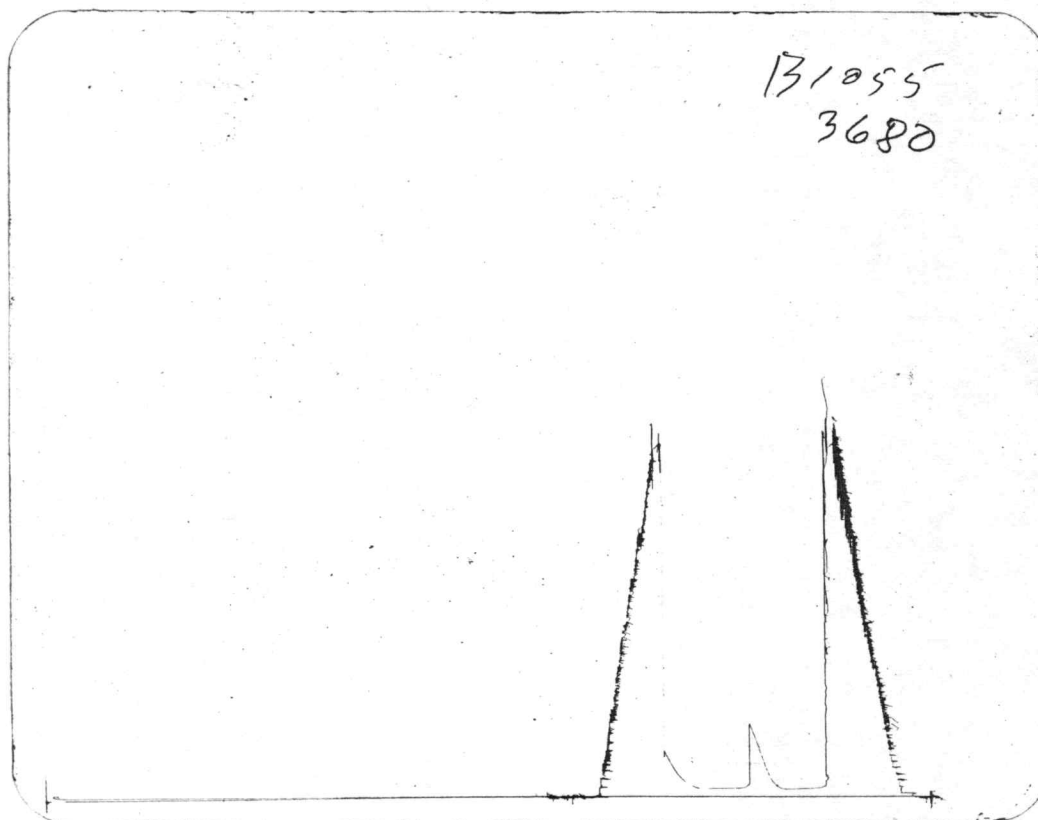
Blow 1st Opening: Very weak blow 2nd opening: No blow

Recovery 10' mud-oil spotted

TOP



BOTTOM



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Great Bend, Kansas 67530

Lease	Putnam	Well No.	5	Date	3-27-80	
County	Barton	Sec.	1	Twp.	17	
				Rng.	14	
Company	L.G. Stephenson				Test No.	5
Contractor	Red Tiger #4				Zone Tested	Arbuckle
Charge To	L. G. Stephenson				Ticket #	3681
Approved By	James W. Spellman				Tester	Steve Jenkins

Initial Hydro Mud Press. 1877 P.S.I.

Initial Flow Press. 72 To 51 P.S.I. Initial Flow Period 45 Min.

Initial Shut-in Press. 888 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 88 To 57 P.S.I. Final Flow Period 45 Min.

Final Shut-in Press. 836 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1867 P.S.I. TIME TOOL OPEN

Temperature 107

Mud Weight 10.0 Viscosity 43

Fluid Loss 10.8

Interval Tested 3428 To 3478

Top Packer Depth 3423 Surface Choke Size

Bottom Packer Depth 3428 Bottom Choke Size 5/8

Total Depth 3478 Main Hole Size 7 7/8

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

Drill Collar I.D. 2.25 Ft. Run None

Blow 1st Opening: Weak blow (1 1/2")

2nd Opening: Very weak blow (surface) blow died in 40 min.

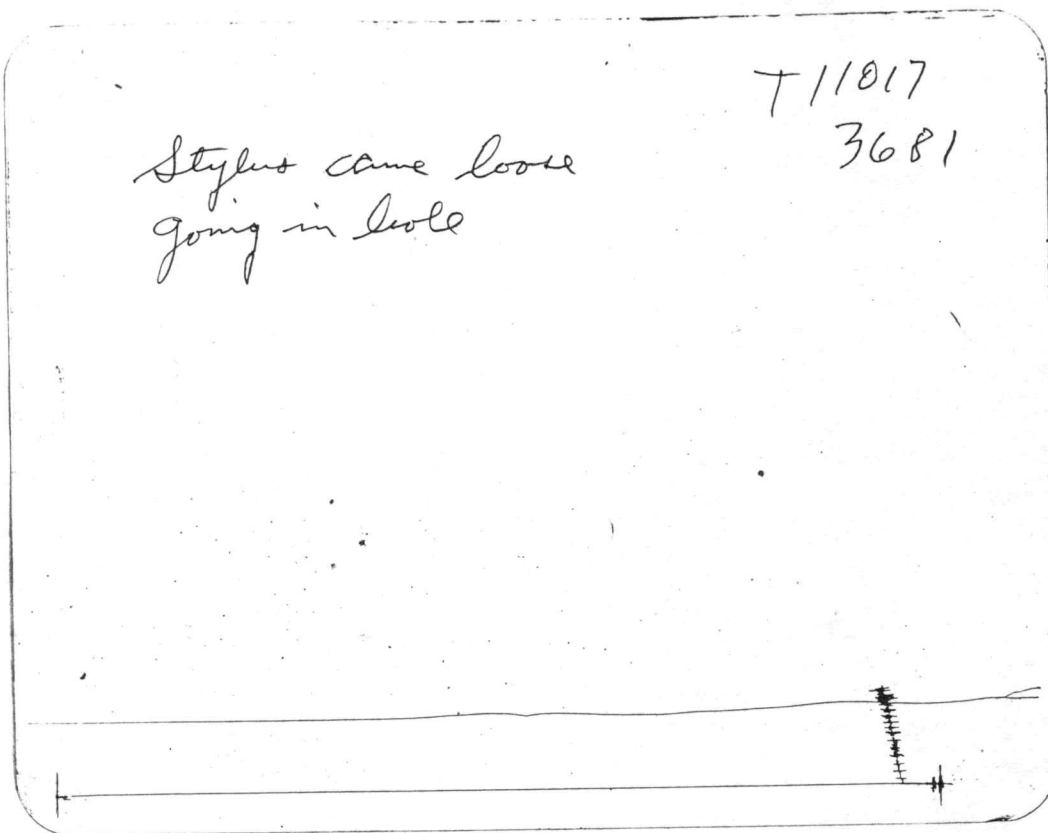
Recovery 20' slightly oil cut mud

TOP

T11017

3681

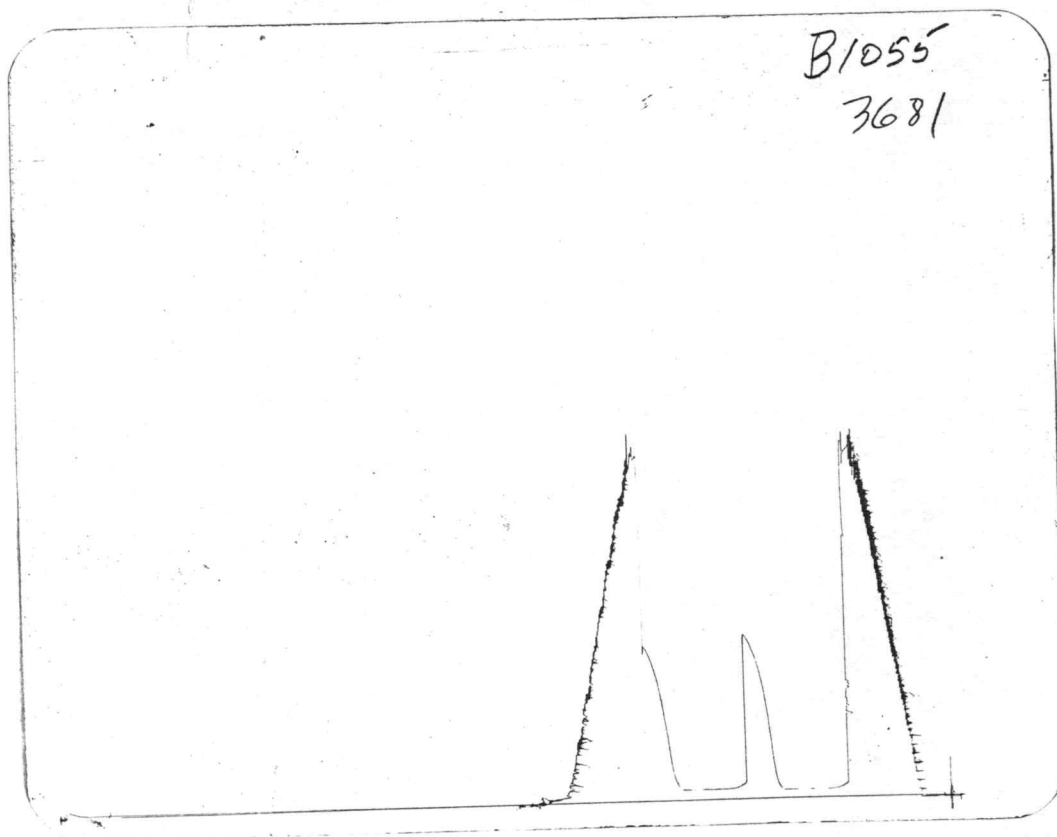
Stylus came loose
going in hole



BOTTOM

B1055

3681



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County	Barton	Sec.	1	Twp.	17
		Rng.	14	Elevation	1981 DF
Company	L. G. Stephenson			Test No.	6
Contractor	Red Tiger #4			Zone Tested	Arbuckle
Charge To	L.G. Stephenson			Ticket #	3682
Approved By	James W. Spellman			Tester	Steve Jenkins

Initial Hydro Mud Press. 1946 P.S.I.

Initial Flow Press. 70 To 53 P.S.I. Initial Flow Period 45 Min.

Initial Shut-in Press. 1080 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 96 To 75 P.S.I. Final Flow Period 45 Min.

Final Shut-in Press. 1080 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1935 P.S.I. TIME TOOL OPEN 6:20 p.m.

Temperature 107

Mud Weight 10.0 Viscosity 43

Fluid Loss 13.2

Interval Tested 3427 To 3484

Top Packer Depth 3422 Surface Choke Size

Bottom Packer Depth 3427 Bottom Choke Size 5/8

Total Depth 3484 Main Hole Size 7 7/8

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

Drill Collar I.D. 2.25 Ft. Run None

Blow 1st Opening: Weak blow (1" increasing to 2")

2nd Opening: 2" Blow

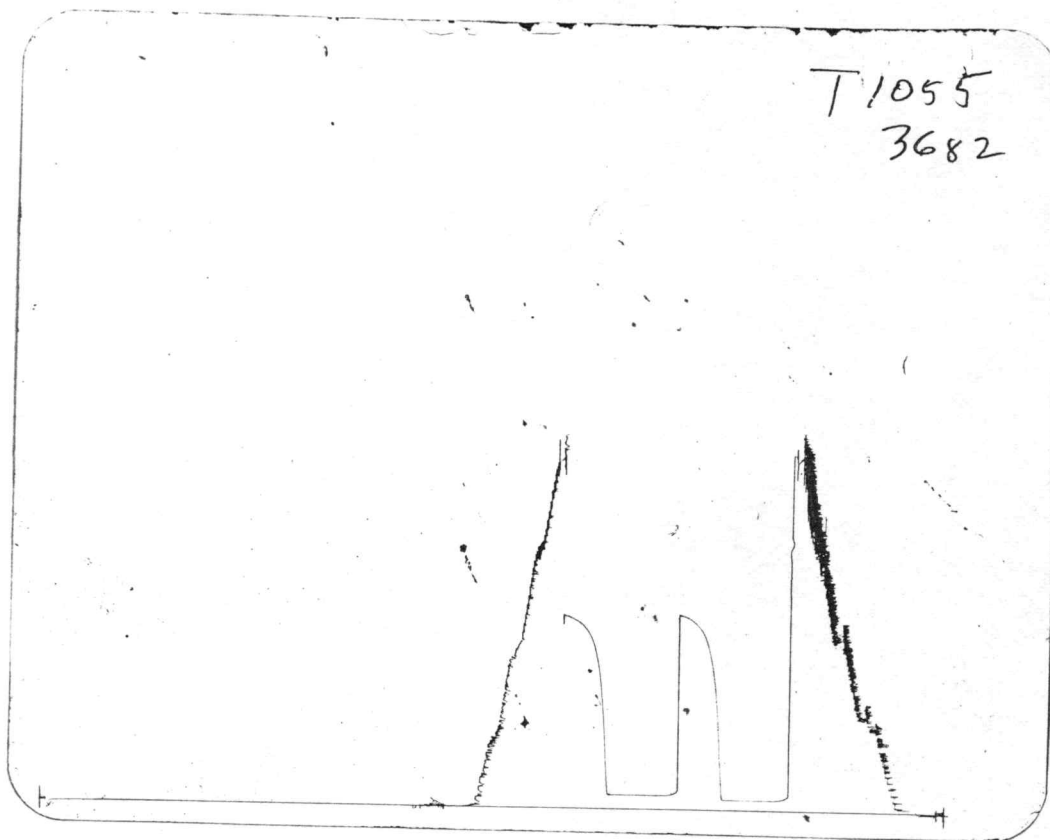
Recovery 10' oil cut mud

60' mud (Spotted oil)

Free oil on top of tool

Muddy

TOP



BOTTOM

