

# Sun Oil Well Cementing, Inc.

# DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease Putman	Well No. 4	Date 4-9-79
County Barton	Sec. 1 Twp. 17 Rng. 14	Elevation
Company L. G. Stephenson & Company		Test No. 1
Contractor Red Tiger		Zone Tested Topeka
Charge To L. G. Stephenson & Co.		Ticket # 3377
Approved By James W. Spellman		Tester Richard Bowman

Initial Hydro Mud Press. 1598 P.S.I.

Initial Flow Press. 42 To 43 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 64 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 43 To 43 P.S.I. Final Flow Period 30 Min.

Final Shut-in Press. 55 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1588 P.S.I. TIME TOOL OPEN 8:00 p.m.

Temperature 100°

Mud Weight 9.9 Viscosity 45

Fluid Loss 11.8

Interval Tested 3042 To 3068

Top Packer Depth 3037 Surface Choke Size

Bottom Packer Depth 3042 Bottom Choke Size 5/8

Total Depth 3068 Main Hole Size 7 7/8

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

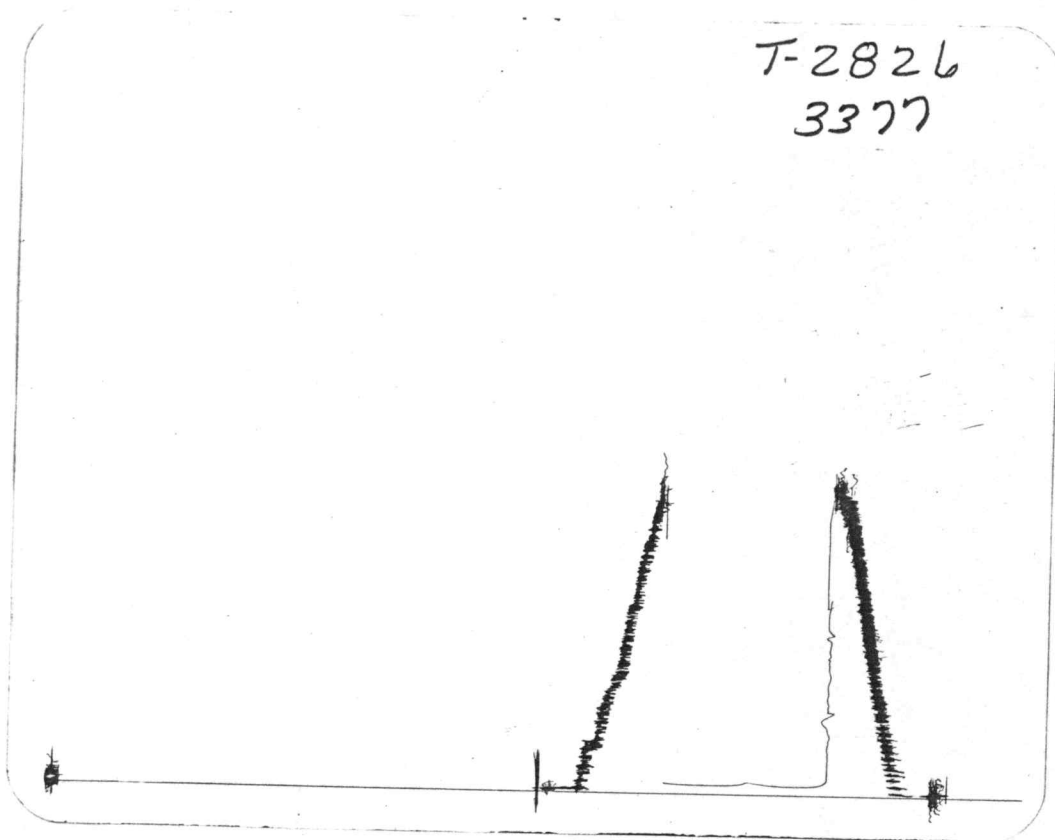
Drill Collar I.D. 2.25 Ft. Run None

Blow Very Weak Blow Died in 10 Min.

Recovery 10' Mud

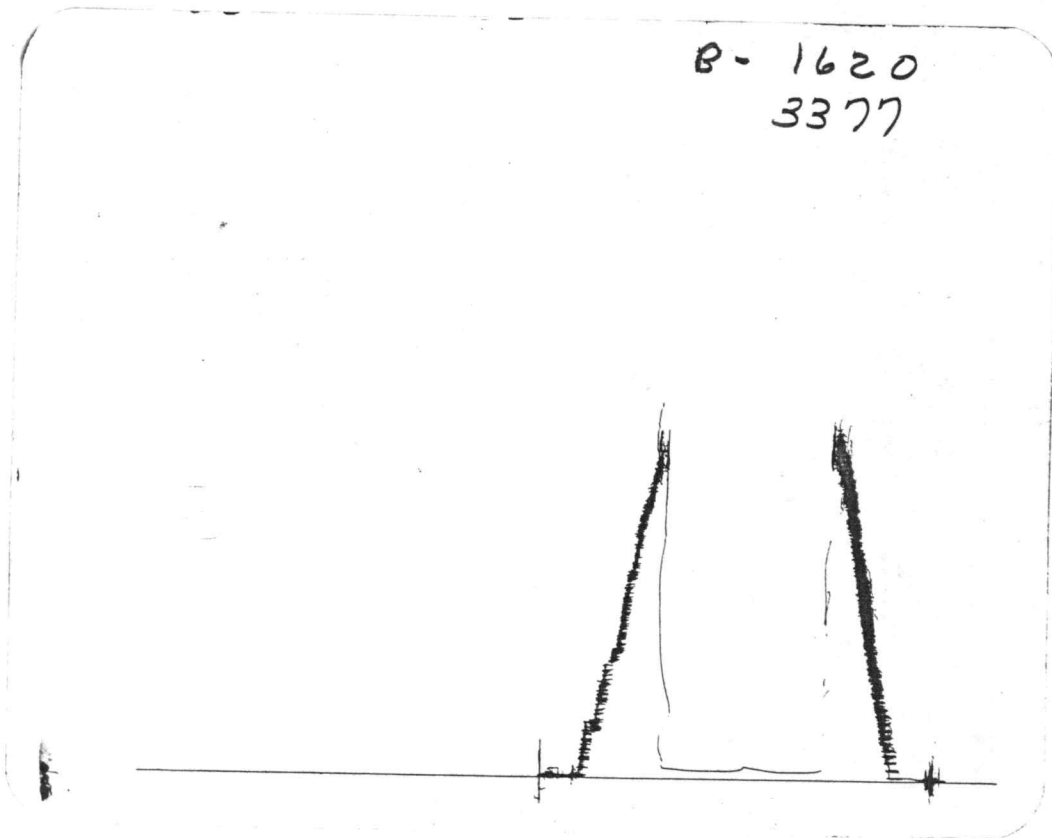
TOP

T-2826  
3377



BOTTOM

B-1620  
3377



# Sun Oil Well Cementing, Inc.

# DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Putman	Well No.	4	Date	4-10-79
County	Barton	Sec.	1	Twp.	17
		Rng.	14	Elevation	
Company	L. G. Stephenson & Company			Test No.	2
Contractor	Red Tiger			Zone Tested	K.C.
Charge To	L.G. Stephenson & Company			Ticket #	3378
Approved By	James W. Spellman			Tester	Richard Bowman

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

Initial Flow Press. 64 To 76 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 918 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 87 To 87 P.S.I. Final Flow Period 30 Min.

Final Shut-in Press. 830 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1726 P.S.I. TIME TOOL OPEN 7:30 p.m.

Temperature 106°

Mud Weight 9.9 Viscosity 42

Fluid Loss 11.8

Interval Tested 3150 To 3241

Top Packer Depth 3145 Surface Choke Size \_\_\_\_\_

Bottom Packer Depth 3150 Bottom Choke Size 5/8

Total Depth 3241 Main Hole Size 7 7/8

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

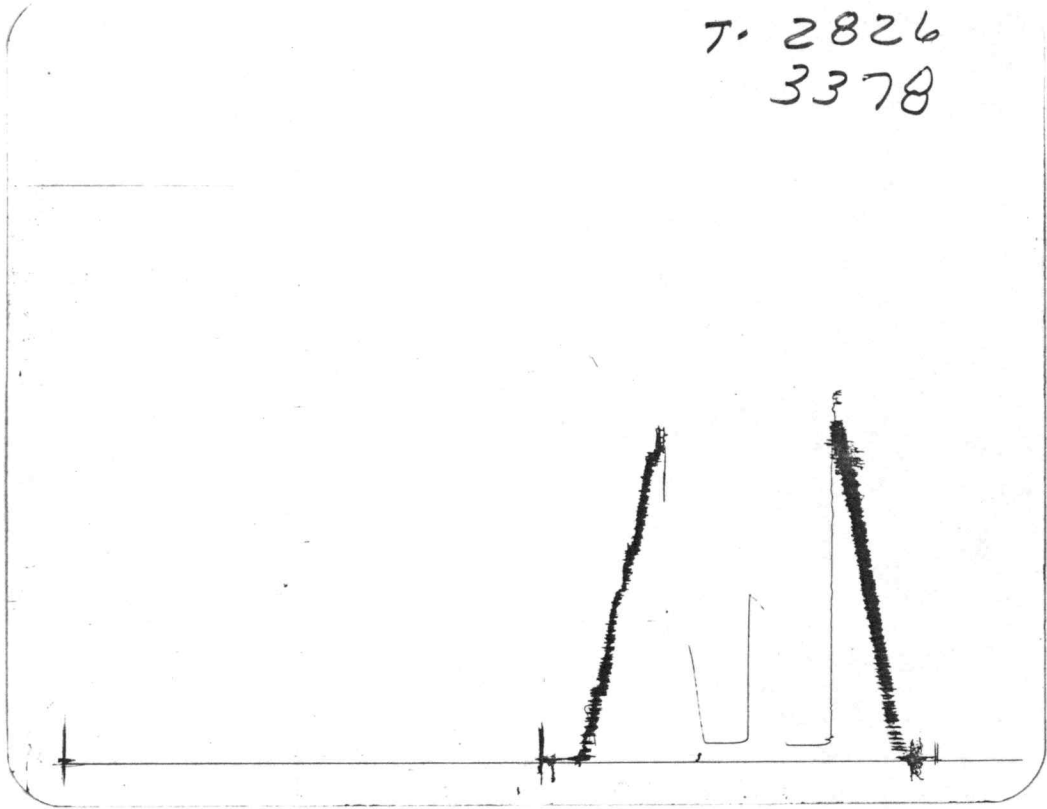
Drill Collar I.D. 2.25 Ft. Run None

Blow Very Weak Steady Blow

Recovery 45' Muddy Water

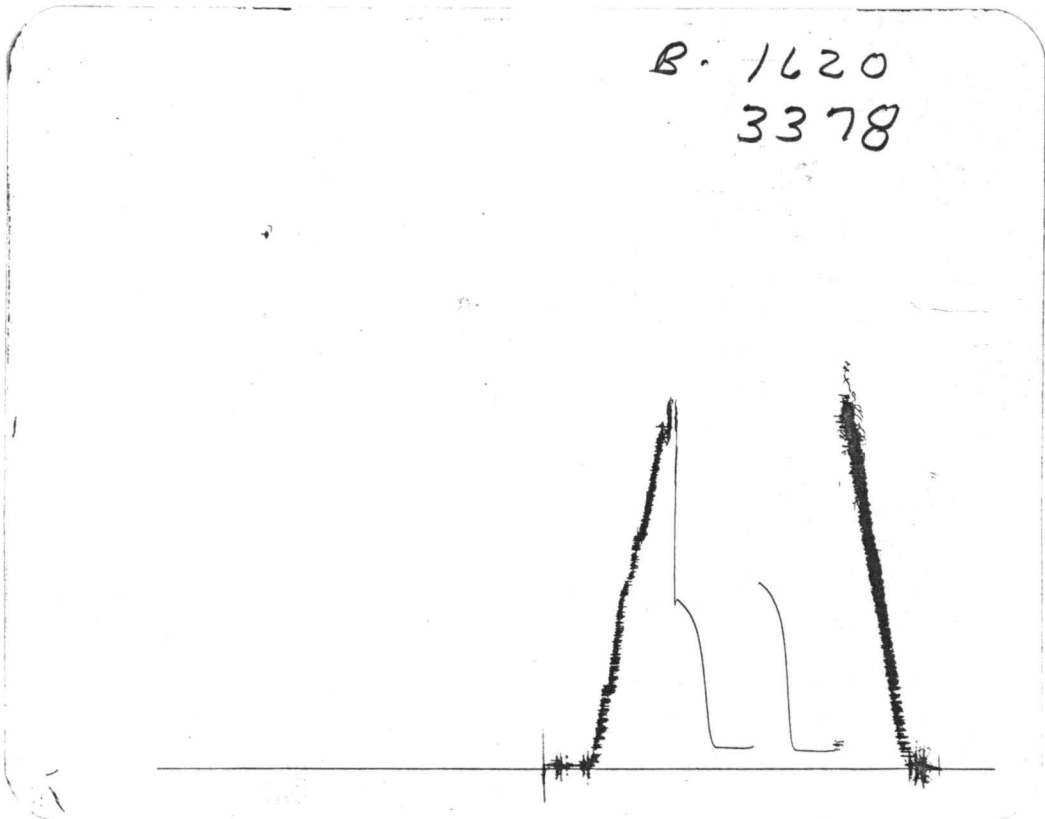
TOP

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3378



BOTTOM

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# Sun Oil Well Cementing, Inc.

# DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease Putman	Well No. 4	Date 4-11-79
County Barton	Sec. 1 Twp. 17 Rng. 1 4	Elevation
Company L. G. Stephenson & Company		Test No. 3
Contractor Red Tiger		Zone Tested KC
Charge To L. G. Stephenson & Company		Ticket # 3379
Approved By James W. Spellman		Tester Richard Bowman

Initial Hydro Mud Press. 1855 P.S.I.

Initial Flow Press. 74 To 76 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 185 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 76 To 87 P.S.I. Final Flow Period 30 Min.

Final Shut-in Press. 110 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1844 P.S.I. TIME TOOL OPEN 7:45 a.m.

Temperature 103°

Mud Weight 9.9 Viscosity 42

Fluid Loss 18.0

Interval Tested 3241 To 3270

Top Packer Depth 3236 Surface Choke Size \_\_\_\_\_

Bottom Packer Depth 3241 Bottom Choke Size 5/8

Total Depth 3270 Main Hole Size 7 7/8

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

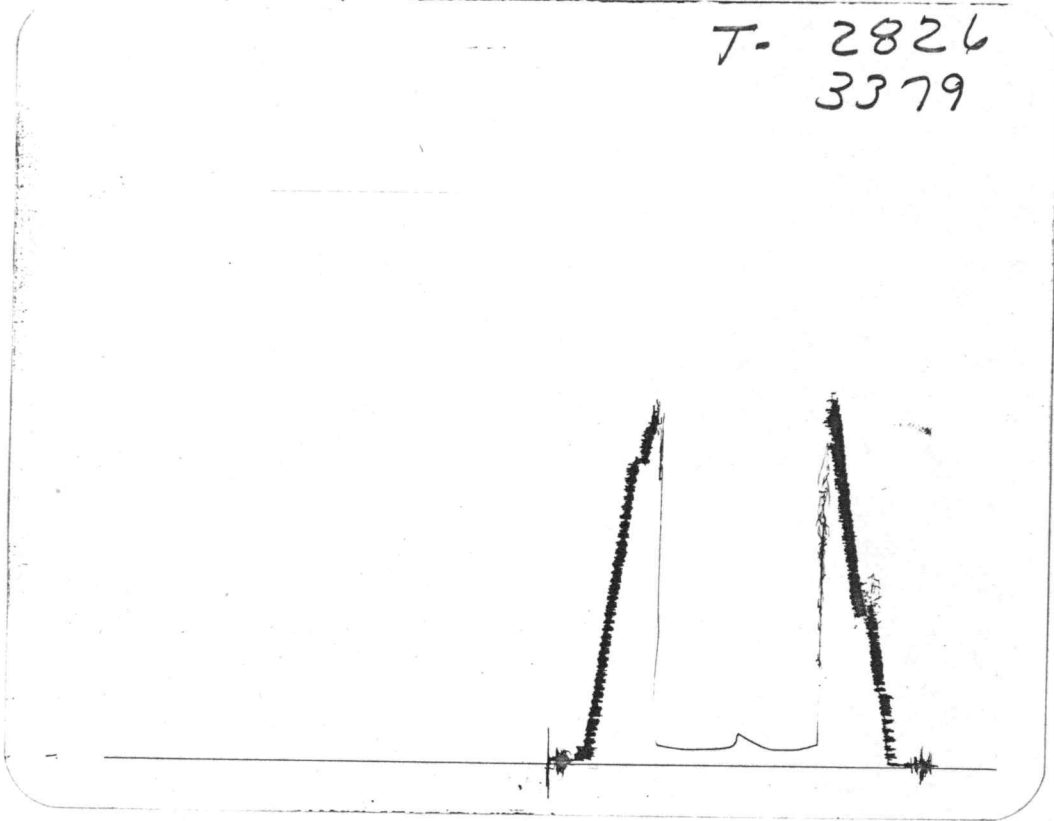
Drill Collar I.D. 2.25 Ft. Run None

Blow Very Weak Blow Second Flow, No Blow

Recovery 20' Mud

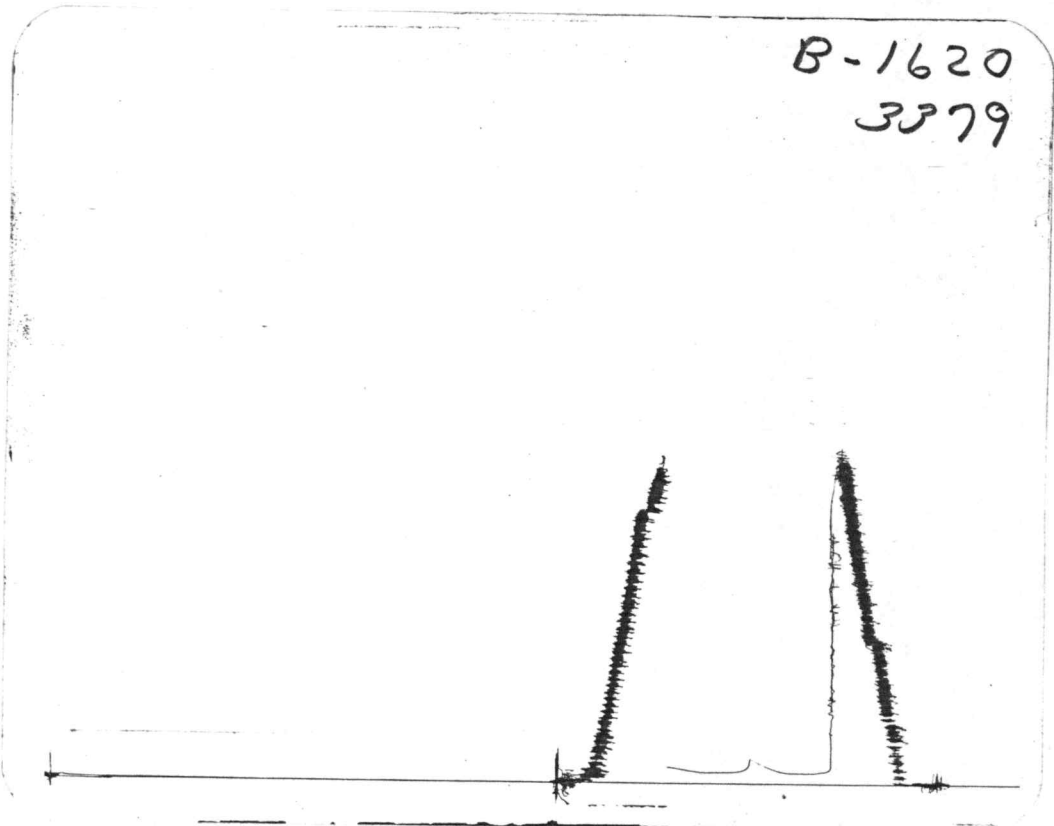
TOP

T- 2826  
3379



BOTTOM

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3379



Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Putman	Well No.	4	Date	4-11-79	
County	Barton	Sec.	1	Twp. 17	Rng. 14	
Company	L.G. Stephenson & Company				Test No.	4
Contractor	Red Tiger				Zone Tested	K.C.
Charge To	L.G. Stephenson & Company				Ticket #	3380
Approved By	James W. Spellman				Tester	Richard Bowman

Initial Hydro Mud Press. ...1855..... P.S.I.

Initial Flow Press. .54... To ...55..... P.S.I. Initial Flow Period ..... 30 ..... Min.

Initial Shut-in Press. .... 109 ..... P.S.I. Initial Shut-in ..... 30 ..... Min.

Final Flow Press. .55... To ..... 55... P.S.I. Final Flow Period ..... 30 ..... Min.

Final Shut-in Press. .... 61 ..... P.S.I. Final Shut-in ..... 30 ..... Min.

Final Hydro Mud Press. .... 1844 ..... P.S.I. TIME TOOL OPEN ..... 9:00 p.m. ....

Temperature ...103°.....

Mud Weight ..... 10.1 ..... Viscosity ...44.....

Fluid Loss ..... 12.8.....

Interval Tested ..... 3275 ..... To ..... 3305.....

Top Packer Depth ..... 3270 ..... Surface Choke Size .....

Bottom Packer Depth ..... 3275 ..... Bottom Choke Size ..... 5/8 .....

Total Depth ..... 3305 ..... Main Hole Size ..... 7 7/8 .....

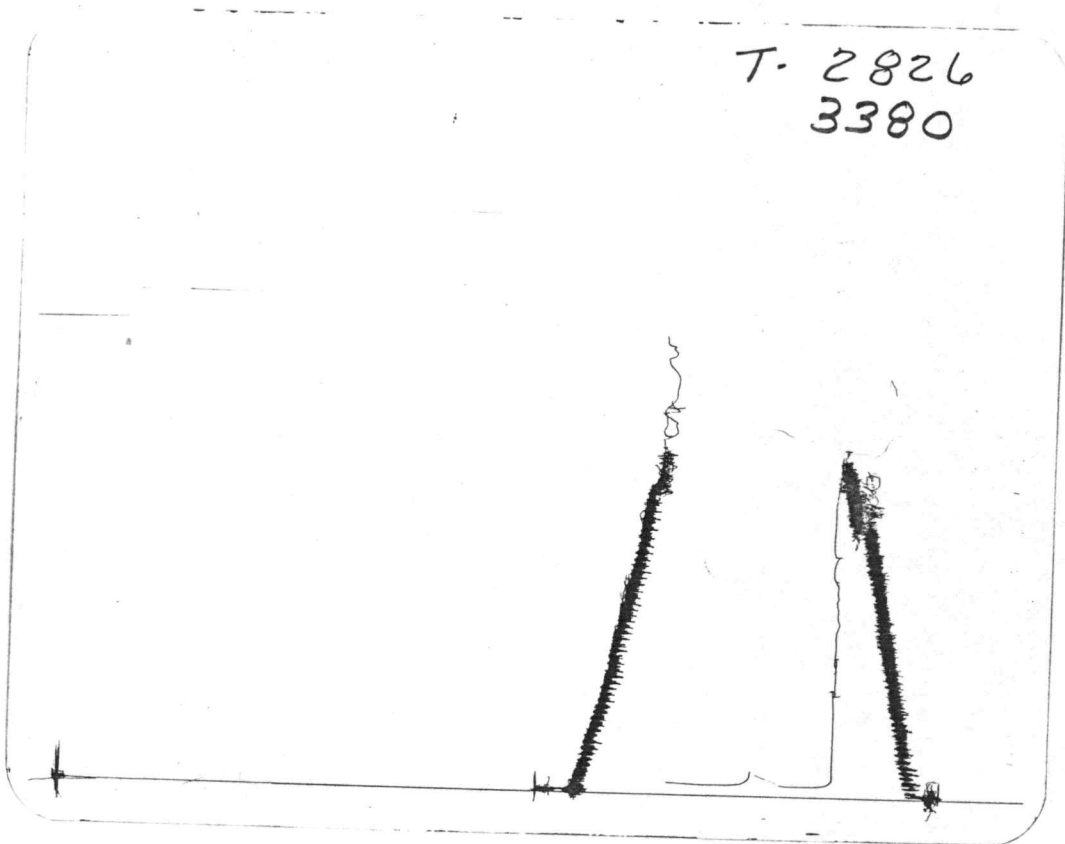
Drill Pipe Size ... 4 1/2 XH Wt 4 1/2 XH Rubber Size ..... 6 3/4 .....

Drill Collar I.D. 2.25 Ft. Run ..... None .....

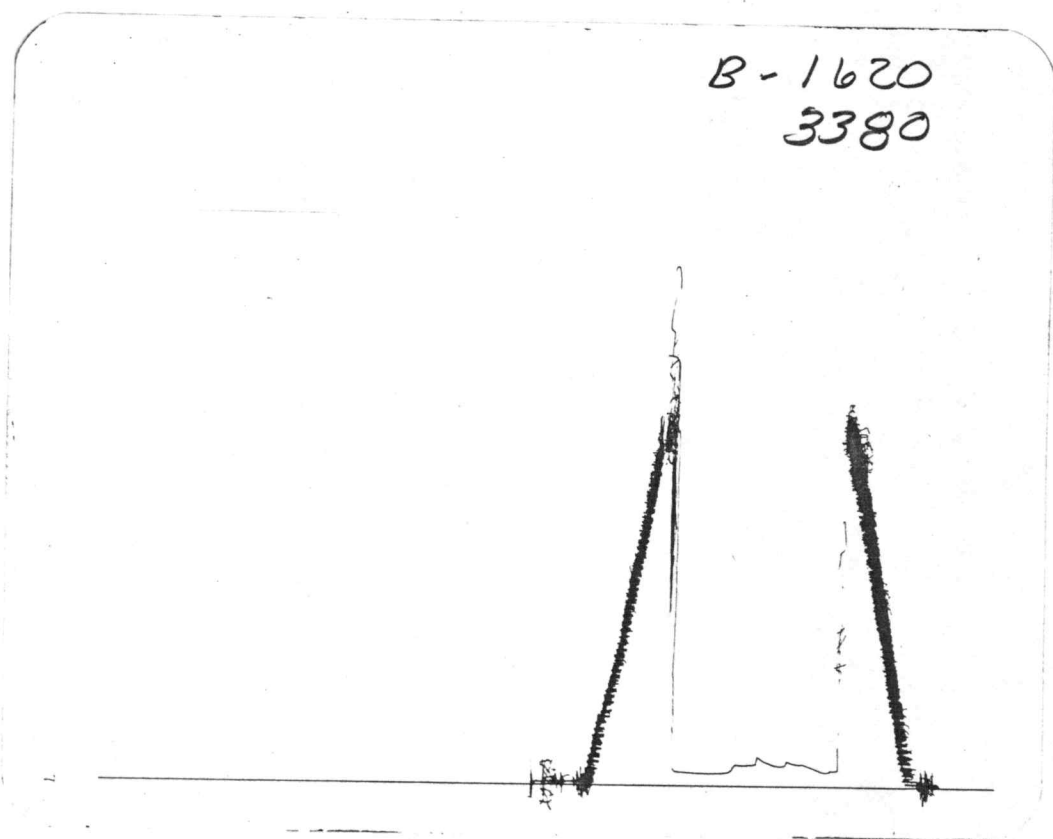
Blow ..... Very Weak Blow 2nd Flow No Blow .....

Recovery ... 10' Mud .....

TOP



BOTTOM



# Sun Oil Well Cementing, Inc.

# DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease Putman	Well No. 4	Date 4-12-79
County Barton Sec. 1 Twp. 17 Rng. 14		Elevation
Company L.G. Stephenson & Company		Test No. 5
Contractor Red Tiger		Zone Tested K.C.
Charge To L. G. Stephenson & Company		Ticket # 3381
Approved By James W. Spellman		Tester Richard Bowman

Initial Hydro Mud Press. 1769 P.S.I.

Initial Flow Press. 53 To 55 P.S.I. Initial Flow Period 60 Min.

Initial Shut-in Press. 206 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 64 To 67 P.S.I. Final Flow Period 60 Min.

Final Shut-in Press. 168 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1758 P.S.I. TIME TOOL OPEN 4:15 p.m.

Temperature 104°

Mud Weight 9.9 Viscosity 43

Fluid Loss 10.4

Interval Tested 3346 To 3381

Top Packer Depth 3341 Surface Choke Size \_\_\_\_\_

Bottom Packer Depth 3346 Bottom Choke Size 5/8

Total Depth 3381 Main Hole Size 7 7/8

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

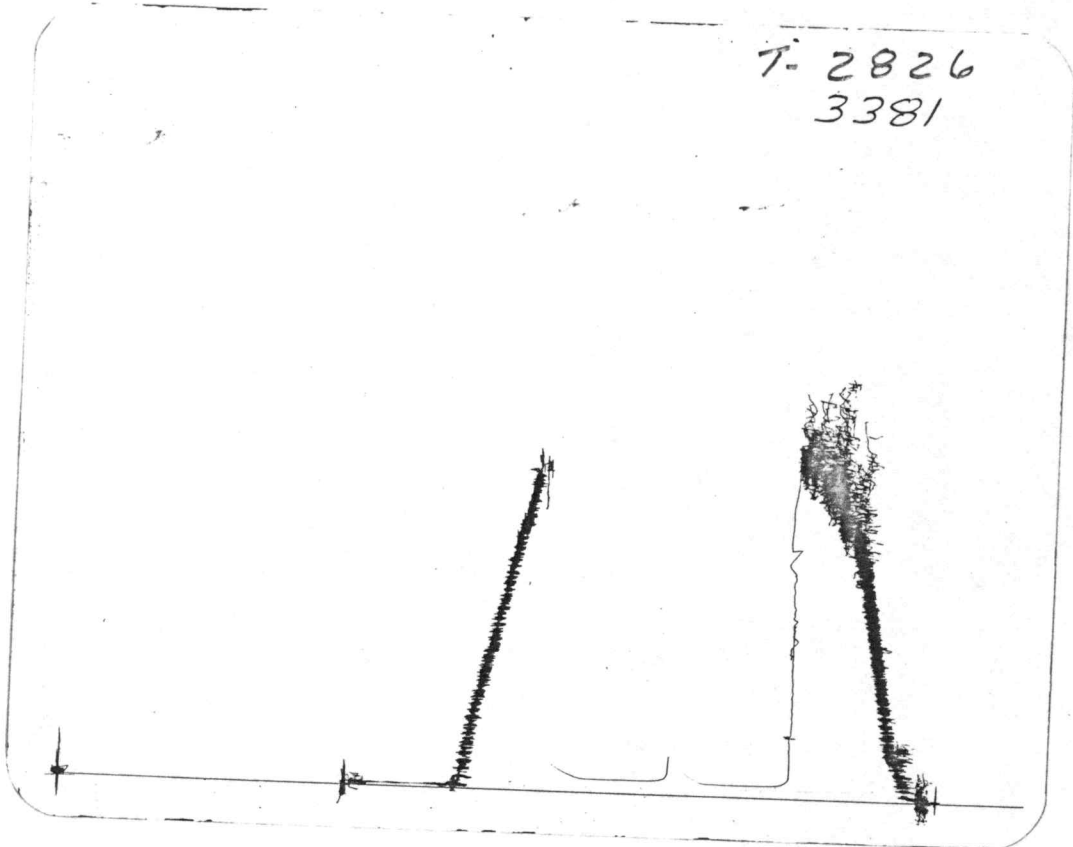
Drill Collar I.D. 2.25 Ft. Run None

Blow Very Weak Blow Building to Fair Steady Blow

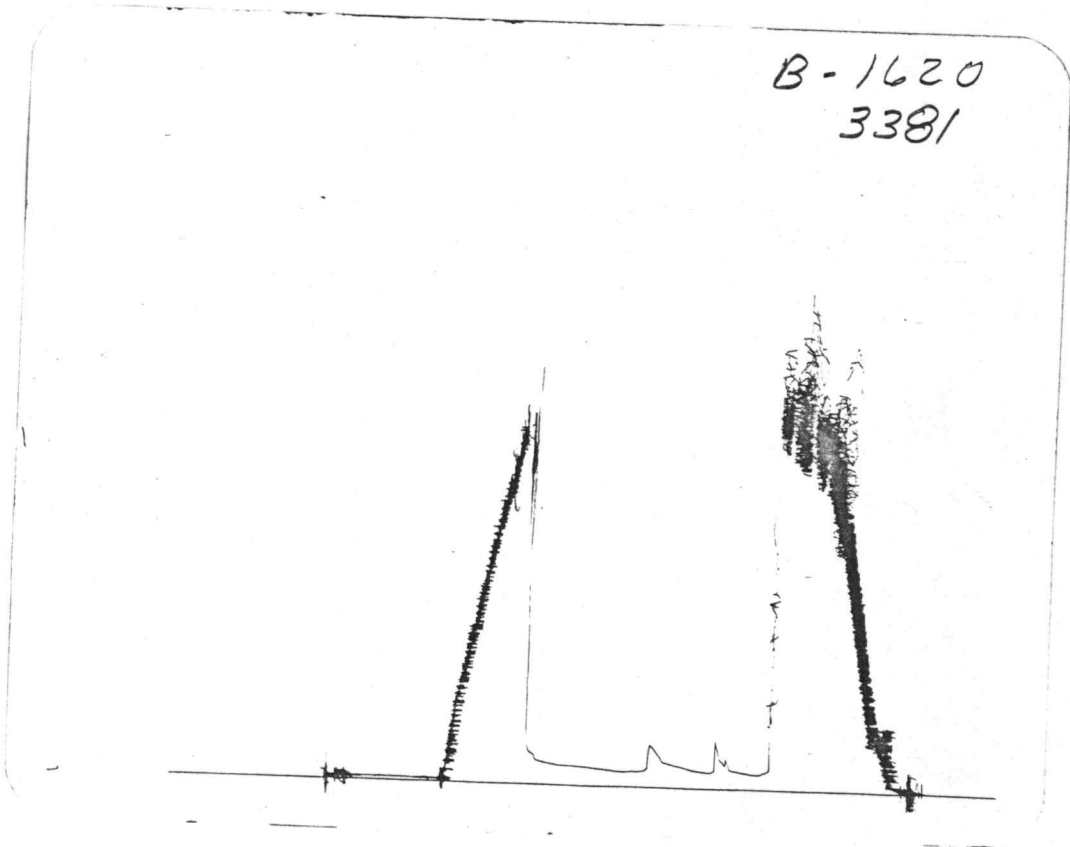
Recovery 300' Gas in Pipe

62' Oil & Gas Cut Mud

TOP



BOTTOM



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Great Bend, Kansas 67530

Lease Putman	Well No. 4	Date 4-13-79
County Barton	Sec. 1 Twp. 17 Rng. 14	Elevation
Company L. G. Stephenson & Company		Test No. 6
Contractor Red Tiger		Zone Tested Arbuckle
Charge To L. G. Stephenson & Company		Ticket # 3382
Approved By James W. Spellman		Tester Richard Bowman

Initial Hydro Mud Press. 1812 P.S.I.

Initial Flow Press. 53 To 54 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 217 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 64 To 66 P.S.I. Final Flow Period 30 Min.

Final Shut-in Press. 98 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1801 P.S.I. TIME TOOL OPEN 12:45 p.m.

Temperature 105°

Mud Weight 9.9 Viscosity 43

Fluid Loss 11.6

Interval Tested 3422 To 3462

Top Packer Depth 3417 Surface Choke Size

Bottom Packer Depth 3422 Bottom Choke Size 5/8

Total Depth 3462 Main Hole Size 7 7/8

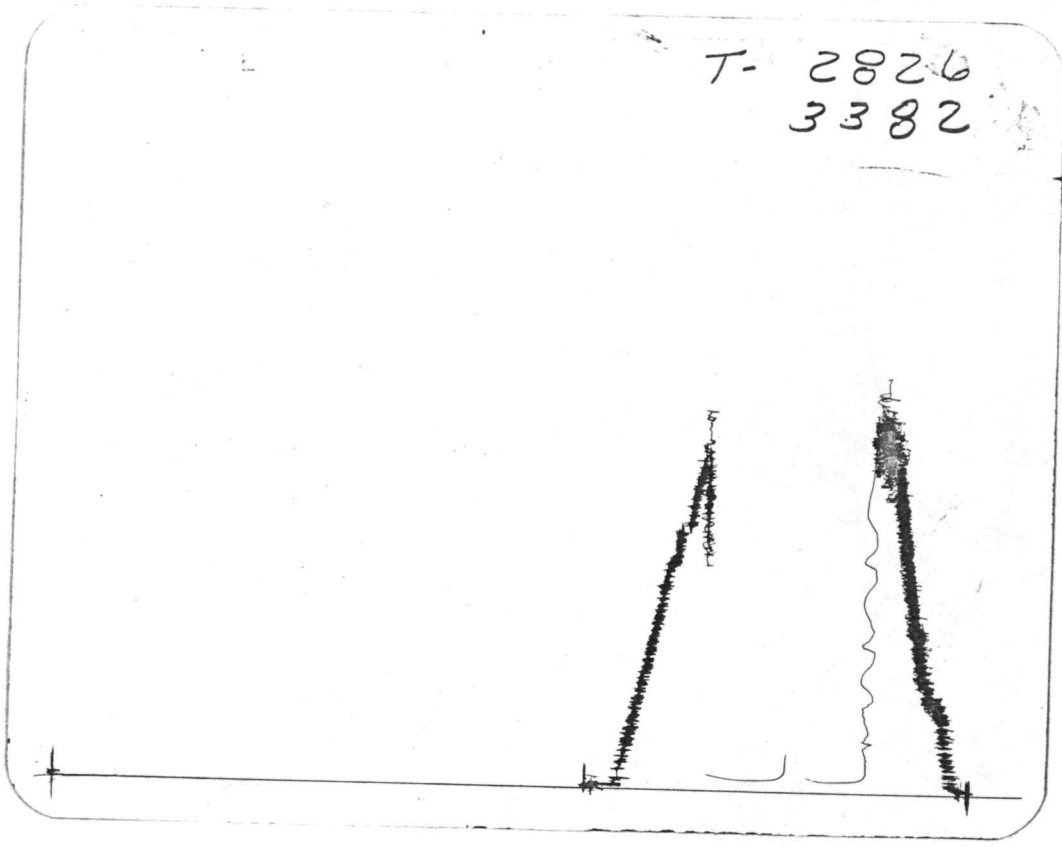
Drill Pipe Size 1 1/2 XH Wt 4 1/2 XH Rubber Size 6 3/4

Drill Collar I.D. 2.25 Ft. Run None

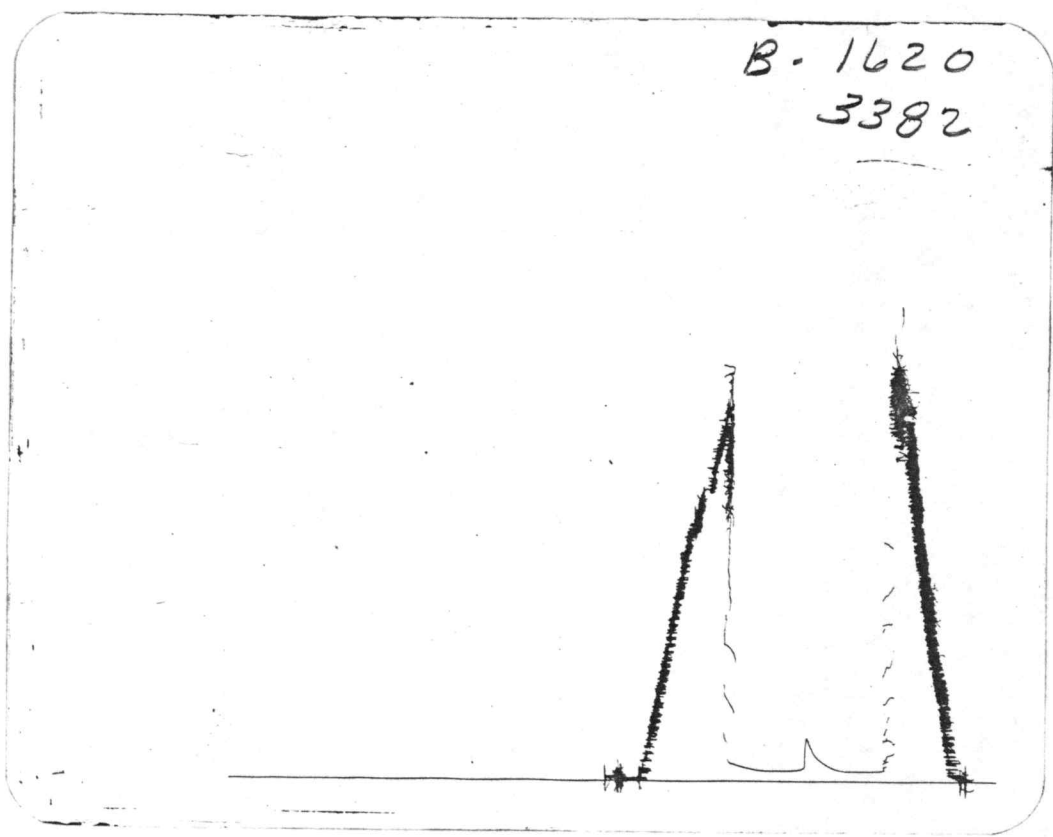
Blow Very Weak Blow Second Flow No Blow

Recovery 5' Oil Cut Mud

TOP



BOTTOM



# Sun Oil Well Cementing, Inc.

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P.O. Box 169

Great Bend, Kansas 67530

Lease	Putman	Well No.	4	Date	4-13-79
County	Barton	Sec.	1	Twp.	17
		Rng.	14	Elevation	
Company	L. G. Stephenson & Company			Test No.	7
Contractor	Red Tiger			Zone Tested	KC & Arbuckle
Charge To	L.G. Stephenson & Company			Ticket #	3383
Approved By	James W. Spellman			Tester	Richard Bowman

Initial Hydro Mud Press. 1822 P.S.I.

Initial Flow Press. 76 To 88 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 456 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 87 To 88 P.S.I. Final Flow Period 30 Min.

Final Shut-in Press. 240 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1812 P.S.I. TIME TOOL OPEN 10:00 p.m.

Temperature 110°

Mud Weight 9.9 Viscosity 48

Fluid Loss 11.8

Interval Tested 3381 To 3462

Top Packer Depth 3376 Surface Choke Size

Bottom Packer Depth 3381 Bottom Choke Size 5/8

Total Depth 3462 Main Hole Size 7 7/8

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

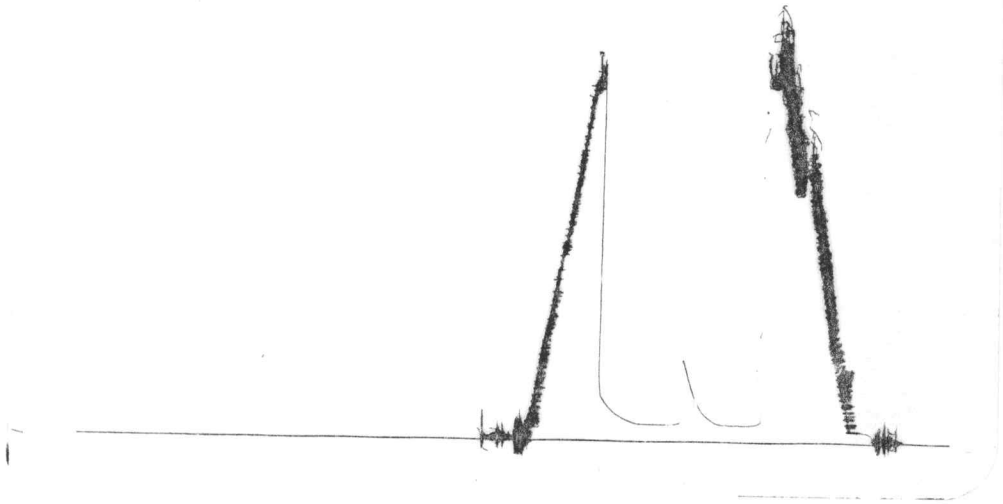
Drill Collar I.D. 2.25 Ft. Run None

Blow Very Weak Blow

Recovery 15' Slightly Oil Cut Mud

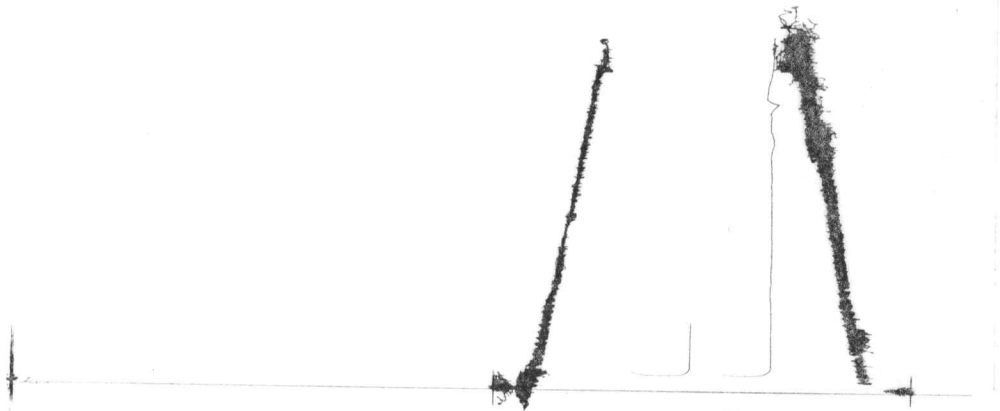
TOP

T- 2826  
3383



BOTTOM

B-1620  
3383



# Sun Oil Well Cementing, Inc.

# DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease Putman	Well No. 4	Date 4-14-79
County Barton Sec. 1 Twp. 17 Rng. 14		Elevation
Company L. G. Stephenson & Company		Test No. 8
Contractor Red Tiger		Zone Tested Arbuckle
Charge To L. G. Stephenson & Company		Ticket # 3384
Approved By James W. Spellman		Tester Richard Bowman

Initial Hydro Mud Press. 1812 P.S.I.

Initial Flow Press. 184 To 325 P.S.I. Initial Flow Period 60 Min.

Initial Shut-in Press. 992 P.S.I. Initial Shut-in 45 Min.

Final Flow Press. 374 To 441 P.S.I. Final Flow Period 60 Min.

Final Shut-in Press. 972 P.S.I. Final Shut-in 45 Min.

Final Hydro Mud Press. 1801 P.S.I. TIME TOOL OPEN 8:30 a.m.

Temperature 116°

Mud Weight 10.0 Viscosity 43

Fluid Loss 11.8

Interval Tested 3420 To 3472

Top Packer Depth 3415 Surface Choke Size

Bottom Packer Depth 3420 Bottom Choke Size 5/8

Total Depth 3472 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 Fair Blow Building to Strong Blow in 12 Min.

Recovery 120' Gas in Pipe

405' Clean Gassy Oil

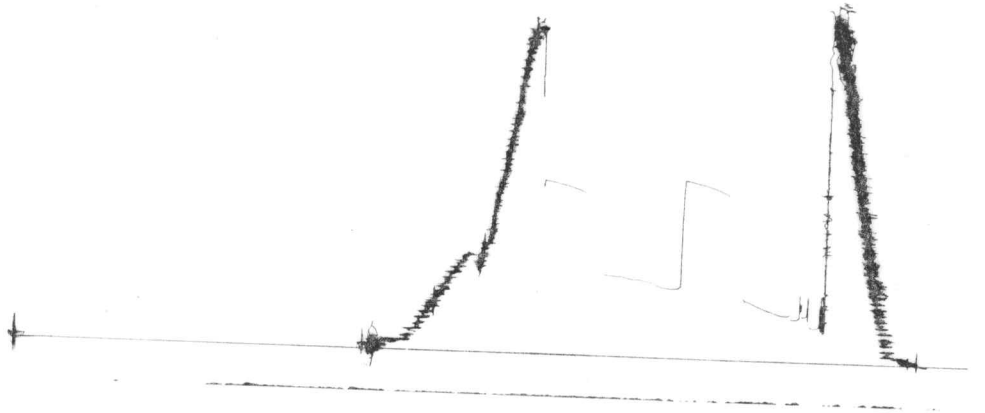
420' Slightly Gas & Mud cut Oil

180' Heavy Gas & Mud Cut Oil

1005' Fluid

TOP

T-2826  
3384



BOTTOM

B-1620  
3384

