

P.O. Box 169

Great Bend, Kansas 67530

Lease	Gabel	Well No.	A #2	Date	6-17-73
County	Ellis	Sec. 5	Twp. 14 Rng. 20	Elevation	2239 K.B.
Company	L. G. Stephenson			Test No.	1
Contractor	Red Tiger Drilling Co.			Zone Tested	
Charge To	L. G. Stephenson			1314	0-14
Approved By	Ray Goodin			Tester	Steve Bradley

Recorder No. 2355 Clock Range 12hr Recorder No. 2351 Clock Range 12hr

Depth 3539 Depth 3542

Initial Hydro Mud Press. 1864 P.S.I.

Initial Flow Press. 22 To 22 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 313 P.S.I. Initial Shut-in 45 Min.

Final Flow Press. 22 To 23 P.S.I. Final Flow Period 60 Min.

Final Shut-in Press. 175 P.S.I. Final Shut-in 45 Min.

Final Hydro Mud Press. 1860 P.S.I.

Temperature

Mud Weight 9.9 Viscosity 40

Fluid Loss 10.0

Interval Tested 3519 To 3545

Damage Ratio

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

Initial

Final

Top Packer Depth 3514 Surface Choke Size 5/8

Bottom Packer Depth 3519 Bottom Choke Size 5/8

Total Depth 3545 Main Hole Size 7 7/8

Drill Pipe Size 4½ x H Wt Rubber Size 6 3/4

Drill Collar I.D. Ft. Run

Blow Weak thru out test

Recovery 30' slight oil cut mud

	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.								
2.								
3.								
4.								
5.								

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

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Great Bend, Kansas 67530

Lease	Gabel	Well No.	A #2	Date	6-18-73
County	Ellis	Sec.	5	Elevation	2239 K.B.
		Twp.	14	Test No.	#2
		Rng.	20	Zone Tested	Kansas City
Company	L. G. Stephenson				
Contractor	Red Tiger Drilling Co.				
Charge To	L. G. Stephenson			70' Zone	1315 0-14
Approved By	Ray Goodin			Tester	Steve Bradley

Recorder No. 2355 Clock Range 12hr Recorder No. 2351 Clock Range 12hr

Depth 3584 Depth 3587

Initial Hydro Mud Press. 1804 P.S.I.

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

Initial Shut-in Press. 570 P.S.I. Initial Shut-in 30 Min.

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

Final Shut-in Press. 523 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1795 P.S.I.

Temperature 108°

Mud Weight 9.9 Viscosity 40

Fluid Loss 10.0

Interval Tested 3550 To 3590

Damage Ratio

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

Initial

Final

Top Packer Depth 3545 Surface Choke Size 5/8

Bottom Packer Depth 3550 Bottom Choke Size 5/8

Total Depth 3590 Main Hole Size 7 7/8

Drill Pipe Size 4 1/2 x HWt Rubber Size 6 3/4

Drill Collar I.D. Ft. Run

Blow Weak - Dead in 25 min.

Recovery 10' mud

First Flow		Initial Shut-in		Second Flow		Final Shut-in	
Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.	-----	-----	-----	-----	-----	-----	-----
2.	-----	-----	-----	-----	-----	-----	-----
3.	-----	-----	-----	-----	-----	-----	-----
4.	-----	-----	-----	-----	-----	-----	-----

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DRILL STEM TEST DATA

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Lease Gabel	Well No.	A #2	Date	6-18-73
County Ellis	Sec. 5	Twp. 14 Rng. 20	Elevation	2239 K.B.
Company	L. G. Stephenson		Test No.	#3
Contractor	Red Tiger Drilling Co.		Zone Tested	Top 90' zone Kans. City
Charge To	L. G. Stephenson			1316 0-14
Approved By	Ray Goodin		Tester	Steve Bradley

Recorder No. 2355 Clock Range 12hr Recorder No. 2351 Clock Range 12hr

Depth 3599 Depth 3602

Initial Hydro Mud Press. 1913 P.S.I.

Initial Flow Press. 28 To 116 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 501 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 140 To 246 P.S.I. Final Flow Period 60 Min.

Final Shut-in Press. 494 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1890 P.S.I.

Temperature 120°

Mud Weight 9.7 Viscosity 46

Fluid Loss 13.6

Interval Tested 3590 To 3605

Damage Ratio

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

Initial

Final

Top Packer Depth 3585 Surface Choke Size 5/8

Bottom Packer Depth 3590 Bottom Choke Size 5/8

Total Depth 3605 Main Hole Size 7 7/8

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

Drill Collar I.D. Ft. Run

Blow Good Blow - First opening - Fair - Second open -

Recovery 480' Salt water - slight show of oil in top of tool -

	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.								
2.								
3.								
4.								

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Lease	Gabel	Well No.	A #2	Date	6-19-73
County	Ellis	Sec.	5	Twp.14	Rng. 20
Company	L. G. Stephenson			Test No.	#4
Contractor	Red Tiger Drilling Co.			Zone Tested	Lansing High Zone
Charge To	L. G. Stephenson				1317 0-14
Approved By	Ray Goodin			Tester	Steve Bradley

Recorder No. 2355 Clock Range 12hr Recorder No. 2351 Clock Range 12hr

Depth 3697 Depth 3700

Initial Hydro Mud Press. 1953 P.S.I.

Initial Flow Press. 20 To 20 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 25 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 20 To 20 P.S.I. Final Flow Period 30 Min.

Final Shut-in Press. 25 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1953 P.S.I.

Temperature 110

Mud Weight 9.6 Viscosity 37

Fluid Loss 10.8

Interval Tested 3680 To 3703

Damage Ratio

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

Initial

Final

Top Packer Depth 3675 Surface Choke Size 5/8

Bottom Packer Depth 3680 Bottom Choke Size 5/8

Total Depth 3703 Main Hole Size 7 7/8

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

Drill Collar I.D. Ft. Run

Blow m Weak - Dead in 17 min.

Recovery 10' very slightly oil cut mud

First Flow		Initial Shut-in		Second Flow		Final Shut-in	
Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.	-----	-----	-----	-----	-----	-----	-----
2.	-----	-----	-----	-----	-----	-----	-----
3.	-----	-----	-----	-----	-----	-----	-----
4.	-----	-----	-----	-----	-----	-----	-----

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DRILL STEM TEST DATA

P.O. Box 169

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Lease	Gabel	Well No.	A #2	Date	6-20-73
County	Ellis	Sec.	5	Twp.	14
				Rng.	20
Company	L. G. Stephenson			Test No.	#5
Contractor	Red Tiger Drilling Company.			Zone Tested	
Charge To	L. G. Stephenson			1318	0-14
Approved By	Ray Goodin			Tester	Steve Bradley

Recorder No. 2355 Clock Range 12hr Recorder No. 2351 Clock Range 12hr

Depth 3744 Depth 3747

Initial Hydro Mud Press. 1958 P.S.I.

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

Initial Shut-in Press. 78 P.S.I. Initial Shut-in 30 Min.

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

Final Shut-in Press. 43 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1927 P.S.I.

Temperature 110

Mud Weight 9.9 ~~9.9~~ Viscosity 43

Fluid Loss 11.6

Interval Tested 3727 To 3750

Damage Ratio

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

Initial

Final

Top Packer Depth 3722 Surface Choke Size 5/8

Bottom Packer Depth 3727 Bottom Choke Size 5/8

Total Depth 3750 Main Hole Size 7 7/8

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

Drill Collar I.D. Ft. Run

Blow Weak - Dead in 10 min.

Recovery 10' slightly oil cut mud.

	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.								
2.								
3.								
4.								

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease Gabel	Well No. A #2	Date	6-20-73
County Ellis	Sec. 5 Twp. 14 Rng. 20.	Elevation	2239 K.B.
Company L. G. Stephenson		Test No.	#6
Contractor Red Tiger Drilling Co.		Zone Tested	Lansing J-Zone
Charge To L. G. Stephenson			1319 -0-14
Approved By Ray Goodin		Tester	Bradley & Blake

Recorder No. 2355 Clock Range 12hr Recorder No. 2351 Clock Range 12hr

Depth 3712 Depth 3750

Initial Hydro Mud Press. 1920 P.S.I.

Initial Flow Press. 13 To 26 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 1083 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 36 To 46 P.S.I. Final Flow Period 30 Min.

Final Shut-in Press. 1083 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1866 P.S.I.

Temperature 116

Mud Weight 9.7 Viscosity 43

Fluid Loss 10.0

Interval Tested 3700 To 3716

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

Initial

Final

Top Packer Depth 3700 Surface Choke Size 5/8

Bottom Packer Depth 3716 Bottom Choke Size 5/8

Total Depth 3750 Main Hole Size 7 7/8

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

Drill Collar I.D. Ft. Run

Blow Very Weak - Dead in 10 min - flushed- no help

Recovery 120' of watery mud - show of oil in top of tool.

Straddle Test - Flushed tool after open 10 min

First Flow		Initial Shut-in		Second Flow		Final Shut-in	
Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.							
2.							
3.							
4.							

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

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Lease	Gabel	Well No.	A #2	Date	6-22-73
County	Ellis	Sec.	5	Twp.	14
		Rng.	20	Elevation	2239 K.B.
Company	L. G. Stephenson			Test No.	#7
Contractor	Red Tiger Drilling Co.			Zone Tested	Reagan Reagan Sand
Charge To	L. G. Stephenson				1320 0-14
Approved By	Ray Goodin			Tester	Steve Bradley

Recorder No. 2355 Clock Range 12hr Recorder No. 2351 Clock Range 12hr

Depth 3878 Depth 3881

Initial Hydro Mud Press. 1991 P.S.I.

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

Initial Shut-in Press. 697 P.S.I. Initial Shut-in 30 Min.

Final Flow Press. 25 To 25 P.S.I. Final Flow Period 30 Min.

Final Shut-in Press. 464 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. 1991 P.S.I. Damage Ratio

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

Temperature 110

Mud Weight 9.6 Viscosity 39

Initial

Fluid Loss 8.0

Final

Interval Tested 3854 To 3884

Top Packer Depth 3849 Surface Choke Size 5/8

Bottom Packer Depth 3854 Bottom Choke Size 5/8

Total Depth 3884 Main Hole Size 7 7/8

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

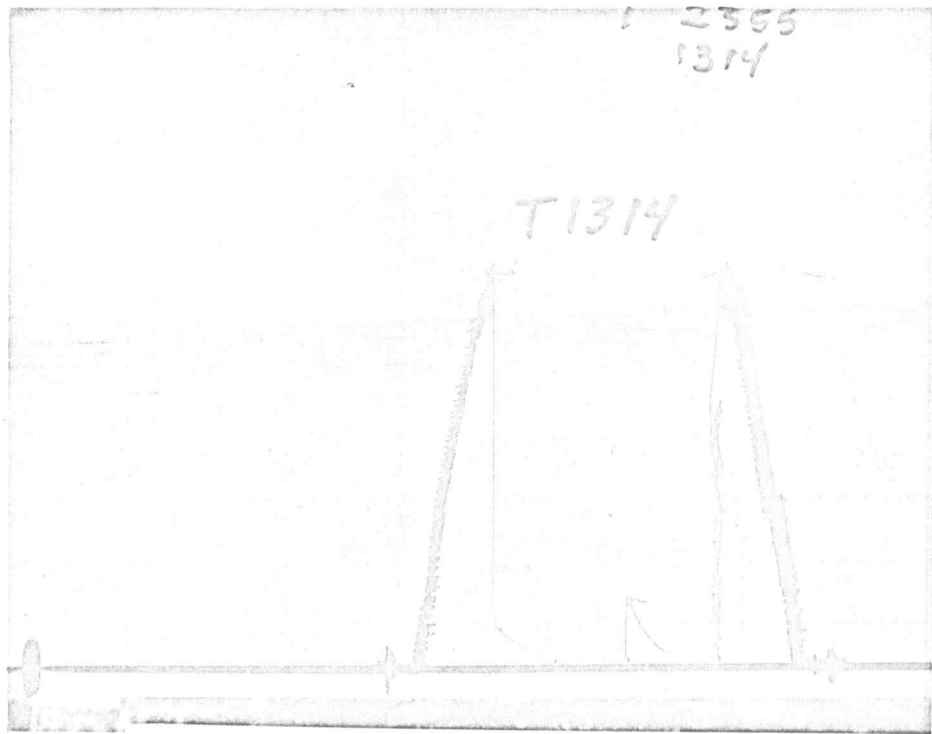
Drill Collar I.D. Ft. Run

Blow Weak - Dead in 20 min.

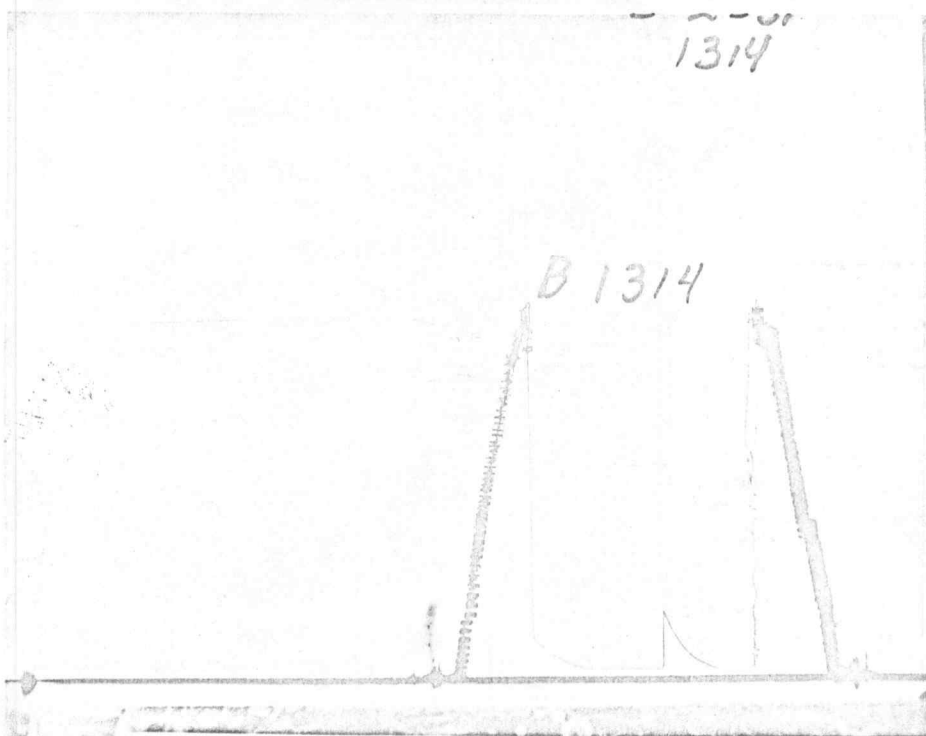
Recovery 10' mud - slight trace of oil in top of tool.

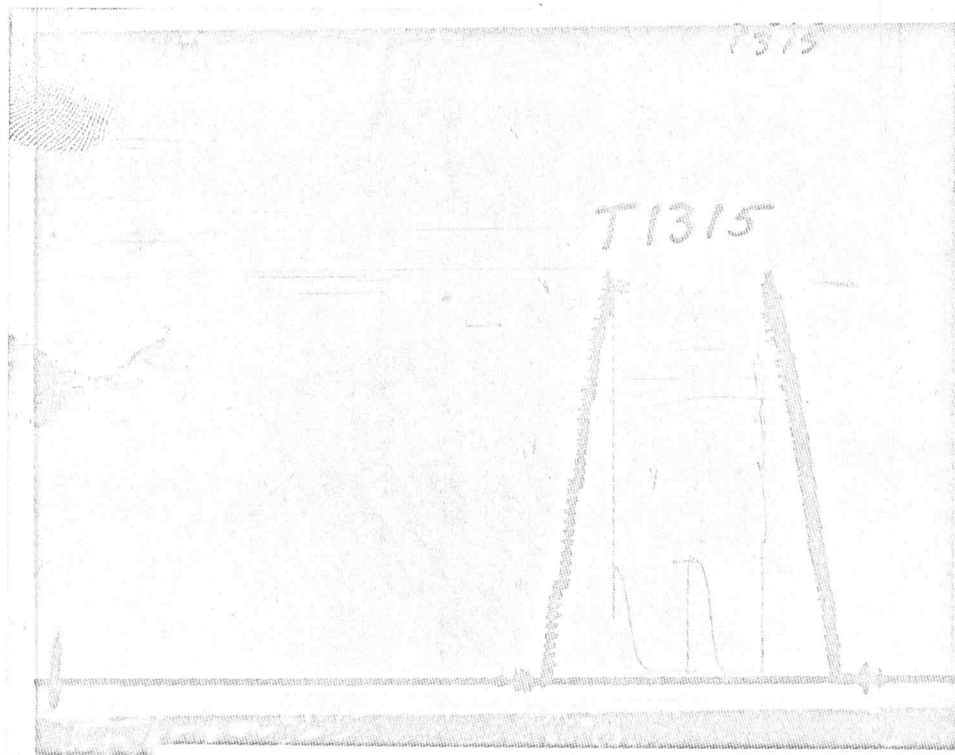
	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.								
2.								
3.								
4.								

TOP

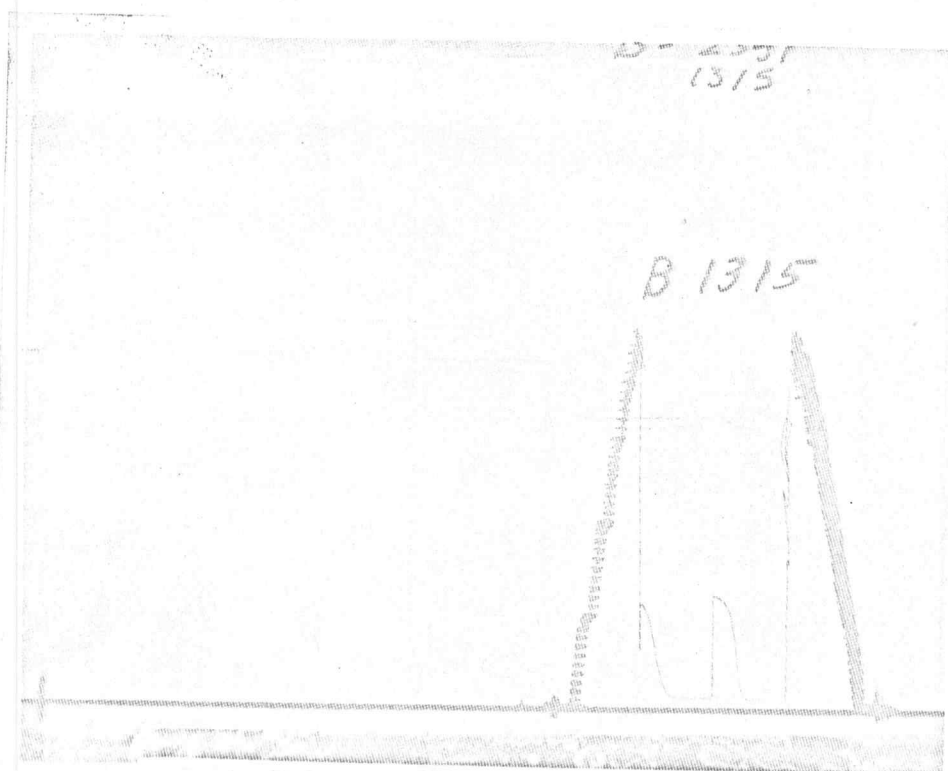


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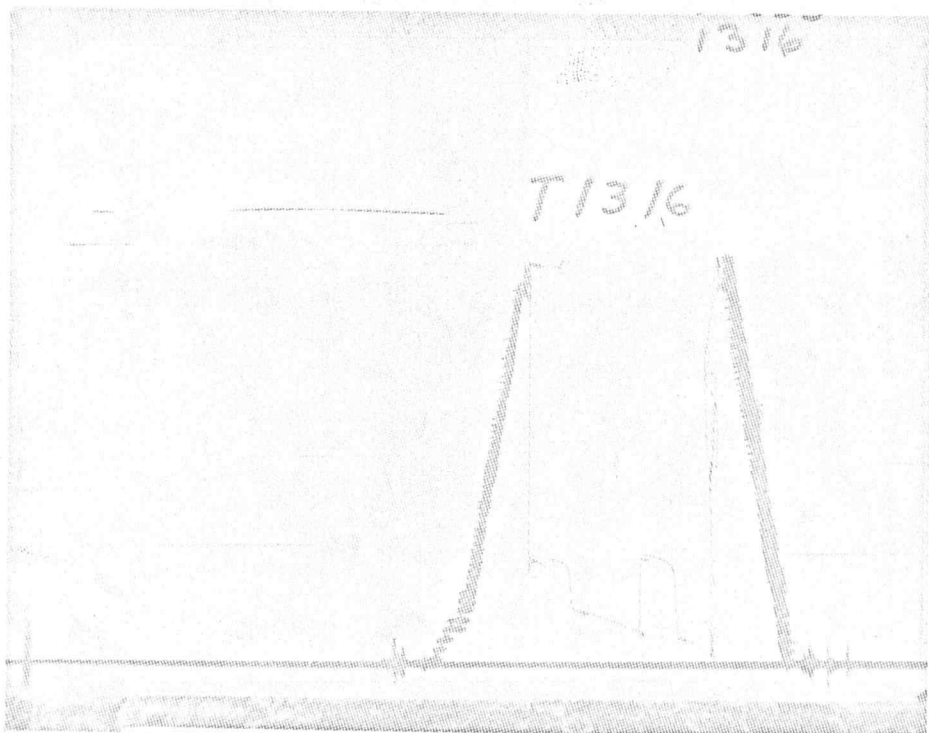




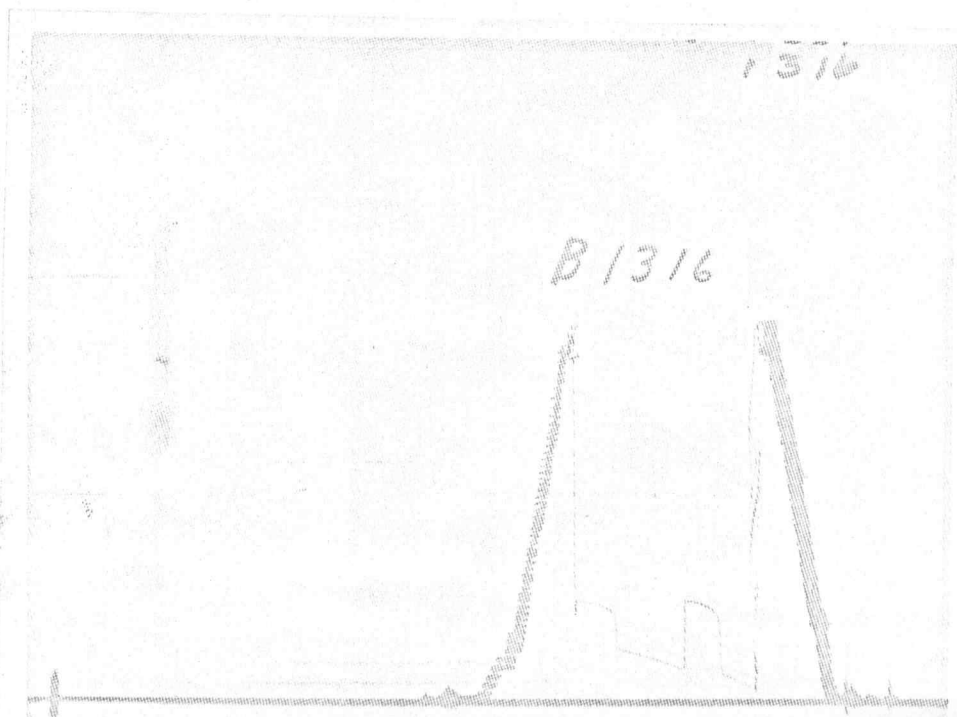
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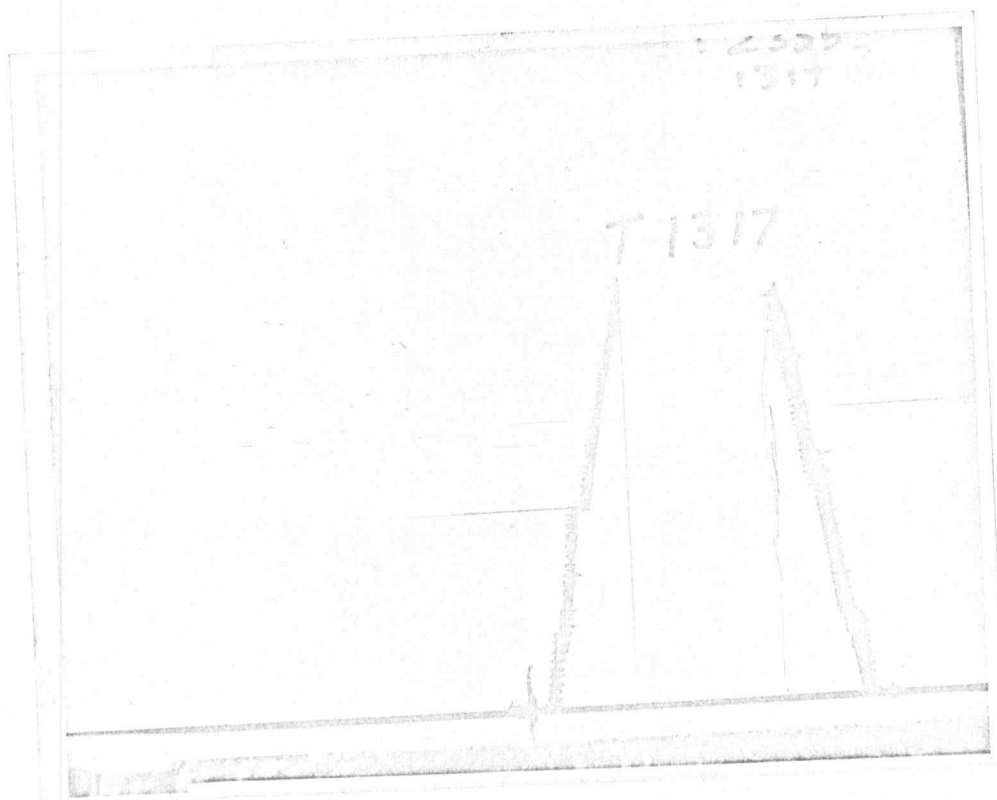


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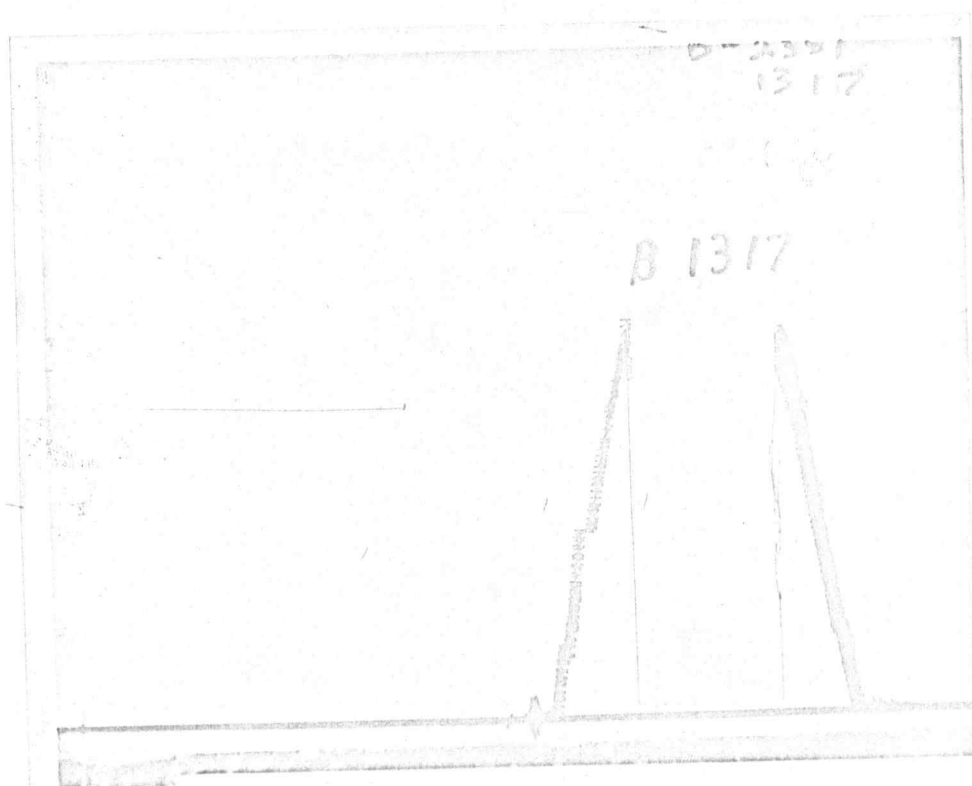


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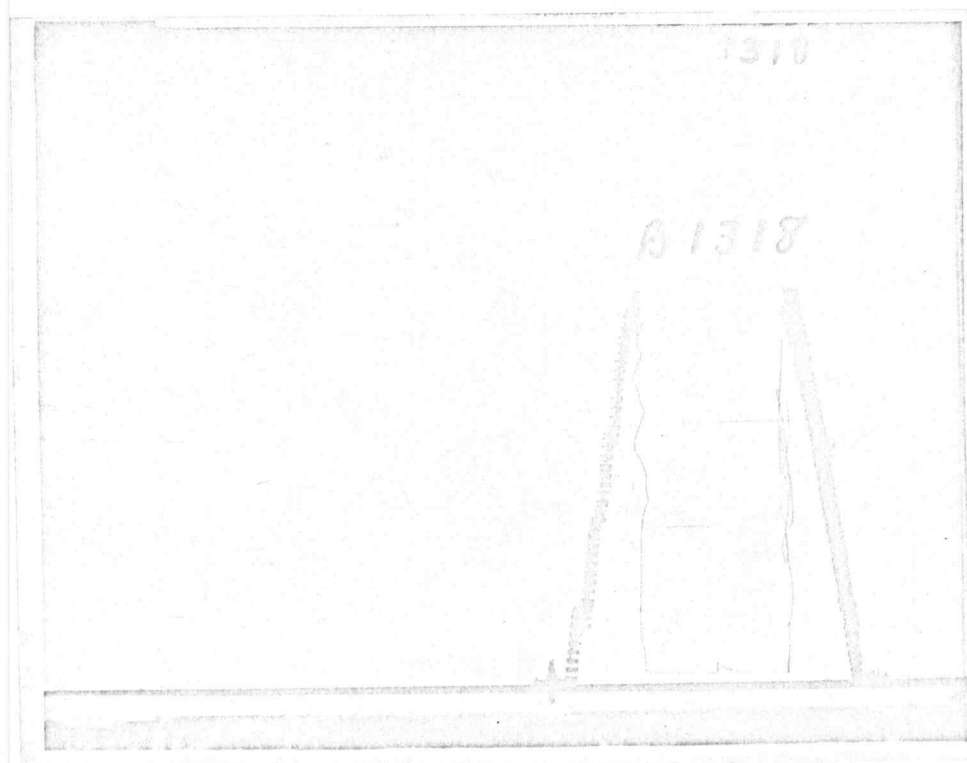
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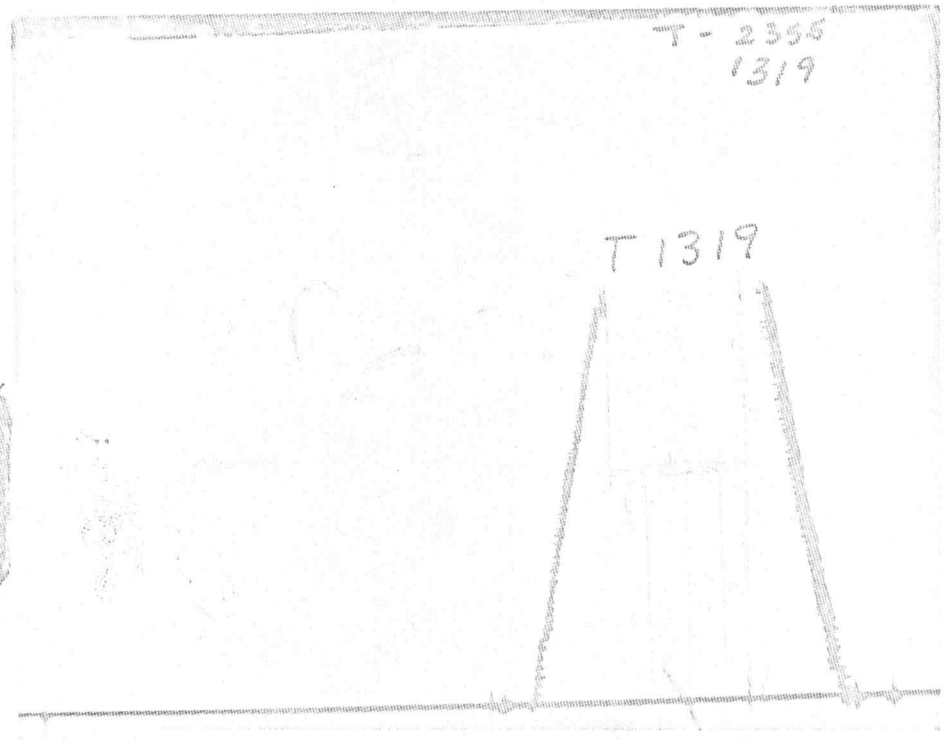


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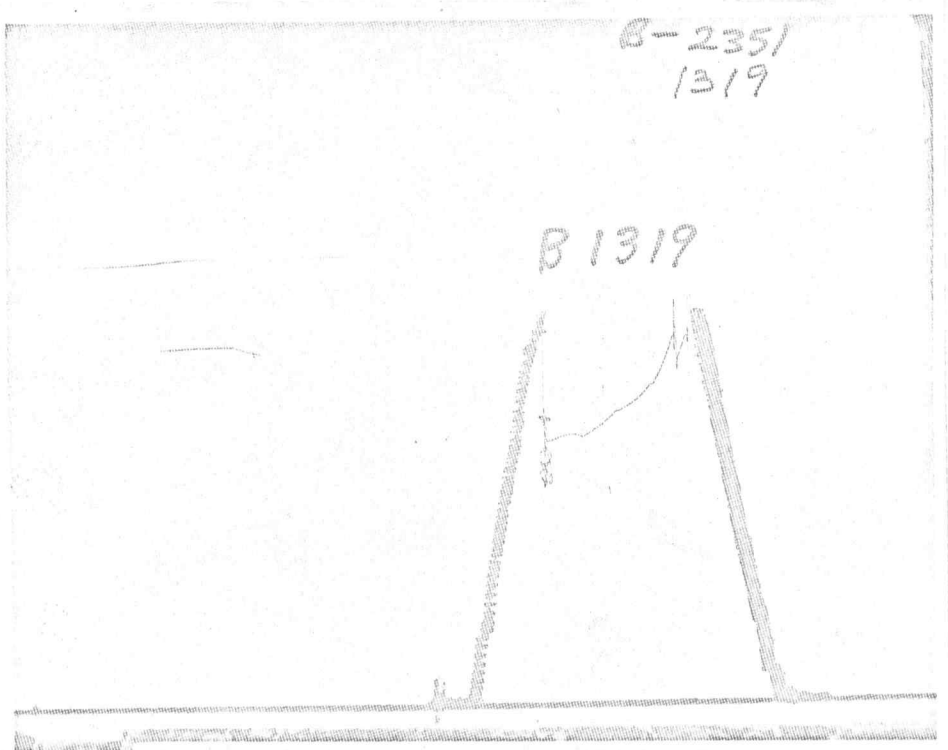


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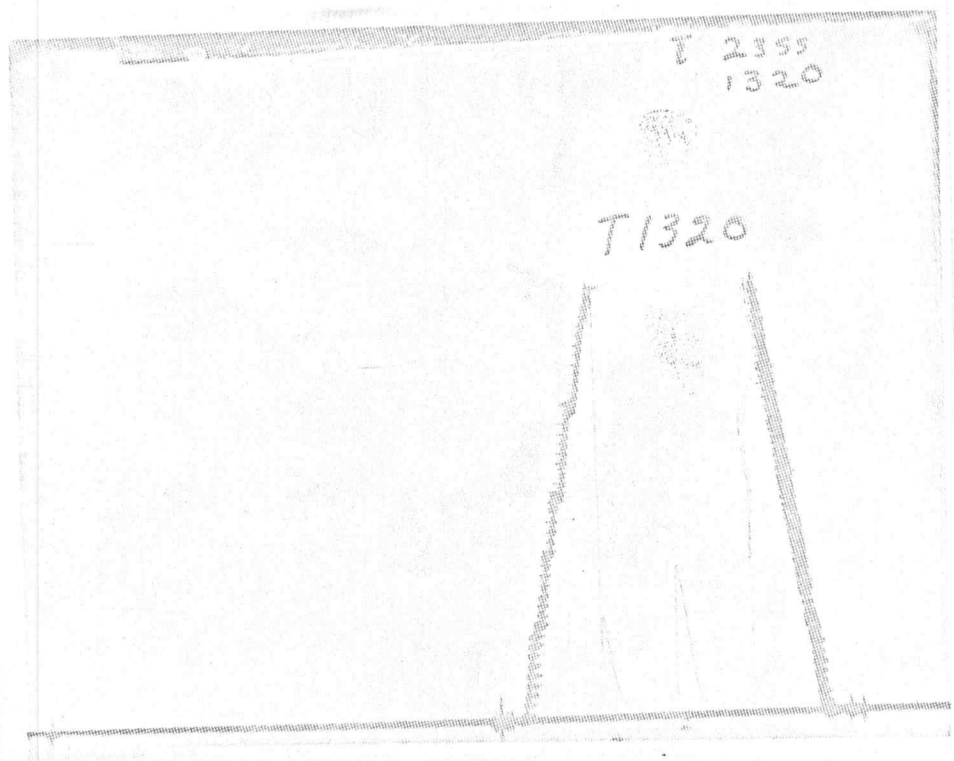




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