

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease Vopat	Well No. E-3	Date 6/1/72
County Ellsworth Sec. 21	Twp. 14 Rng. 10W	Elevation 1732
Company A. J. Gorski		Test No. 1
Contractor Red Tiger Drllg.		Zone Tested Topeka
Charge To A. J. Gorski		Ticket No. 1029
Approved By Toby Elster		Tester Blake

Recorder No. **1760** Depth **2484** Recorder No. **1620** Depth **2487**

Initial Flow Press. **17** To **17** P.S.I. Initial Flow Period **60** Min.

Initial Shut-in Press. **131** P.S.I. Initial Shut-in **60** Min.

Final Flow Press. **9** To **9** P.S.I. Final Flow Period **30** Min.

Final Shut-in Press. **79** P.S.I. Final Shut-in **60** Min.

Initial Hydro Mud Press. **1439** P.S.I. Final Hydro Mud Press. **1432** P.S.I.

Temperature **93**

Mud Weight **10.3** Viscosity **45**

Fluid Loss

Interval Tested **2458** To **2490**

Top Packer Depth **2453** Surface Choke Size **5/8**

Bottom Packer Depth **2458** Bottom Choke Size **5/8**

Total Depth **2490** 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 blow thru-out test**

Recovery **150' gas in pipe**

30' mud with few specks oil

	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								

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Lease Yopat	Well No. E-3	Date 6/1/72
County Ellsworth Sec. 21 Twp. 14 Rng. 10	Elevation 1732	
Company A. J. Gorski	Test No. 2	
Contractor Red Tiger Drilling	Zone Tested Tarkio	
Charge To A. J. Gorski	Ticket No. 1030	
Approved By Toby Elster	Tester Blake	

Recorder No. **1760** Depth **2192** Recorder No. **1620** Depth **2487**

Initial Flow Press. **43** To **31** P.S.I. Initial Flow Period **60** Min.

Initial Shut-in Press. **236** P.S.I. Initial Shut-in **30** Min.

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

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

Initial Hydro Mud Press. **1307** P.S.I. Final Hydro Mud Press. **1290** P.S.I.

Temperature **92**

Mud Weight **10.3** Viscosity **43**

Fluid Loss

Interval Tested **2118** To **2198**

Damage Ratio

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

Initial

Final

Top Packer Depth **2118** Surface Choke Size **5/8**

Bottom Packer Depth **2198** Bottom Choke Size **5/8**

Total Depth **2490** 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 for 22 min. Flush tool 30 min. Weak for 6 min. final flow**

Recovery **20' drilling mud**

	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								

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P.O. Box 169

Great Bend, Kansas 67530

Lease Vopat	Well No. 1-3	Date 6/3/72
County Ellsworth Sec. 21 Twp. 14 Rng. 10W	Elevation 1732	
Company A. J. Gorski	Test No. 3	
Contractor Red Tiger Drig.	Zone Tested Kansas City	
Charge To A. J. Gorski	Ticket No. 1031	
Approved By Toby Elster	Tester Blake	

Recorder No. **1760** Depth **2884** Recorder No. **1620** Depth **2857'**

Initial Flow Press. **40** To **74** P.S.I. Initial Flow Period **60** Min.

Initial Shut-in Press. **426** P.S.I. Initial Shut-in **60** Min.

Final Flow Press. **89** To **110** P.S.I. Final Flow Period **60** Min.

Final Shut-in Press. **416** P.S.I. Final Shut-in **60** Min.

Initial Hydro Mud Press. **1593** P.S.I. Final Hydro Mud Press. **1582** P.S.I.

Temperature **109**

Mud Weight **10.2** Viscosity **44**

Fluid Loss

Interval Tested **2857** To **2890**

Damage Ratio

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

Initial

Final

Top Packer Depth **2852** Surface Choke Size

Bottom Packer Depth **2857** Bottom Choke Size **5/8**

Total Depth **2890** 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 **Good blow thru-out test**

Recovery **900' gas in pipe**

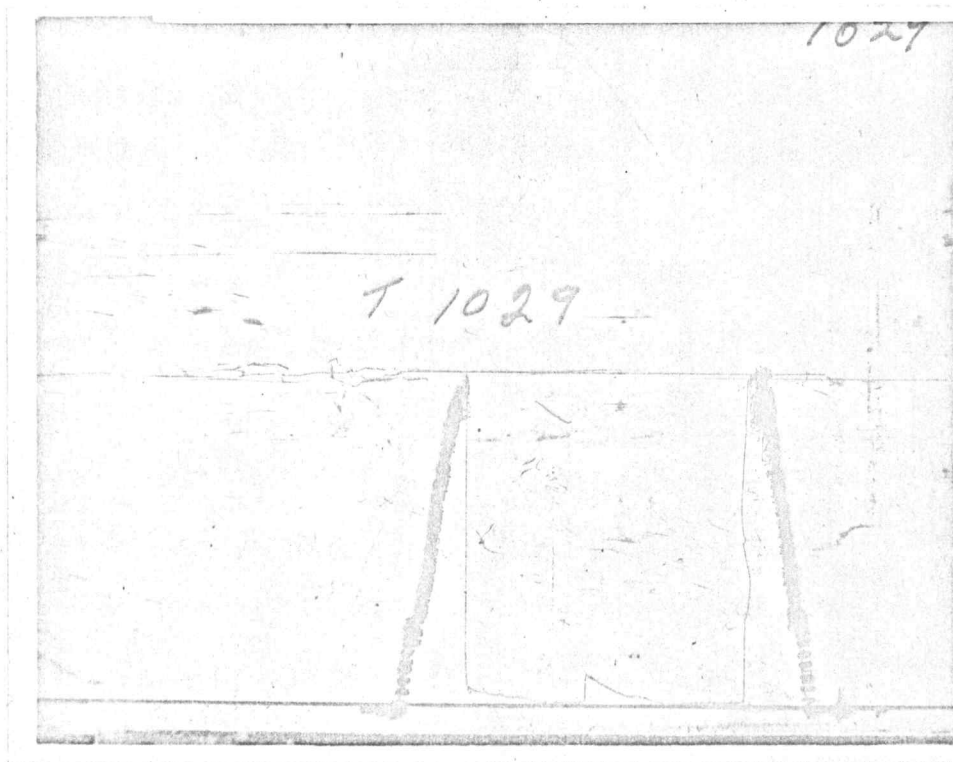
60' oil & gas cut mud 60' heavy oil & gas cut mud

120' gassy oil

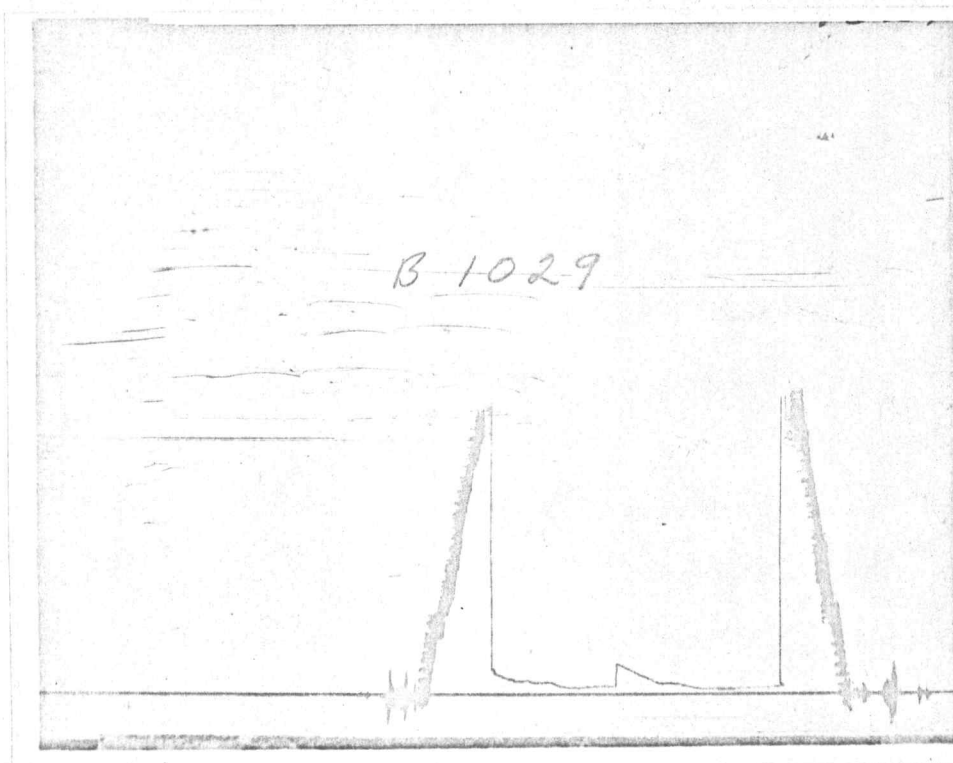
	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								

TEST NUMBER 1

TICKET NUMBER 1029



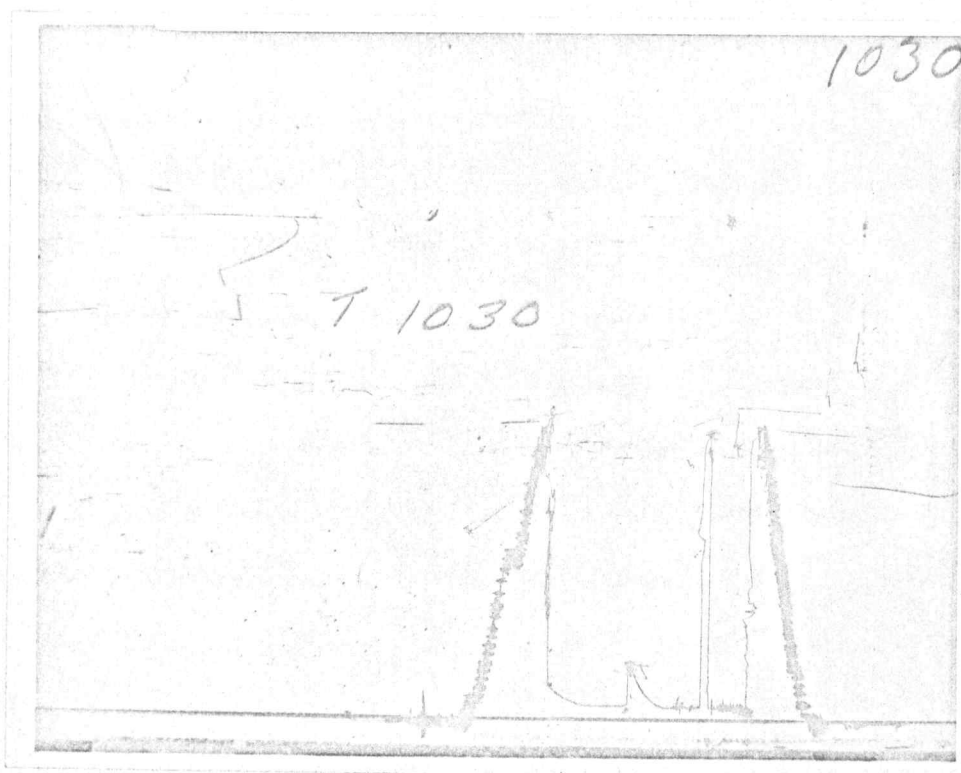
TOP



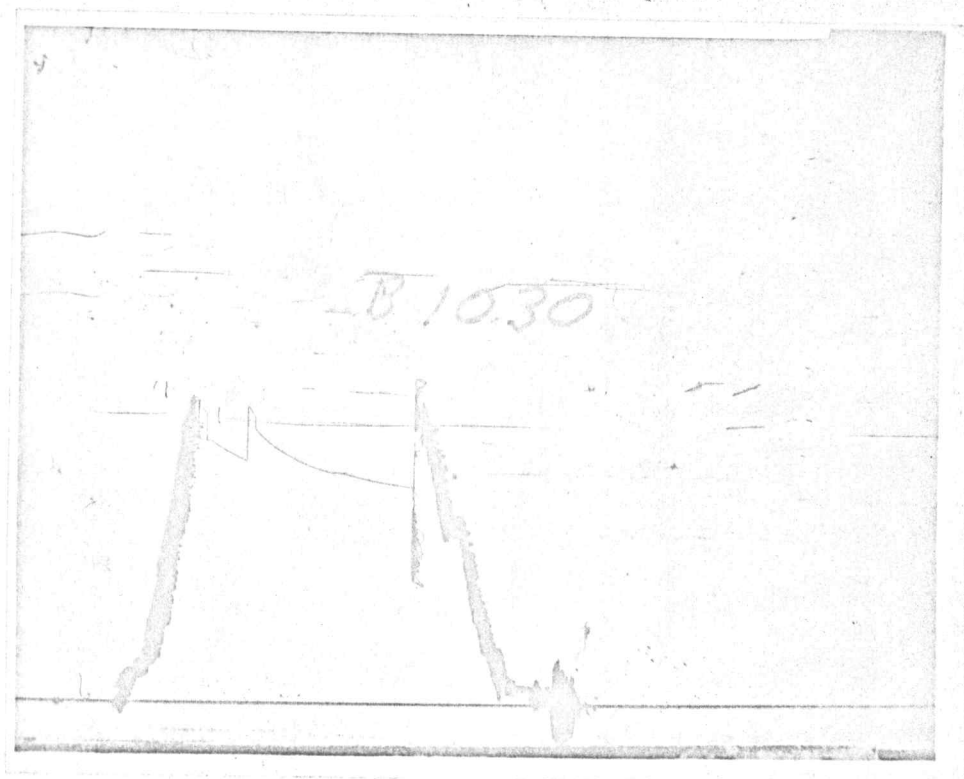
BOTTOM

TEST NUMBER 2

TICKET NUMBER 1030



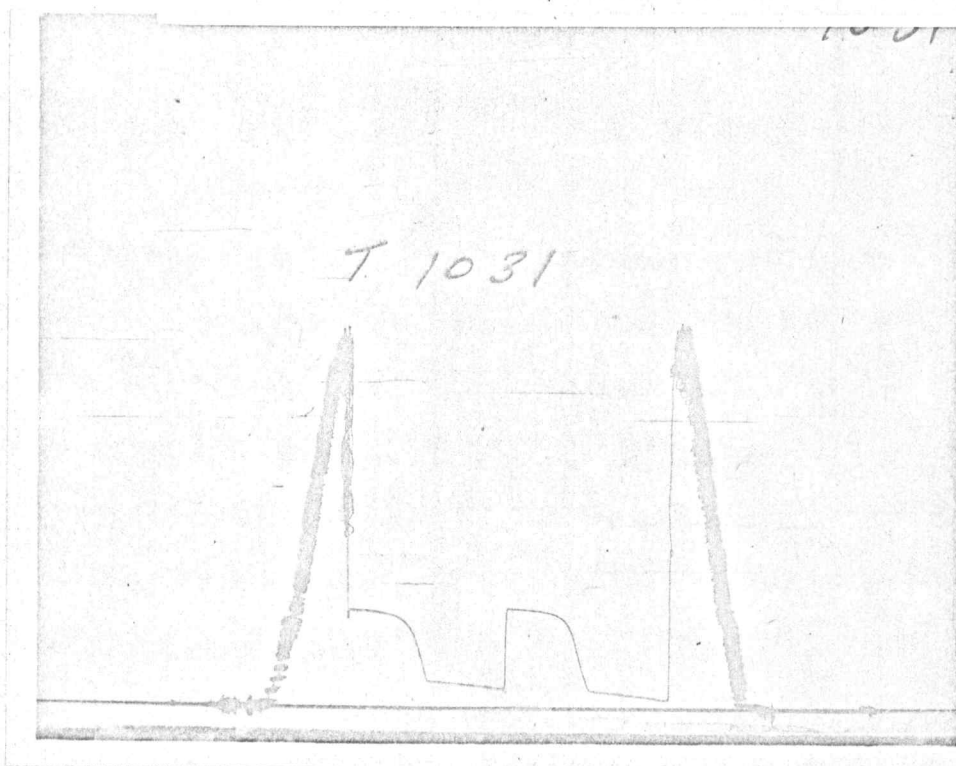
TOP



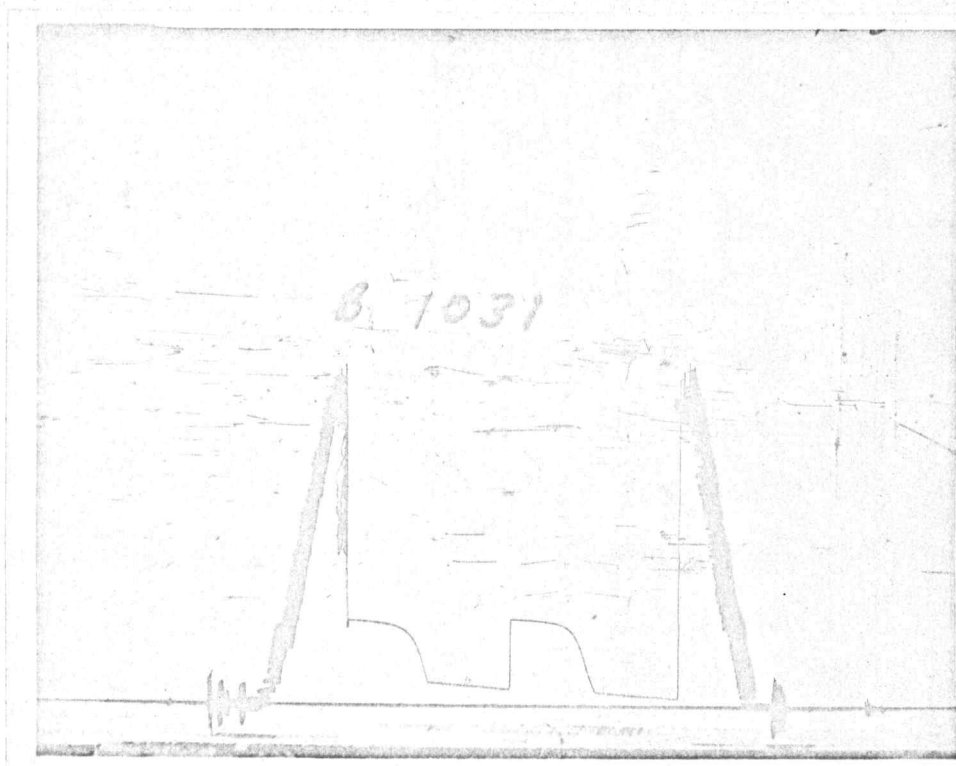
BOTTOM

TEST NUMBER 3

TICKET NUMBER 1031



TOP



BOTTOM