



Sun OILWELL CEMENTING, INC.

POST OFFICE BOX 169

GREAT BEND, KANSAS 67530

DRILL STEM TEST REPORT

REC'D DEC 19 1972

LEASE HOLT WELL NO. 1

SEC. 27 TWP. 19 RNG. 10

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease	Molt	Well No. 1	Date	12/9/72
County	Ellsworth	Sec. 27 Twp. 19 Rng. 10	Elevation	
Company	Glen Rupe		Test No.	1
Contractor	Jet Drilling		Zone Tested	Topoka
Charge To	Glen Rupe		Ticket No.	1136
Approved By	Richard M. Foley		Tester	Benson

Recorder No. **3600** Depth **2396** Recorder No. **3400** Depth **2429**

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

Initial Shut-in Press. **136** P.S.I. Initial Shut-in **30** Min.

Final Flow Press. **37** To **42** P.S.I. Final Flow Period **90** Min.

Final Shut-in Press. **131** P.S.I. Final Shut-in **30** Min.

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

Temperature **86**

Mud Weight **9.8** Viscosity **49**

Fluid Loss

Interval Tested **2401** To **2431**

Damage Ratio

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

Initial

Final

Top Packer Depth **2401** Surface Choke Size **3/8**

Bottom Packer Depth **---** Bottom Choke Size **3/8**

Total Depth **2431** Main Hole Size **7 7/8**

Drill Pipe Size Wt Rubber Size **6 3/4**

Drill Collar I.D. Ft. Run

Blow **Strong blow thruout test**

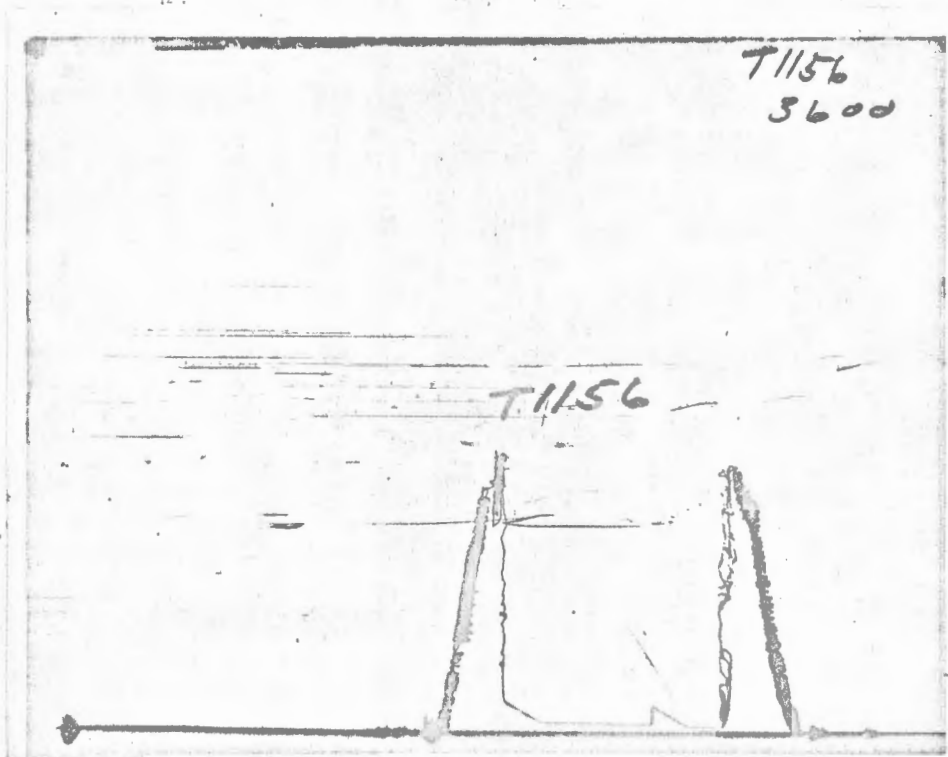
Recovery **120' gas in pipe**

65' mud low specks oil

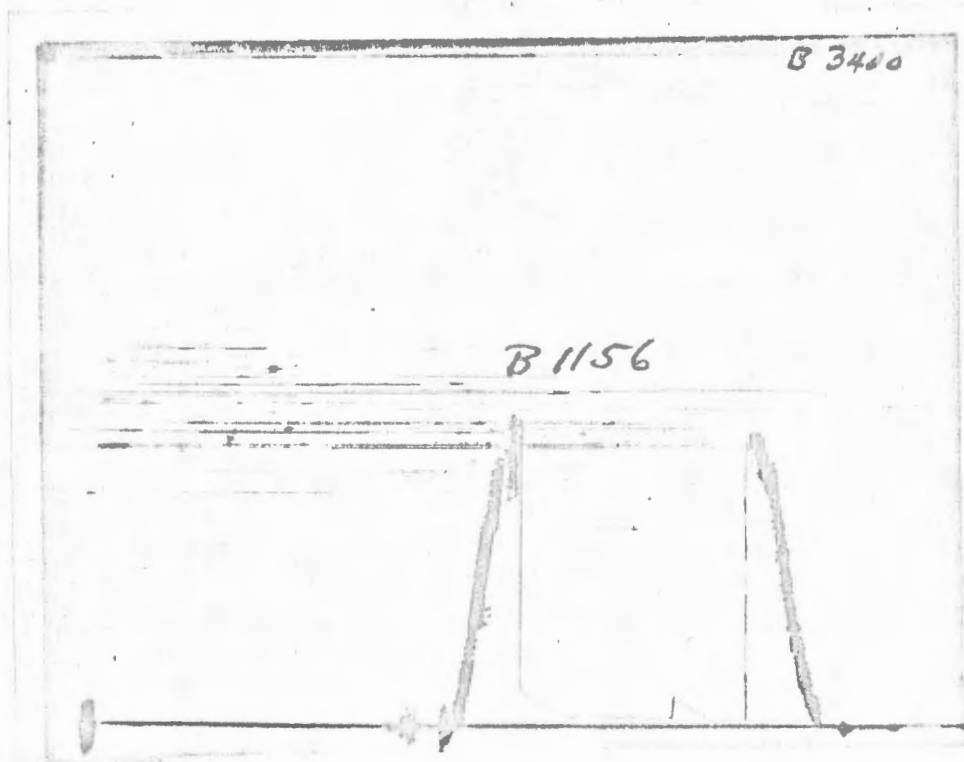
	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								

TEST NO. 1

TICKET NO. 1156



TOP



P.O. Box 169

Great Bend, Kansas 67530

Lease <u>HOLT</u>	Well No. <u>1</u>	Date <u>12-9-72</u>
County <u>ELLSWORTH</u>	Sec. <u>27</u>	Twp. <u>19</u>
Rng. <u>10</u>	Elevation	
Company <u>GLEN RIFE</u>	Test No. <u>1</u>	
Contractor <u>JET DRILLING</u>	Zone Tested <u>TOPEKA</u>	
Charge To <u>GLEN RIFE</u>		
Approved By	Tester <u>W. H. Bowman</u>	

Recorder No. 3100 Clock Range 12 Recorder No. 3400 Clock Range 12Depth 2396 Depth 2429Initial Hydro Mud Press. 1346 P.S.I.Initial Flow Press. 25 To 25 P.S.I. Initial Flow Period 30 Min.Initial Shut-in Press. 133 P.S.I. Initial Shut-in 30 Min.Final Flow Press. 41 To 50 P.S.I. Final Flow Period 90 Min.Final Shut-in Press. 142 P.S.I. Final Shut-in 30 Min.

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

Temperature 86Mud Weight 9.8 Viscosity 47

Fluid Loss _____

Interval Tested 2401 To 2431

Price Job
Other Charges <u>SUMCO</u>
Total

Top Packer Depth 2401 Surface Choke Size 5/8Bottom Packer Depth _____ Bottom Choke Size 5/8Total Depth 2431 Main Hole Size 7 7/8Drill Pipe Size _____ Wt _____ Rubber Size 6 3/4

Drill Collar I.D. _____ Ft. Run _____

Blow STRONG BLOW TAKE-OUT TESTRecovery 120' GAS IN PIPE 65' MUD FEW SPECKS OIL

Remarks _____

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease Holt	Well No. 1	Date 12/11/72
County Ellsworth Sec. 27 Twp. 19 Rng. 10		Elevation
Company Glen Raps		Test No. 2
Contractor Jet Drilling		Zone Tested K.C. (80')
Charge To Glen Raps		Ticket No. 1137
Approved By Richard M. Foley		Tester Bowman

Recorder No. **3400** Depth **2855** Recorder No. **3400** Depth **2870**

Initial Flow Press. **33** To **62** P.S.I. Initial Flow Period **30** Min.

Initial Shut-in Press. **987** P.S.I. Initial Shut-in **30** Min.

Final Flow Press. **77** To **186** P.S.I. Final Flow Period **150** Min.

Final Shut-in Press. **963** P.S.I. Final Shut-in **30** Min.

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

Temperature **102**

Mud Weight **10** Viscosity **43**

Fluid Loss

Interval Tested **2840** To **2872**

Damage Ratio

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

Initial

Final

Top Packer Depth **2840** Surface Choke Size **3/8**

Bottom Packer Depth **----** Bottom Choke Size **3/8**

Total Depth **2872** Main Hole Size **7 7/8**

Drill Pipe Size Wt Rubber Size **6 3/4**

Drill Collar I.D. Ft. Run

Blow **Strong blow throat test**

Recovery **120' gas in pipe**

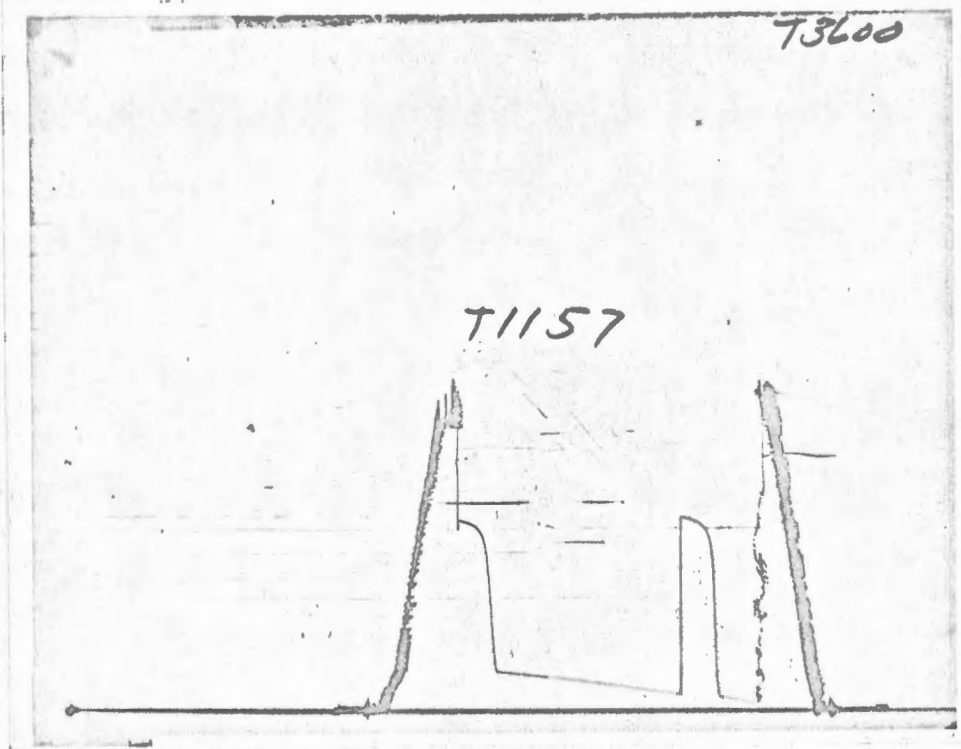
5' oil

365' muddy water w/oil throat

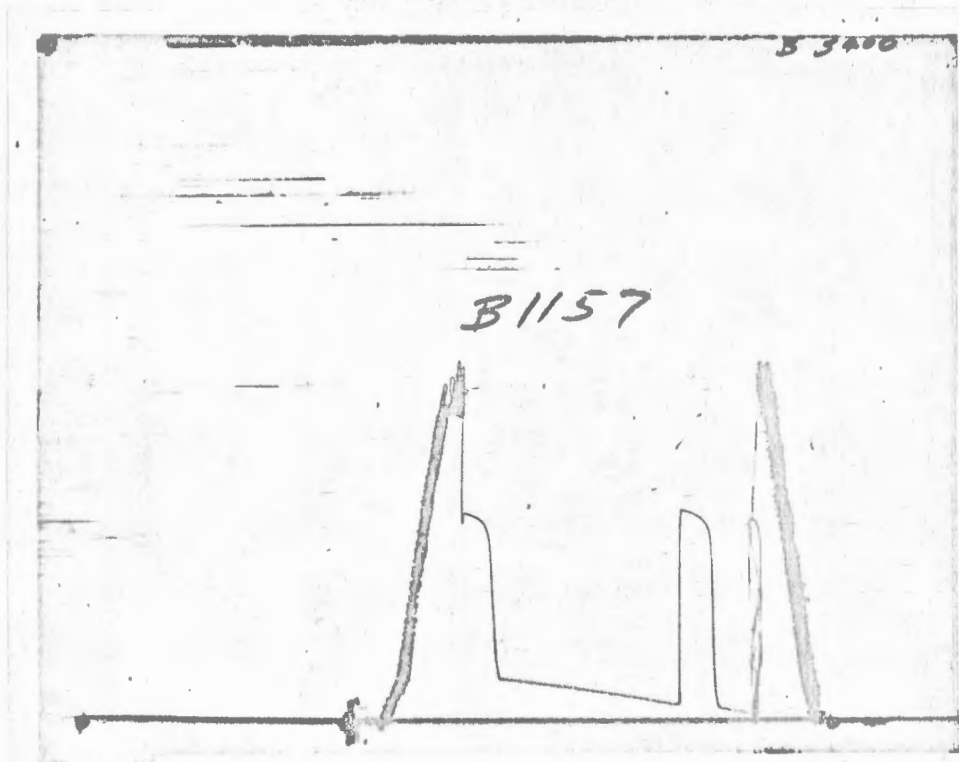
	First Flow		Initial Shut-in		Second Flow		Final Shut-in	
	Min.	Press.	Min.	Press.	Min.	Press.	Min.	Press.
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								

TEST NO. 2

TICKET NO. 1157



TOP



P.O. Box 169

Great Bend, Kansas 67530

Lease <u>HOLT</u>	Well No. <u>1</u>	Date <u>12-11-72</u>
County <u>ELSWORTH</u>	Sec. <u>27</u> Twp. <u>17</u> Rng. <u>10</u>	Elevation
Company <u>GLEN RUPE</u>		Test No. <u>2</u>
Contractor <u>JET DRILL</u>		Zone Tested <u>KC (80')</u>
Charge To <u>GLEN RUPE</u>		<u>015</u>
Approved By <u>[Signature]</u>		Tester <u>[Signature]</u>

Recorder No. 3400 Clock Range 12 Recorder No. 3400 Clock Range 12Depth 2855 Depth 2870Initial Hydro Mud Press. 1178 P.S.I.Initial Flow Press. 38 To 66 P.S.I. Initial Flow Period 30 Min.Initial Shut-in Press. 1023 P.S.I. Initial Shut-in 30 Min.Final Flow Press. 76 To 207 P.S.I. Final Flow Period 150 Min.Final Shut-in Press. 996 P.S.I. Final Shut-in 30 Min.

Final Hydro Mud Press. _____ P.S.I. Price Job _____

Temperature 102 Other Charges _____Mud Weight 10 Viscosity 43 _____

Fluid Loss _____

Interval Tested 2860 To 2872 Total _____Top Packer Depth 2860 Surface Choke Size 5 7/8Bottom Packer Depth _____ Bottom Choke Size 5 7/8Total Depth 2872 Main Hole Size 7 7/8Drill Pipe Size _____ Wt _____ Rubber Size 6 3/4

Drill Collar I.D. _____ Ft. Run _____

Blow STRONG BLOW TANK-OUT TESTRecovery 5' OIL 365' MUDDY WATER W/ SCHMOILWillie didn't put down the gns TANK-OUT

Remarks _____

Sun Oil Well Cementing, Inc.

DRILL STEM TEST DATA

P.O. Box 169

Great Bend, Kansas 67530

Lease Wolt	Well No. 1	Date 12/11/72
County Ellsworth	Sec. 27 Twp. 19 Rng. 10	Elevation
Company Glen Rupe		Test No. 3
Contractor Jet Drilling		Zone Tested K.C. (90')
Charge To Glen Rupe		Ticket No. 1158
Approved By Richard Foley		Tester Bosman

Recorder No. **3600** Depth **2870** Recorder No. **3600** Depth

Initial Flow Press. **16** To **20** P.S.I. Initial Flow Period **30** Min.

Initial Shut-in Press. **850** P.S.I. Initial Shut-in **30** Min.

Final Flow Press. **27** To **29** P.S.I. Final Flow Period **60** Min.

Final Shut-in Press. **560** P.S.I. Final Shut-in **30** Min.

Initial Hydro Mud Press. **1676** P.S.I. Final Hydro Mud Press. P.S.I.

Temperature

Mud Weight **10** Viscosity **42**

Fluid Loss

Interval Tested **2875** To **2880**

Damage Ratio

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

Initial

Final

Top Packer Depth **2875** 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 Wt Rubber Size **6 3/4**

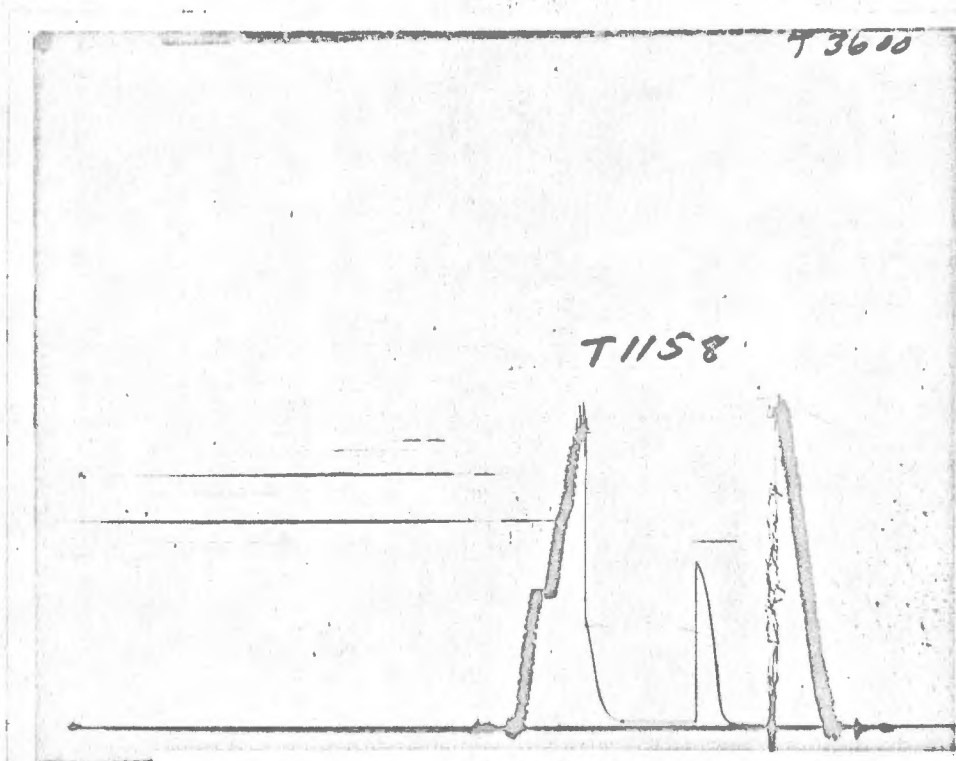
Drill Collar I.D. Ft. Run
Blow **Weak blow - dead in 60 min.**

Recovery **30' gas out 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.								

TEST NO. 3

TICKET NO. 1158



TOP

Lease <u>HOLT</u>	Well No. <u>1</u>	Date <u>12-11-72</u>
County <u>ELLISWORTH</u> Sec. <u>27</u> Twp. <u>19</u> Rng. <u>10</u>	Elevation	
Company <u>GLEN RUPE</u>	Test No. <u>3</u>	
Contractor <u>J.E.T. DILL</u>	Zone Tested <u>KC. (90')</u>	
Charge To <u>GLEN RUPE</u>		
Approved By <u>[Signature]</u>	Tester <u>[Signature]</u>	

Recorder No. 3600 Clock Range 12 Recorder No. _____ Clock Range _____Depth 2870 Depth _____Initial Hydro Mud Press. 1676 P.S.I.Initial Flow Press. 19 To 28 P.S.I. Initial Flow Period 30 Min.Initial Shut-in Press. 875 P.S.I. Initial Shut-in 30 Min.Final Flow Press. 38 To 47 P.S.I. Final Flow Period 60 Min.Final Shut-in Press. 570 P.S.I. Final Shut-in 30 Min.

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

Temperature _____

Mud Weight 10 Viscosity 42

Fluid Loss _____

Interval Tested 2875 To 2880 TotalTop Packer Depth 2875 Surface Choke Size 5/8Bottom Packer Depth _____ Bottom Choke Size 5/8Total Depth 2880 Main Hole Size 7/8Drill Pipe Size _____ Wt _____ Rubber Size 130

Drill Collar I.D. _____ Ft. Run _____

Blow WPAK BLOW DEAL IN 60 MIN.Recovery 30' GAS CUT MUD

Remarks _____