# Sun Oil Well Cementing, Inc.

P.O. Box 169 Great Bend, Kansas 67530

## DRILL STEM TEST DATA

| | |
|---|---|
| Lease Ptacek Well No. 1 | Date 9-23-73 |
| County Ellsworth Sec. 15 Twp. 14 Rng. 10 | Elevation |
| Company L. G. Stephenson | Test No. 1 |
| Contractor Duke Drilling | Zone Tested |
| Charge To L. G. Stephenson | 1413 |
| Approved By Richard M. Foley | Tester Willie Bowman 0-14 |

Recorder No. 3600 Clock Range 12 Recorder No. 34008 Clock Range 12

Depth 2152 Depth 2178

Initial Hydro Mud Press. 1218 P.S.I.

Initial Flow Press. 35 To 40 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 729 • P.S.I. Initial Shut-in 60 Min.

Final Flow Press. 46 To 40 P.S.I. Final Flow Period 60 Min.

Final Shut-in Press. 678 • P.S.I. Final Shut-in 60 Min.

Final Hydro Mud Press. 1218 P.S.I.

Damage Ratio

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

Initial

Final

Temperature 91

Mud Weight 10.2 Viscosity 43

Fluid Loss 8.8

Interval Tested 2157 To 2180

Top Packer Depth 2157 Surface Choke Size 5/8

Bottom Packer Depth Bottom Choke Size 5/8

Total Depth 2180 Main Hole Size 7 7/8

Drill Pipe Size 4½xH Wt 4½ F.H. Rubber Size 6 3/4

Drill Collar I.D. Ft. Run

Blow Strong blow thru-out test

Recovery Gas to surface in 10 min. Gas 55.200 Gas. 63.500 in 20 min. 70.000 in 30 min.

60' Gas GA. 108.000 on final open Ga 85.200 in 40 min. Ga. 85.200 in 50 min.

& Mud GA 81.600 in 60 min. GA. 77.500 in 70 min. GA 77.500 80 min. 77.5000 90 min.

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

# DRILL STEM TEST DATA

**Sun Oil Well Cemeting, Inc.**

P.O. Box 169 Great Bend, Kansas 67530

| | |
|---|---|
| Lease Ptacek Well No. 1 | Date 9-25-73 |
| County Ellsworth Sec. 15 Twp. 14 Rng. 10 | Elevation |
| Company L. G. Stephenson | Test No. 2 |
| Contractor Duke Drilling | Zone Tested |
| Charge To L. G. Stephenson | 1414 |
| Approved By Richard M. Foley | Tester Willie Bowman 0-14 |

Recorder No. 3600 Clock Range 12 Recorder No. 3400 Clock Range 12

Depth 2507 Depth 2538

Initial Hydro Mud Press. 1472 P.S.I.

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

Initial Shut-in Press. 62 P.S.I. Initial Shut-in 45 Min.

Final Flow Press. 28 To 28 P.S.I. Final Flow Period 90 Min.

Final Shut-in Press. 99 P.S.I. Final Shut-in 60 Min.

Final Hydro Mud Press. 1469 P.S.I.

Temperature 93

Mud Weight 10.4 Viscosity 48

Fluid Loss 12.8

Interval Tested 2512 To 2540

Damage Ratio

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

Initial

Final

Top Packer Depth 2512 Surface Choke Size 5/8

Bottom Packer Depth Bottom Choke Size 5/8

Total Depth 2540 Main Hole Size 7 7/8

Drill Pipe Size 4½xH Wt 4½ f.h. Rubber Size 6 3/4

Drill Collar I.D. Ft. Run

Blow Good blow thru-out test

Recovery 240' Gas in Pipe 5' Gas 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 Cemeting, Inc.

# DRILL STEM TEST DATA

P.O. Box 169 Great Bend, Kansas 67530

| | |
|---|---|
| Lease **PTacek** Well No. **1** | Date **9-26-73** |
| County **Ellsworth** Sec. **15** Twp. **14** Rng. **10** | Elevation |
| Company **L. G. Stephenson** | Test No. **3** |
| Contractor **Duke Drilling** | Zone Tested **K.C. (30' Zone)** |
| Charge To **L. G. Stephenson** | **1415** |
| Approved By **Richard M. Foley** | Tester **Willie Bowman 014** |

Recorder No. **3600** Clock Range **12** Recorder No. **3400** Clock Range **12**

Depth **2897** Depth **2926**

Initial Hydro Mud Press. **1718** P.S.I.

Initial Flow Press. **25** To **42** P.S.I. Initial Flow Period **30** Min.

Initial Shut-in Press. **570** P.S.I. Initial Shut-in **60** Min.

Final Flow Press. **53** To **140** P.S.I. Final Flow Period **270** Min.

Final Shut-in Press. **532** P.S.I. Final Shut-in **60** Min.

Final Hydro Mud Press. **1669** P.S.I.

Temperature **106**

Mud Weight **10.7** Viscosity **48**

Fluid Loss

Interval Tested **2902** To **2928**

Damage Ratio

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

Initial

Final

Top Packer Depth **2902** Surface Choke Size **5/8**

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

Total Depth **2928** Main Hole Size **7 7/8**

Drill Pipe Size **4½xH** Wt **4½ F.H.** Rubber Size **6 3/4**

Drill Collar I.D. Ft. Run

Blow **Fair blow thru-out test**

Recovery **25' Gassy watery mud (5' sli. oil cut muddy)**

**water 240' muddy water**

| 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.

P.O. Box 169 Great Bend, Kansas 67530

# DRILL STEM TEST DATA

| | |
|---|---|
| Lease Ptacek Well No. 1 | Date 9-27-73 |
| County Ellsworth Sec. 15 Twp. 14 Rng. 10 | Elevation |
| Company L. G. Stephenson | Test No. 4 |
| Contractor Duke Drilling | Zone Tested K.C.B |
| Charge To L. G. Stephenson | 1416 |
| Approved By Richard M. Foley | Tester Willie Bowman |

Recorder No. 3600 Clock Range 12 Recorder No. 3400 Clock Range 12

Depth 2958 298 Depth 2987

Initial Hydro Mud Press. 1698 P.S.I.

Initial Flow Press. 25 To 42 P.S.I. Initial Flow Period 30 Min.

Initial Shut-in Press. 494 P.S.I. Initial Shut-in 60 Min.

Final Flow Press. 60 To 127 P.S.I. Final Flow Period 180 Min.

Final Shut-in Press. 455 P.S.I. Final Shut-in 60 Min.

Final Hydro Mud Press. 1647 P.S.I.

Temperature

Mud Weight 10.7 Viscosity 41

Fluid Loss

Interval Tested 2963 To 2989

Damage Ratio

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

Initial

Final

Top Packer Depth 2963 Surface Choke Size 5/8

Bottom Packer Depth Bottom Choke Size 5/8

Total Depth 2989 Main Hole Size 7 7/8

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

Drill Collar I.D. Ft. Run

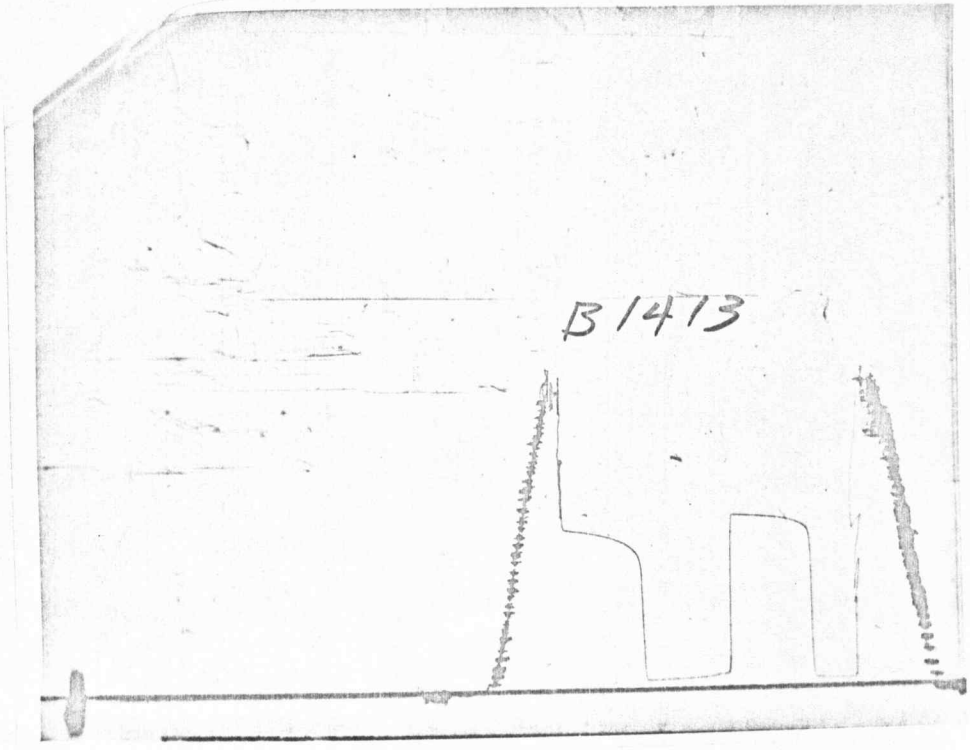
Blow Good blow thru-out test

Recovery 30' thin gassy watery mud

180' muddy water

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


BOTTOM



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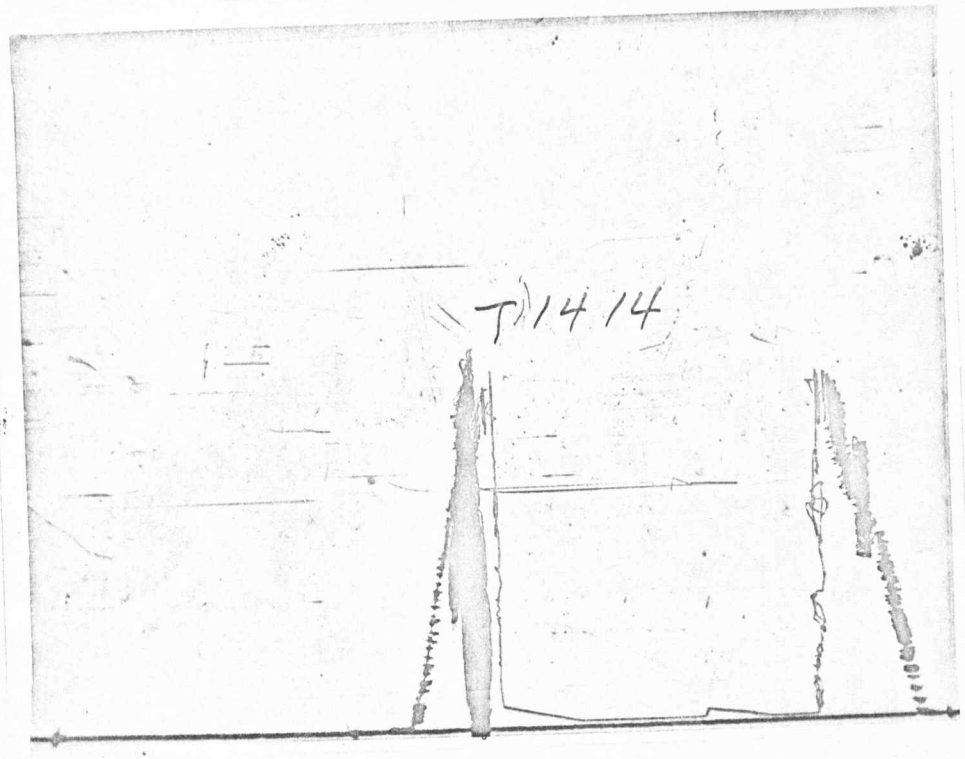


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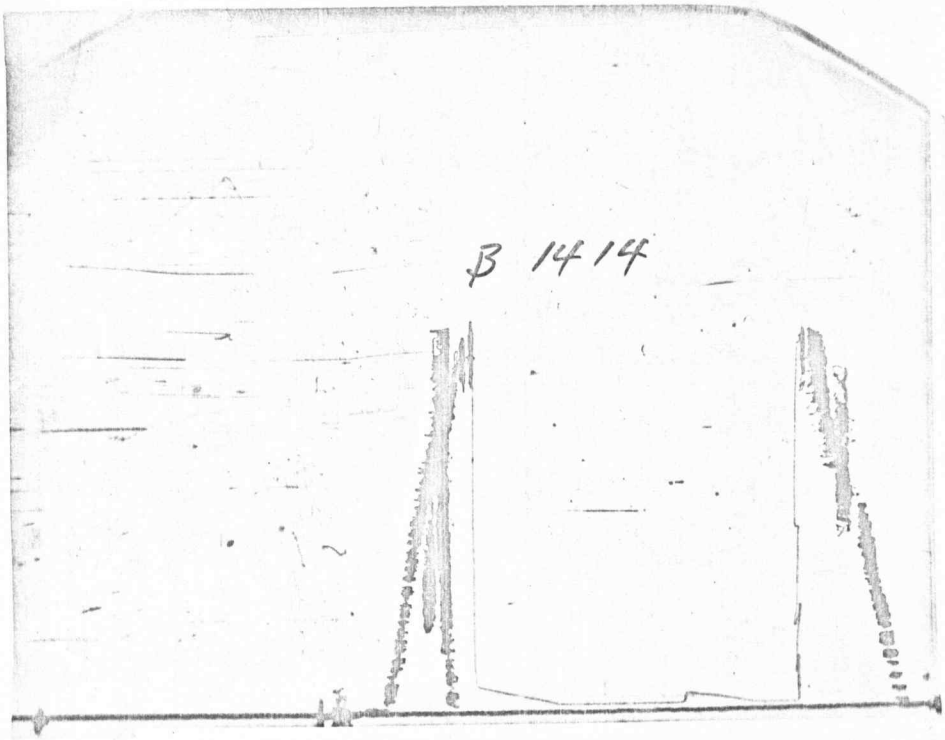

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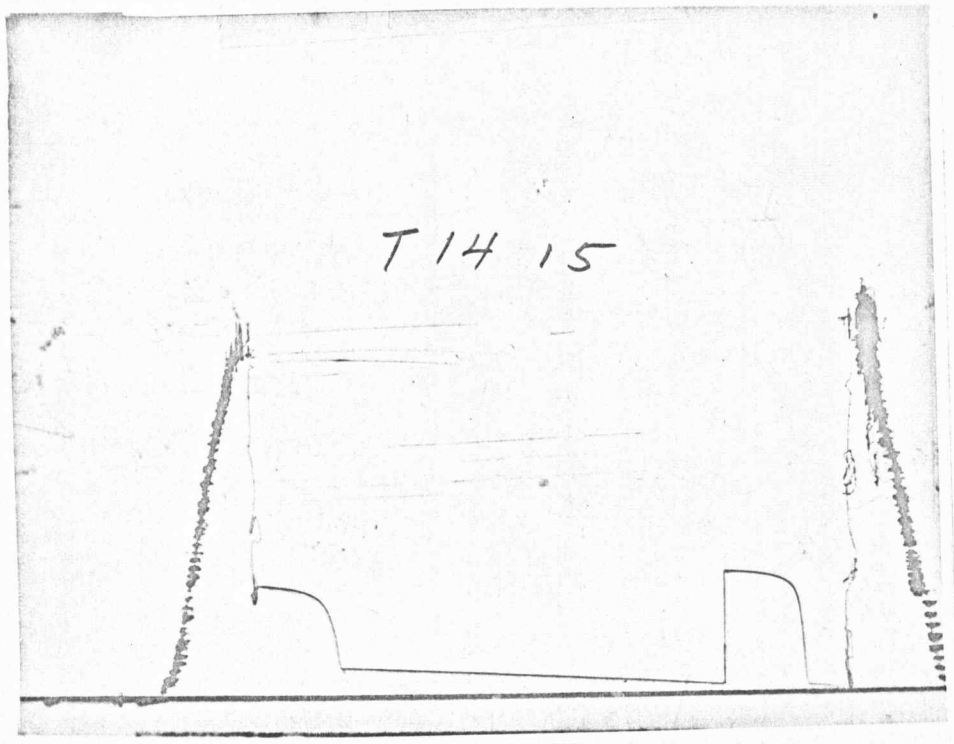


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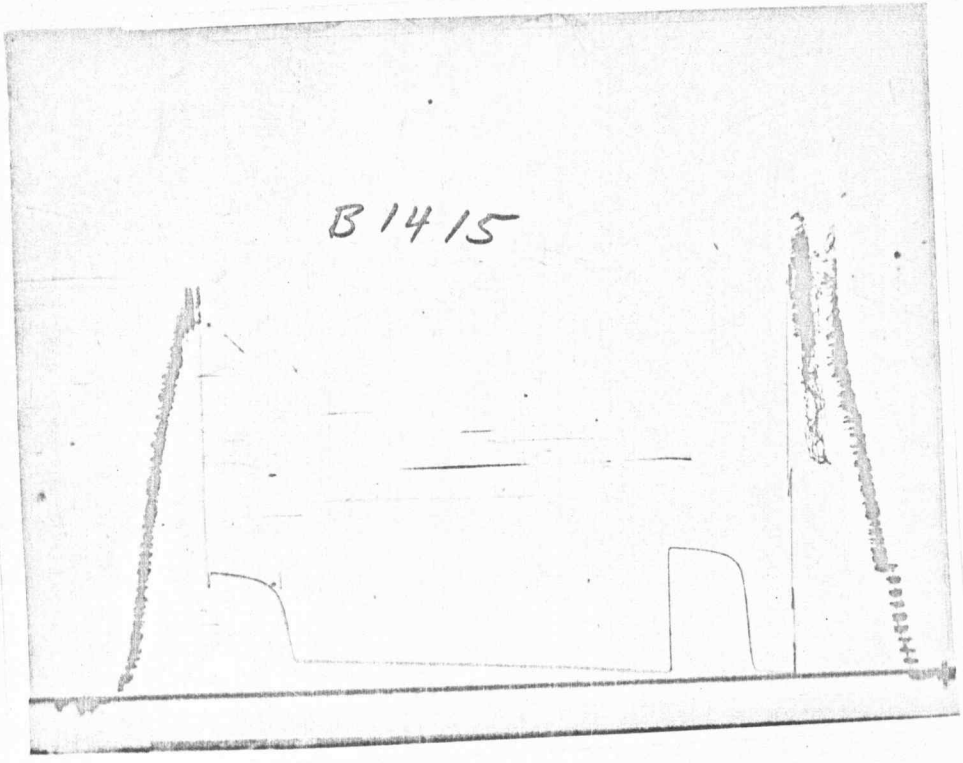

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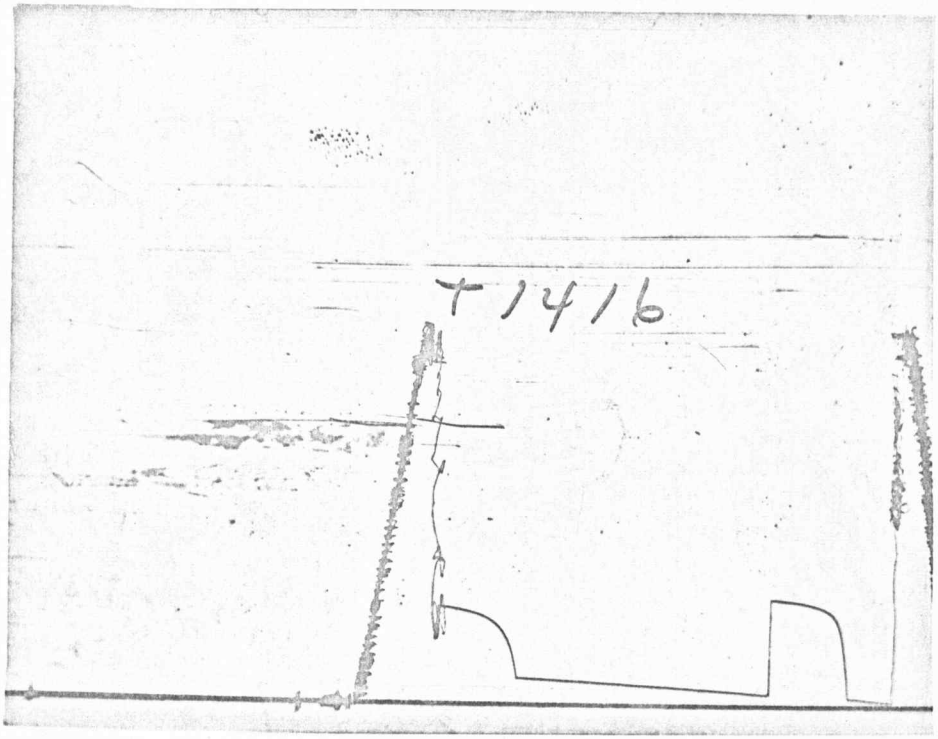


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