

Well Name: HEYEN #1
Company : WANKER OIL COMPANY
Location - Sec: 5 **Twp:** 11S **Rge:** 32W
County: LOGAN **State:** KS
Date: 12/19/95

TRILOBITE TESTING L.L.C.

OPERATOR : Wanker Oil Company

DATE 12-19-95

WELL NAME: Heyen #1

KB 3092.00 ft

TICKET NO: 8672

DST #1

LOCATION : 05-11S-32W, Logan Cty KS

GR 3084.00 ft

FORMATION: Johnson Zone

INTERVAL : 4579.00 To 4628.00 ft

TD 4628.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

| Mins | Field | 1 | 2 | 3 | 4 | TIME DATA----- |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 15 Rec. | 24174 | 24174 | 10994 | | | PF Fr. 1700 to 1715 hr |
| SI 30 Range(Psi) | 3050.0 | 3050.0 | 0.0 | 0.0 | 0.0 | IS Fr. 1715 to 1745 hr |
| SF 0 Clock(hrs) | AK-1 | AK-1 | AK-1 | | | SF Fr. to hr |
| FS 0 Depth(ft) | 4582.0 | 4582.0 | 4623.0 | 0.0 | 0.0 | FS Fr. to hr |

| | Field | 1 | 2 | 3 | 4 | |
|----------------|--------|--------|-----|-----|-----|-------------------|
| A. Init Hydro | 2387.0 | 2398.0 | 0.0 | 0.0 | 0.0 | T STARTED 1546 hr |
| B. First Flow | 22.0 | 29.0 | 0.0 | 0.0 | 0.0 | T ON BOTM 1658 hr |
| B1. Final Flow | 22.0 | 26.0 | 0.0 | 0.0 | 0.0 | T OPEN 1700 hr |
| C. In Shut-in | 22.0 | 26.0 | 0.0 | 0.0 | 0.0 | T PULLED 1745 hr |
| D. Init Flow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T OUT 1915 hr |
| E. Final Flow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| F. Fl Shut-in | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| G. Final Hydro | 2284.0 | 2280.0 | 0.0 | 0.0 | 0.0 | |
| Inside/Outside | I | I | O | | | |

TOOL DATA-----

| | |
|------------------|--------------|
| Tool Wt. | 1450.00 lbs |
| Wt Set On Packer | 20000.00 lbs |
| Wt Pulled Loose | 45000.00 lbs |
| Initial Str Wt | 40000.00 lbs |
| Unseated Str Wt | 40000.00 lbs |
| Bot Choke | 0.75 in |
| Hole Size | 7.88 in |
| D Col. ID | 0.00 in |
| D. Pipe ID | 3.80 in |
| D.C. Length | 0.00 ft |
| D.P. Length | 4566.00 ft |

RECOVERY

| | | | |
|-----------|----------------------|--------------------|---------------|
| Tot Fluid | 1.00 ft of | 0.00 ft in DC and, | 1.00 ft in DP |
| 1.00 | ft of Mud - 100% mud | | |
| 0.00 | ft of | | |
| 0.00 | ft of | | |
| 0.00 | ft of | | |
| 0.00 | ft of | | |
| 0.00 | ft of | | |
| 0.00 | ft of | | |
| 0.00 | ft of | | |

SALINITY 0.00 P.P.M. A.P.I. Gravity 24.00

BLOW DESCRIPTION

Initial Flow -
Weak .25" blow throughout

Final Flow -
None taken

SAMPLES:

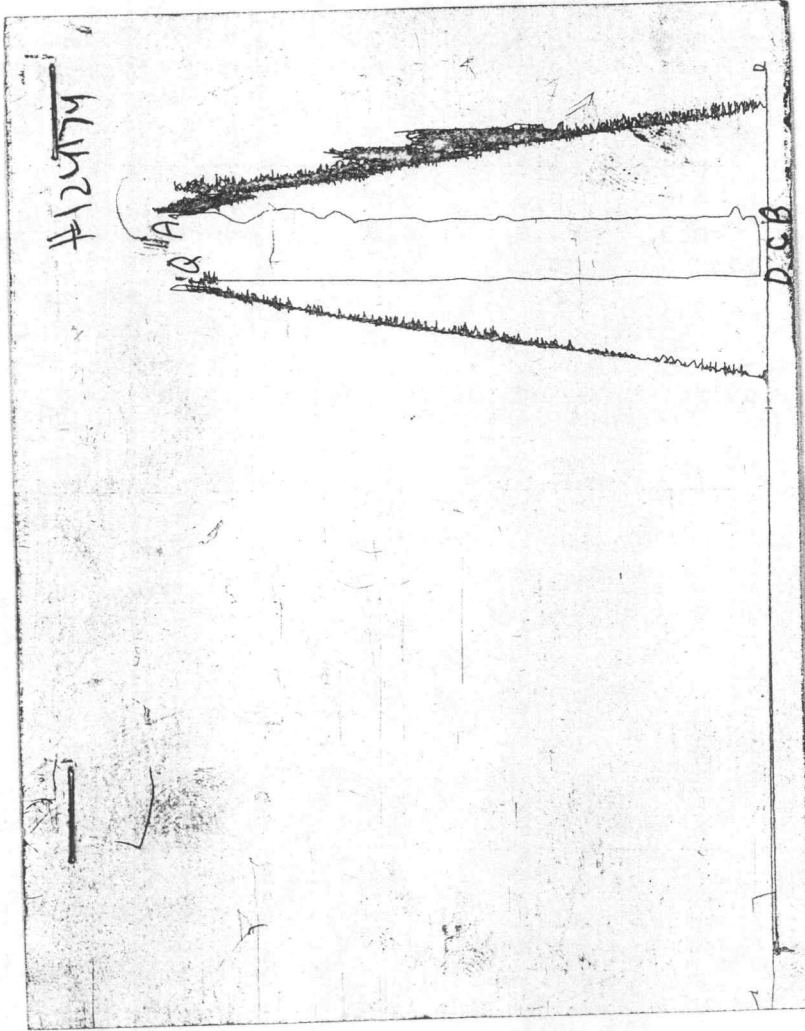
SENT TO:

MUD DATA-----

| Mud Type | Chemical |
|----------------|----------------------|
| Weight | 9.60 lb/c |
| Vis. | 47.00 S/L |
| W.L. | 9.20 in ³ |
| F.C. | 0.00 in |
| Mud Drop N | |
| Amt. of fill | 0.00 ft |
| Btm. H. Temp. | 115.00 F |
| Hole Condition | good |
| % Porosity | 0.00 |
| Packer Size | 6.75 in |
| No. of Packers | 2 |
| Cushion Amt. | 0.00 |
| Cushion Type | |
| Reversed Out N | |
| Tool Chased N | |
| Tester | Paul Simpson |
| Co. Rep. | Jeff Zoller |
| Contr. | Duke |
| Rig # | 4 |
| Unit # | |
| Pump T. | |

Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 8672

Test Ticket

| | | |
|----------------------------------------------|---------------------------------------|----------------------------------------------------------|
| Well Name & No. <u>Hays #1</u> | Test No. <u>1</u> | Date <u>12-19-95</u> |
| Company <u>Wanda Oil Company</u> | Zone Tested <u>Johnson 2 or</u> | |
| Address <u>Rt 2 Box 14 Wakeeney Ks 67675</u> | Elevation <u>3072</u> | KB <u>3084</u> GL |
| Co. Rep / Geo. <u>Mark Torr</u> | Cont. <u>Discovery</u> | Est. Ft. of Pay <u> </u> Por. <u> </u> % |
| Location: Sec. <u>5</u> | Twp. <u>11s</u> | Rge. <u>32w</u> Co. <u>Logan</u> State <u>Ks</u> |
| No. of Copies <u> </u> | Distribution Sheet (Y, N) <u> </u> | Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u> |

| | | |
|-----------------------------------------------------------------|-----------------------------------------|-------------------------------------|
| Interval Tested <u>4579 - 4628</u> | Initial Str Wt./Lbs. <u>40,000</u> | Unseated Str Wt./Lbs. <u>40,000</u> |
| Anchor Length <u>49</u> | Wt. Set Lbs. <u>20,000</u> | Wt. Pulled Loose/Lbs. <u>45,000</u> |
| Top Packer Depth <u>4574</u> | Hole Size — 7 7/8" <u> </u> | Rubber Size — 6 3/4" <u> </u> |
| Bottom Packer Depth <u>4579</u> | Wt. Pipe I.D. — 2.7 Ft. Run <u> </u> | |
| Total Depth <u>4628</u> | Drill Collar — 2.25 Ft. Run <u> </u> | |
| Mud Wt. <u>9.6</u> LCM <u> </u> Vis. <u>47</u> WL <u>9.2</u> | Drill Pipe Size <u>4 1/2 IH</u> | Ft. Run <u>4566</u> <u>73,5</u> |
| Blow Description <u>weak 1/2" blow throughout</u> | | |

ff - none taken

| Recovery — Total Feet | Ft. in DC | Ft. in WP | Ft. in DP | %gas | %oil | %water | %mud |
|--------------------------------------|-----------|-----------|-----------|------|------|--------|------|
| <u>1</u> | | | <u>1</u> | | | | |
| Rec. <u>1</u> Feet Of <u>Mud</u> | | | | | | | |
| Rec. <u> </u> Feet Of <u> </u> | | | | | | | |
| Rec. <u> </u> Feet Of <u> </u> | | | | | | | |
| Rec. <u> </u> Feet Of <u> </u> | | | | | | | |
| Rec. <u> </u> Feet Of <u> </u> | | | | | | | |

| | | | |
|-------------------------------------------------------|---------------------------|----------------------------------|------------------------|
| BHT <u>115</u> °F Gravity <u> </u> | °API D@ <u> </u> | °F Corrected Gravity <u> </u> | °API <u> </u> |
| RW <u> </u> @ <u> </u> °F Chlorides <u> </u> | ppm Recovery <u> </u> | Chlorides <u> </u> | ppm System <u> </u> |
| (A) Initial Hydrostatic Mud <u>2387</u> PSI | Recorder No. <u>24174</u> | T-Started <u>1546</u> | |
| (B) First Initial Flow Pressure <u>22</u> PSI | @ (depth) <u>4582</u> | T-Open <u>1700</u> | |
| (C) First Final Flow Pressure <u>22</u> PSI | Recorder No. <u>10994</u> | T-Pulled <u>1745</u> | |
| (D) Initial Shut-in Pressure <u>22</u> PSI | @ (depth) <u>4623</u> | T-Out <u>1915</u> | |
| (E) Second Initial Flow Pressure <u> </u> PSI | Recorder No. <u> </u> | | |
| (F) Second Final Flow Pressure <u> </u> PSI | @ (depth) <u> </u> | | |
| (G) Final Shut-in Pressure <u> </u> PSI | Initial Opening <u>15</u> | Test <u>600</u> | |
| (H) Final Hydrostatic Mud <u>2284</u> PSI | Initial Shut-in <u>30</u> | Jars <u> </u> | |
| | Final Flow <u> </u> | Safety Joint <u> </u> | |
| | Final Shut-in <u> </u> | Straddle <u> </u> | |

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Approved By [Signature]
Our Representative Jack Simpson

Circ. Sub
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Extra Packer
Elect. Rec.
Other
TOTAL PRICE \$ 600