

DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing, Inc.**

P.O. Box 871
Russell, KS 67665

ATTN: Gary Brungardt

14-10-15 Osborne KS

Wedel #1

Start Date: 2001.04.22 @ 03:25:00

End Date: 2001.04.22 @ 08:15:00

Job Ticket #: 14701 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil & Leasing, Inc.

Wedel #1

P.O. Box 871
Russell, KS 67665

14-10-15 Osborne KS

Job Ticket: 14701 **DST#: 1**

ATTN: Gary Brungardt

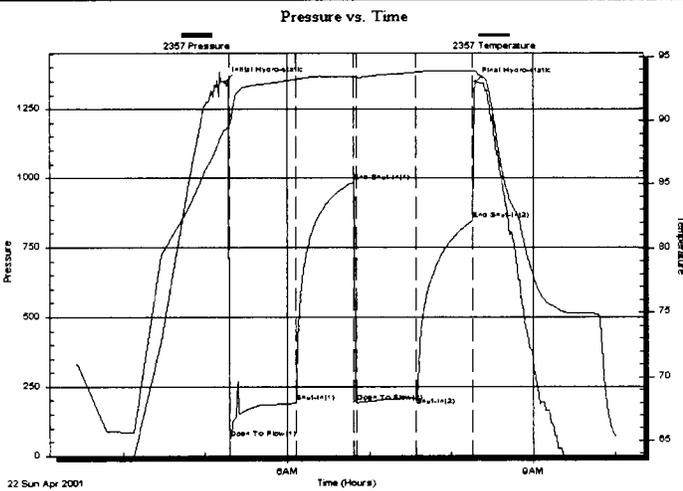
Test Start: 2001.04.22 @ 03:25:00

GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:17:55
 Time Test Ended: 08:15:00
 Interval: **2774.00 ft (KB) To 2810.00 ft (KB) (TVD)**
 Total Depth: 2810.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 21
 Reference Elevations: 1900.00 ft (KB)
 1895.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 2357 Inside
 Press@RunDepth: 209.61 psig @ 2775.01 ft (KB) Capacity: 7000.00 psig
 Start Date: 2001.04.22 End Date: 2001.04.22 Last Calib.: 2001.04.22
 Start Time: 03:25:56 End Time: 10:00:55 Time On Btm: 2001.04.22 @ 05:14:55
 Time Off Btm: 2001.04.22 @ 08:17:55

TEST COMMENT: IF-Strong B O B in 6 min
 FF-Weak building to 1"



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1349.22	89.29	Initial Hydro-static
3	59.87	89.59	Open To Flow (1)
52	191.02	93.21	Shut-In(1)
94	984.70	93.42	End Shut-In(1)
96	192.97	93.38	Open To Flow (2)
140	209.61	93.76	Shut-In(2)
181	845.85	93.86	End Shut-In(2)
183	1346.66	93.82	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
124.00	Muddy water Rw .13 @ 70 = 75000	0.61
20.00	Heavy mud w / cuttings t/o	0.10
248.00	HM w /Oil spots	1.91

Gas Rates			
	Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil & Leasing, Inc.

Wedel #1

P.O. Box 871
Russell, KS 67665

14-10-15 Osborne KS

Job Ticket: 14701

DST#: 1

ATTN: Gary Brungardt

Test Start: 2001.04.22 @ 03:25:00

Tool Information

Drill Pipe:	Length: 2461.00 ft	Diameter: 3.80 inches	Volume: 34.52 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 316.00 ft	Diameter: 2.25 inches	Volume: 1.55 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 36.07 bbl</u>	Tool Chased 20.00 ft
Drill Pipe Above KB:	24.01 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	2774.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.02 ft			
Tool Length:	57.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:
Slid tool 20' to bottom

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			2754.00	
S.I. Tool	5.00			2759.00	
HYD S.I. Tool	5.00			2764.00	
Packer	5.00			2769.00	21.00 Bottom Of Top Packer
Packer	5.00			2774.00	
Stubb	1.00			2775.00	
Recorder	0.01	2357	Inside	2775.01	
Perforations	30.00			2805.01	
Recorder	0.01	13254	Outside	2805.02	
Bullnose	5.00			2810.02	36.02 Bottom Packers & Anchor
Total Tool Length:	57.02				



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing, Inc.

Wedel #1

P.O. Box 871
Russell, KS 67665

14-10-15 Osborne KS

Job Ticket: 14701

DST#: 1

ATTN: Gary Brungardt

Test Start: 2001.04.22 @ 03:25:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 37.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.75 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Muddy w ater Rw .13 @ 70 = 75000	0.610
20.00	Heavy mud w / cuttings t/o	0.098
248.00	HM w /Oil spots	1.912

Total Length: 392.00 ft Total Volume: 2.620 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

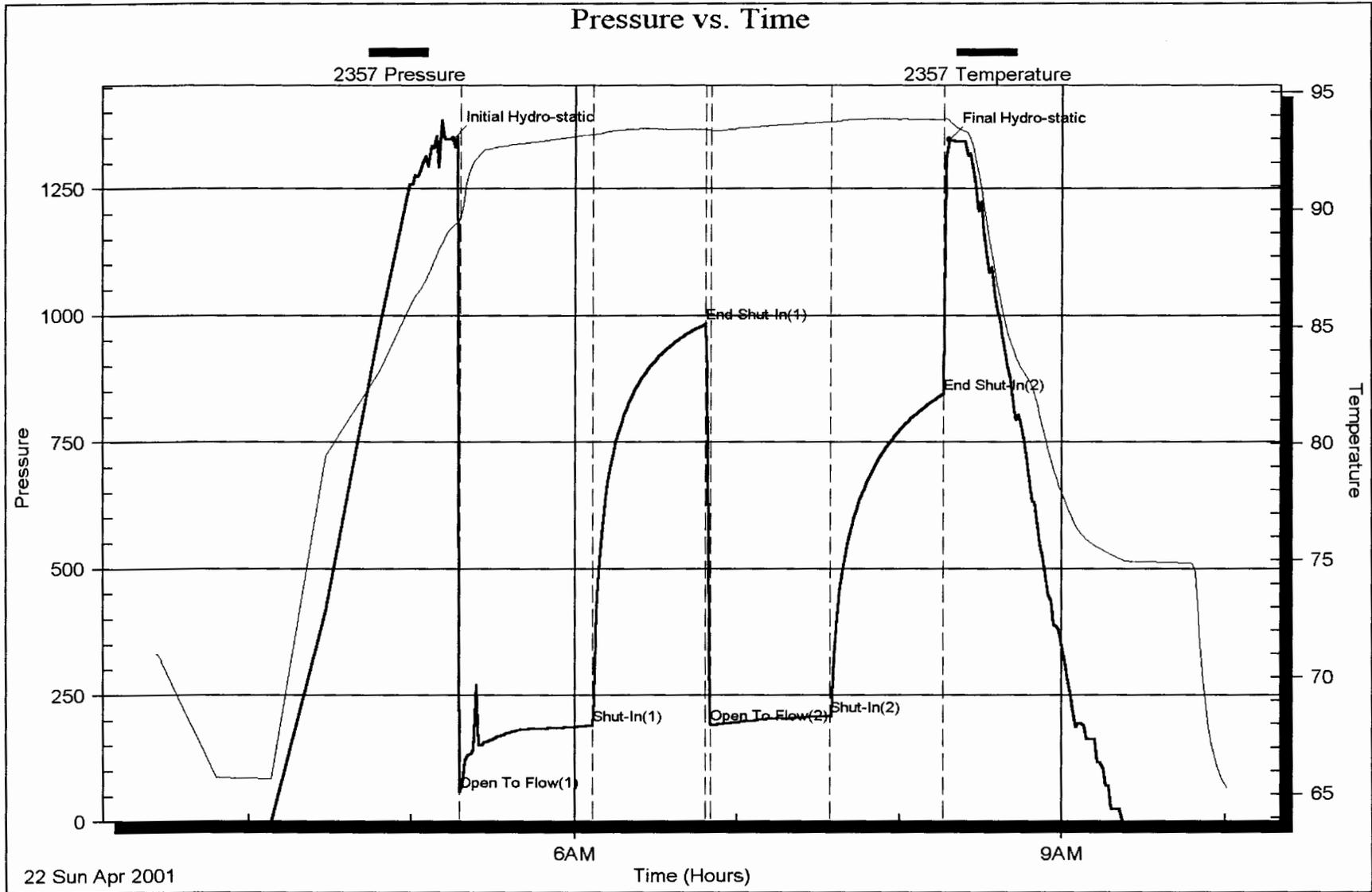
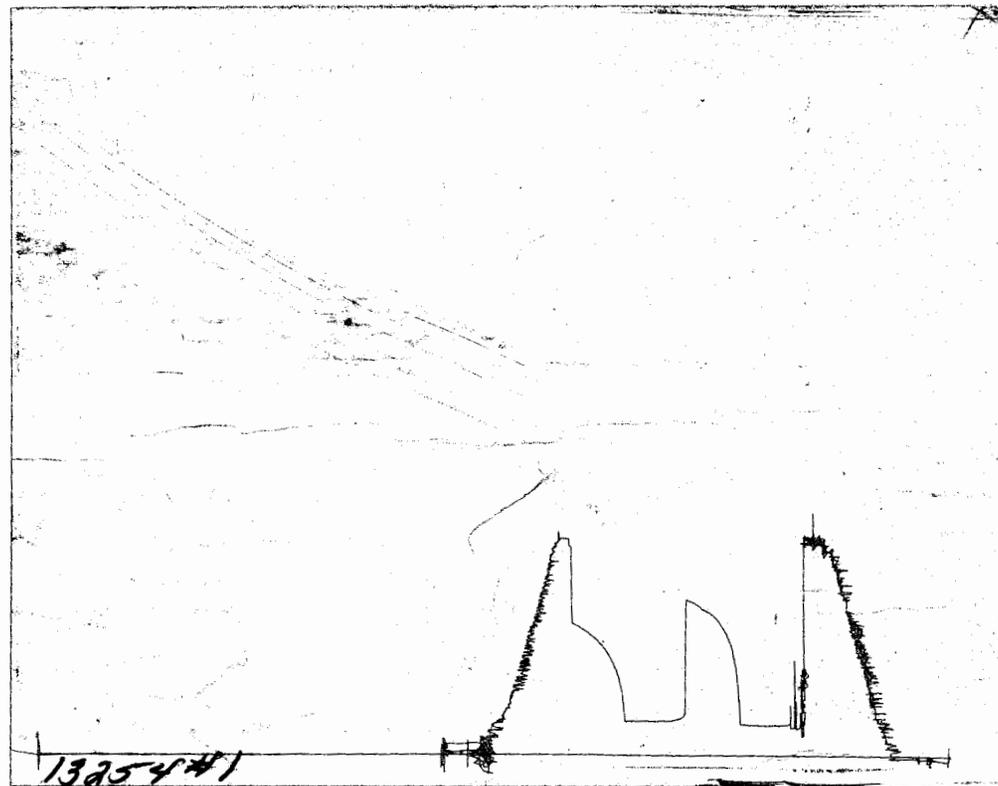
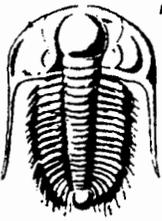


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14701

Test Ticket

Well Name & No. Wedel #1 Test No. 1 Date 4-22-01
 Company Brunquardt Oil & Leasing, Inc Zone Tested Topeka
 Address P.O. Box 871, Russell, Ks. 67665 Elevation 1900 KB 1885 GL
 Co. Rep / Geo. Brad Hutchison Cont. Shields Est. Ft. of Pay Por. %
 Location: Sec. 14 Twp. 10 Rge. 15 Co. Osborne State Ks
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 2774 — 2810 Initial Str Wt./Lbs. 34,000 Unseated Str Wt./Lbs. 38,000
 Anchor Length 36 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 2769 Tool Weight 1000
 Bottom Packer Depth 2774 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 2810 Wt. Pipe Run 316 Drill Collar Run
 Mud Wt. 9.1 LCM Vis. 37 WL 8.8 Drill Pipe Size 4.5 X H Ft. Run 2777
 Blow Description Slid tool 20' to bottom F.F. Strong B.O.B in
6 min.
F.F. Weak - building to 1"

Recovery — Total Feet 392 GIP Ft. in WT 316 Ft. in DP 76
 Rec. 248 Feet Of Hm w/oil spers %gas %oil %water %mud
 Rec. 20 Feet Of Hm w/cuttings t/o %gas %oil %water %mud
 Rec. 124 Feet Of mdy wtc. %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 93 °F Gravity °API D@ °F Corrected Gravity °API
 RW .13 @ 70 °F Chlorides 75,000 ppm Recovery Chlorides 3,000 ppm System

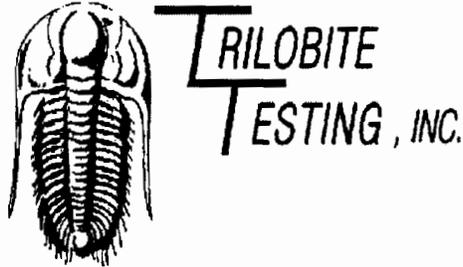
	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1349</u>		<u>2357</u>	<u>21:30</u>
(B) First Initial Flow Pressure		<u>59</u>		(depth) <u>2780</u>	T-Started <u>03:25</u>
(C) First Final Flow Pressure		<u>191</u>		Recorder No. <u>13254</u>	T-Open <u>05:15</u>
(D) Initial Shut-In Pressure		<u>984</u>		(depth) <u>2810</u>	T-Pulled <u>08:15</u>
(E) Second Initial Flow Pressure		<u>192</u>		Recorder No. <u> </u>	T-Out <u>10:30</u>
(F) Second Final Flow Pressure		<u>209</u>		(depth) <u> </u>	T-Off Location <u>10:45</u>
(G) Final Shut-in Pressure		<u>845</u>		Initial Opening <u>45</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud		<u>1346</u>		Initial Shut-in <u>45</u>	Jars <u> </u>
				Final Flow <u>45</u>	Safety Joint <u> </u>
				Final Shut-in <u>45</u>	Straddle <u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Brad Hutchison
 Our Representative Dan Bonade

4030 = 170
 2060 = 170

Extra Packer
 Elec. Rec. X 150
 Mileage 48
 Other Lehrs 240
 TOTAL PRICE 1138



DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing, Inc.**

P.O. Box 871
Russell, KS 67665

ATTN: Gary Brungardt

14-10-15 Osborne KS

Wedel #1

Start Date: 2001.04.23 @ 06:05:00

End Date: 2001.04.23 @ 12:57:00

Job Ticket #: 14702 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



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TESTING, INC.**

DRILL STEM TEST REPORT

Brungardt Oil & Leasing, Inc.

Wedel #1

P.O. Box 871
Russell, KS 67665

14-10-15 Osborne KS

Job Ticket: 14702 DST#: 2

ATTN: Gary Brungardt

Test Start: 2001.04.23 @ 06:05:00

GENERAL INFORMATION:

Formation: **Lower Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:14:20

Time Test Ended: 12:57:00

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **2897.00 ft (KB) To 2990.00 ft (KB) (TVD)**

Reference Elevations: 1900.00 ft (KB)

Total Depth: 2990.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 2357

Inside

Press@RunDepth: 481.82 psig @ 2896.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.04.23

End Date: 2001.04.23

Last Calib.: 2001.04.22

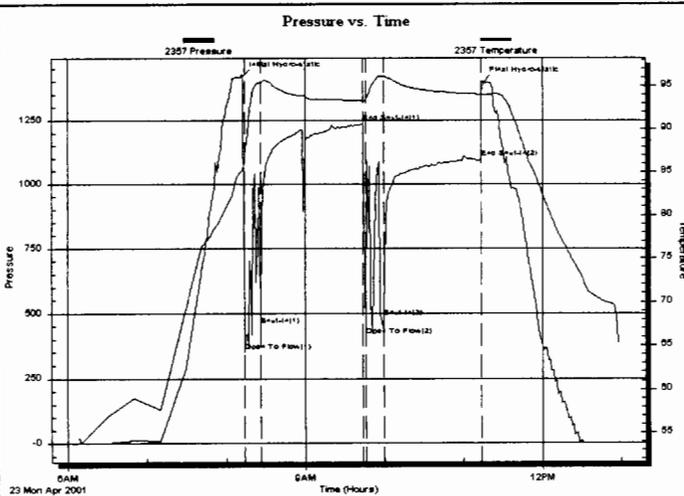
Start Time: 06:07:51

End Time: 12:57:50

Time On Btm: 2001.04.23 @ 08:12:20

Time Off Btm: 2001.04.23 @ 11:15:20

TEST COMMENT: IF-Strong BOB in 20 sec
FF: No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1419.88	85.18	Initial Hydro-static
2	350.78	86.95	Open To Flow (1)
14	449.07	95.41	Shut-In(1)
92	1237.63	93.31	End Shut-In(1)
94	410.94	93.41	Open To Flow (2)
108	481.82	96.03	Shut-In(2)
181	1099.44	94.02	End Shut-In(2)
183	1395.38	94.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
316.00	muddy w ater 30% w ater 70% mud	1.55
584.00	w atery mud 50% w ater 50% mud	8.19

Gas Rates

	Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil & Leasing, Inc.

Wedel #1

P.O. Box 871
Russell, KS 67665

14-10-15 Osborne KS

Job Ticket: 14702

DST#: 2

ATTN: Gary Brungardt

Test Start: 2001.04.23 @ 06:05:00

Tool Information

Drill Pipe:	Length: 2582.00 ft	Diameter: 3.80 inches	Volume: 36.22 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 316.00 ft	Diameter: 2.25 inches	Volume: 1.55 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 37.77 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	27.01 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	2892.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.02 ft			
Tool Length:	114.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			2872.00	
S.I. Tool	5.00			2877.00	
HYD S.I. Tool	5.00			2882.00	
Packer	5.00			2887.00	21.00 Bottom Of Top Packer
Packer	5.00			2892.00	
Stubb	1.00			2893.00	
Perforations	2.00			2895.00	
C.O. Sub	1.00			2896.00	
Recorder	0.01	2357	Inside	2896.01	
Blank Spacing	63.00			2959.01	
C.O. Sub	1.00			2960.01	
Recorder	0.01	13254	Outside	2960.02	
Perforations	20.00			2980.02	
Bullnose	5.00			2985.02	93.02 Bottom Packers & Anchor

Total Tool Length: 114.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing, Inc.

Wedel #1

P.O. Box 871
Russell, KS 67665

14-10-15 Osborne KS

Job Ticket: 14702

DST#: 2

ATTN: Gary Brungardt

Test Start: 2001.04.23 @ 06:05:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	45000 ppm
Viscosity:	37.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.75 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
316.00	muddy w ater 30% w ater 70% mud	1.554
584.00	w atery mud 50% w ater 50% mud	8.192

Total Length: 900.00 ft Total Volume: 9.740 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Rw .19 @ 69

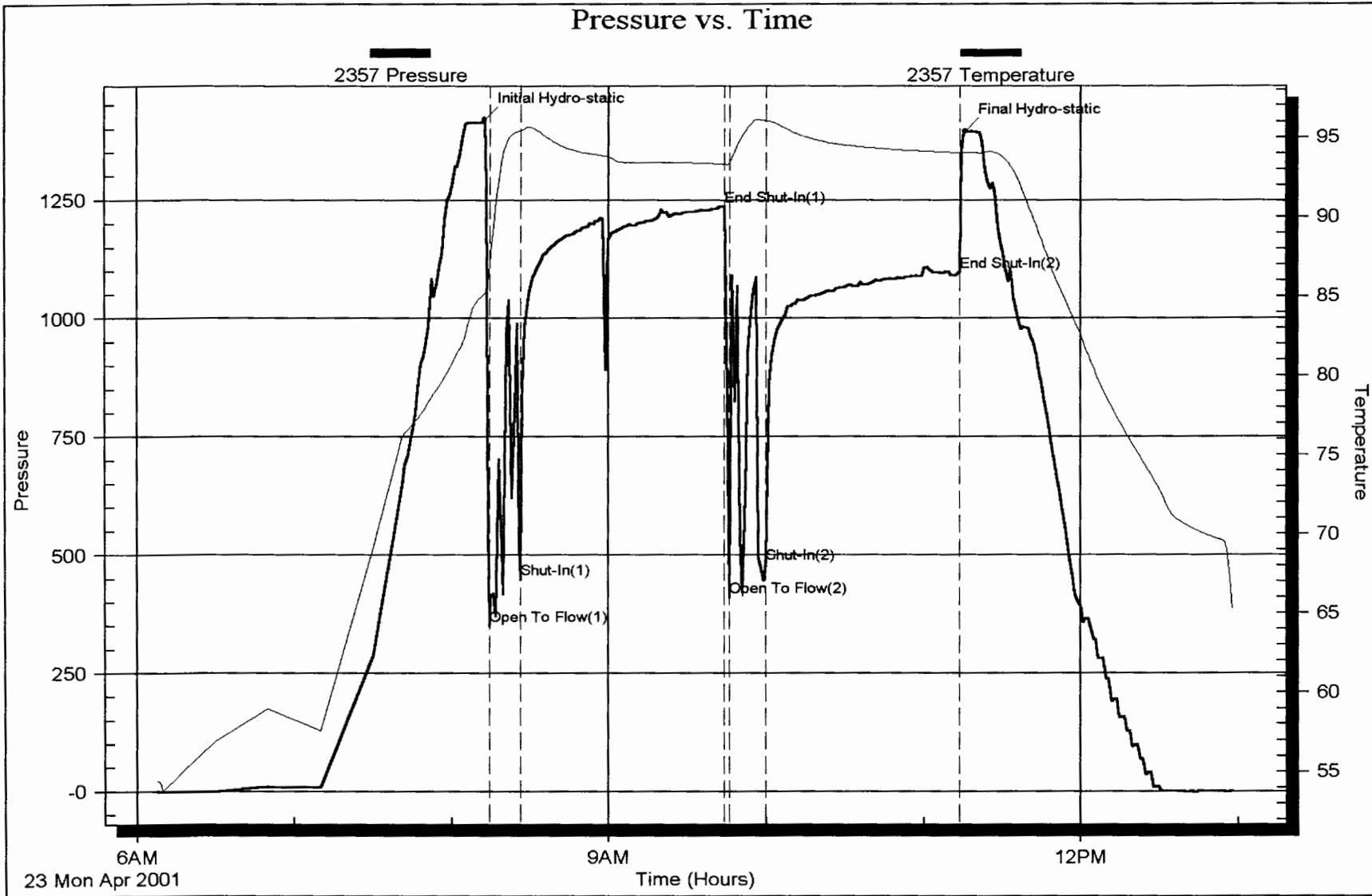
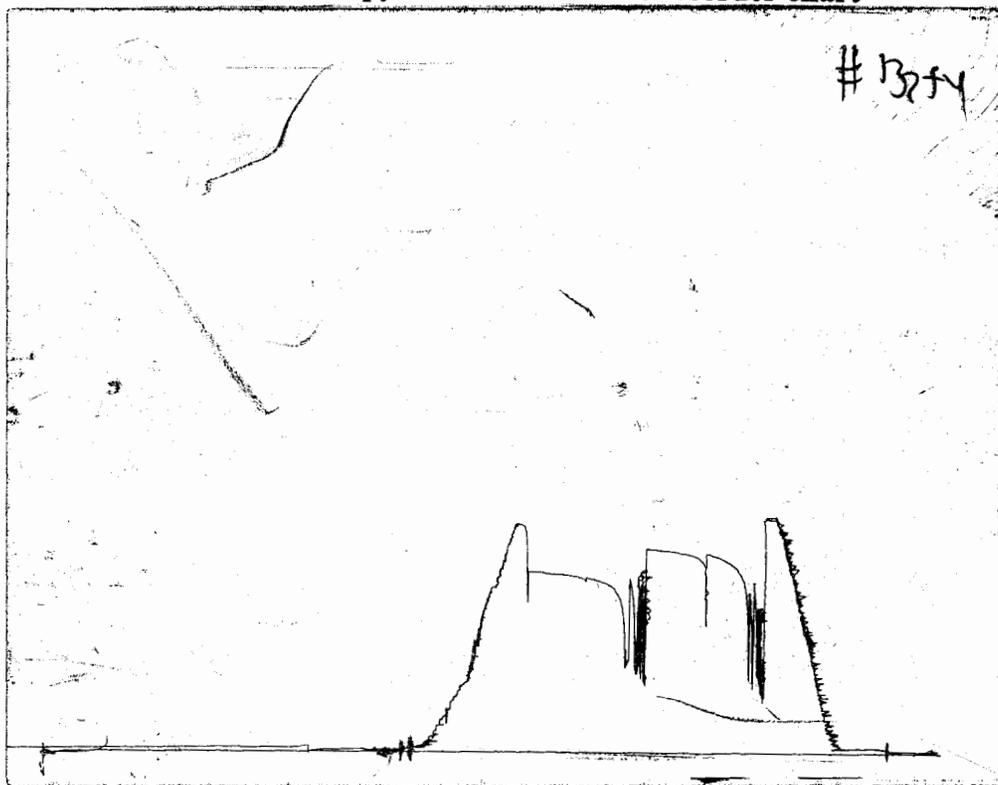
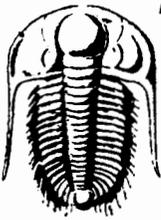


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14702

Test Ticket

Well Name & No. Wedel #1 Test No. 2 Date 4-23-01
 Company Brungardt Oil & Leasing, Inc Zone Tested Lower Topoka
 Address _____ Elevation 1900 KB 1885 GL
 Co. Rep / Geo. Brad Hutchison Cont. Shields Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 14 Twp. 10 Rge. 15 Co. Osborne State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 2897 - 2990 Initial Str Wt./Lbs. 38,000 Unseated Str Wt./Lbs. 42,000
 Anchor Length 93 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 45,000
 Top Packer Depth 2892 Tool Weight 1000
 Bottom Packer Depth 2897 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Total Depth 2990 Wt. Pipe Run 316 Drill Collar Run _____
 Mud Wt. 9 LCM 4# Vis. 46 WL 8 Drill Pipe Size 4.5 XH Ft. Run 2961
 Blow Description I.F. Strong - B.O.B in 20sec

F.F. No blow

Recovery — Total Feet	GIP	Ft. in <u>WT</u> <u>316</u>	Ft. in DP <u>584</u>
Rec. <u>584</u> Feet Of <u>WM</u>		%gas _____ %oil <u>30</u> %water <u>70</u> %mud _____	
Rec. <u>316</u> Feet Of <u>MW</u>		%gas _____ %oil <u>50</u> %water <u>50</u> %mud _____	
Rec. _____ Feet Of _____		%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____		%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____		%gas _____ %oil _____ %water _____ %mud _____	

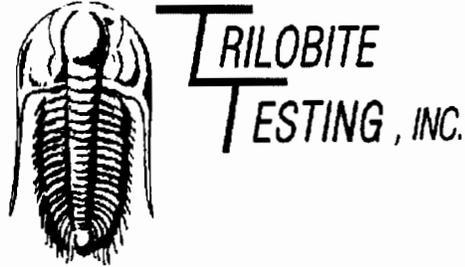
BHT _____ °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW 19 @ 62 °F Chlorides 45,000 ppm Recovery Chlorides 2,000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1420</u>	<u>2357</u>	<u>05:15</u>
(B) First Initial Flow Pressure		<u>351</u>	(depth) <u>2901</u>	T-Started <u>06:05</u>
(C) First Final Flow Pressure		<u>449</u>	PSI Recorder No. <u>13254</u>	T-Open <u>08:11</u>
(D) Initial Shut-In Pressure		<u>1238</u>	(depth) <u>2965</u>	T-Pulled <u>11:26</u>
(E) Second Initial Flow Pressure		<u>411</u>	PSI Recorder No. _____	T-Out <u>12:57</u>
(F) Second Final Flow Pressure		<u>482</u>	(depth) _____	T-Off Location <u>1325</u>
(G) Final Shut-in Pressure		<u>1075</u>	PSI Initial Opening <u>45</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud		<u>1395</u>	PSI Initial Shut-in <u>45</u>	Jars _____
			Final Flow <u>45</u>	Safety Joint _____
			Final Shut-in <u>45</u>	Straddle _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By George P. Brungardt
 Our Representative Don Bander / Paul Simpson

Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Elec. Rec. X 150
 Mileage 48
 Other _____
 TOTAL PRICE \$ 898



DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing, Inc.**

P.O. Box 871
Russell, KS 67665

ATTN: Gary Brungardt

14-10-15 Osborne KS

Wedel #1

Start Date: 2001.04.23 @ 21:28:00

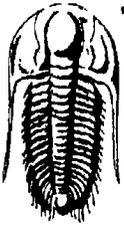
End Date: 2001.04.23 @ 01:45:00

Job Ticket #: 14703 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Brungardt Oil & Leasing, Inc.

Wedel #1

P.O. Box 871
Russell, KS 67665

14-10-15 Osborne KS

Job Ticket: 14703 **DST#: 3**

ATTN: Gary Brungardt

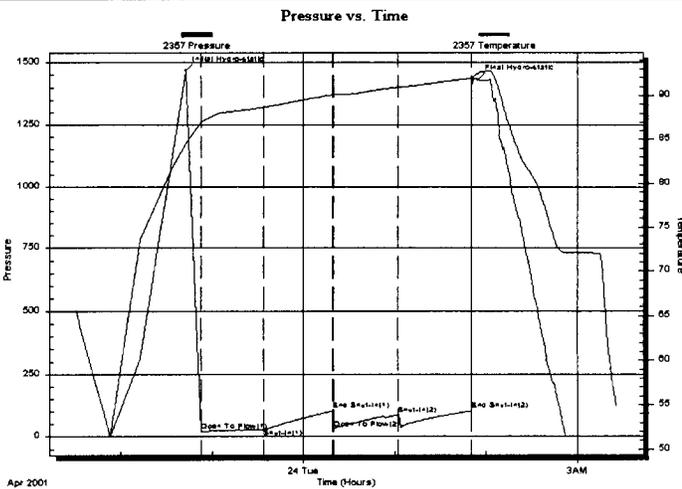
Test Start: 2001.04.23 @ 21:28:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 22:52:51
 Time Test Ended: 01:45:00
 Interval: **3020.00 ft (KB) To 3050.00 ft (KB) (TVD)**
 Total Depth: **3050.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Ray Schwager**
 Unit No: **16**
 Reference Elevations: **1900.00 ft (KB)**
1895.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 2357 Inside
 Press@RunDepth: **86.40 psig @ 3016.01 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2001.04.23** End Date: **2001.04.24** Last Calib.: **2001.04.24**
 Start Time: **21:30:52** End Time: **03:25:51** Time On Btm: **2001.04.23 @ 22:42:51**
 Time Off Btm: **2001.04.24 @ 01:54:51**

TEST COMMENT: IFF-w k to Gd bl 1/2"to 8"bl
 FFP-w k to fr bl 1"to 4"bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1467.52	84.56	Initial Hydro-static
10	21.33	87.01	Open To Flow (1)
51	28.66	88.65	Shut-In(1)
97	102.90	90.06	End Shut-In(1)
97	29.98	90.07	Open To Flow (2)
139	86.40	90.91	Shut-In(2)
188	102.86	91.94	End Shut-In(2)
192	1431.23	92.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
265.00	GIP	1.88
45.00	O&GCM 10%gas 20%oil 70%mud	0.32

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil & Leasing, Inc.

Wedel #1

P.O. Box 871
Russell, KS 67665

14-10-15 Osborne KS

Job Ticket: 14703

DST#: 3

ATTN: Gary Brungardt

Test Start: 2001.04.23 @ 21:28:00

Tool Information

Drill Pipe:	Length: 2704.00 ft	Diameter: 3.80 inches	Volume: 37.93 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 316.00 ft	Diameter: 2.70 inches	Volume: 2.24 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 40.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.01 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3015.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.02 ft			
Tool Length:	51.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			2995.00	
S.I. Tool	5.00			3000.00	
HYD S.I. Tool	5.00			3005.00	
Packer	5.00			3010.00	21.00 Bottom Of Top Packer
Packer	5.00			3015.00	
Stubb	1.00			3016.00	
Recorder	0.01	2357	Inside	3016.01	
Perforations	24.00			3040.01	
Recorder	0.01	13254	Outside	3040.02	
Bullnose	5.00			3045.02	30.02 Bottom Packers & Anchor
Total Tool Length:	51.02				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing, Inc.

Wedel #1

P.O. Box 871
Russell, KS 67665

14-10-15 Osborne KS

Job Ticket: 14703 **DST#: 3**

ATTN: Gary Brungardt

Test Start: 2001.04.23 @ 21:28:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.54 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
265.00	GIP	1.877
45.00	O&GCM 10%gas 20%oil 70%mud	0.319

Total Length: 310.00 ft Total Volume: 2.200 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: times 45-45-45-45

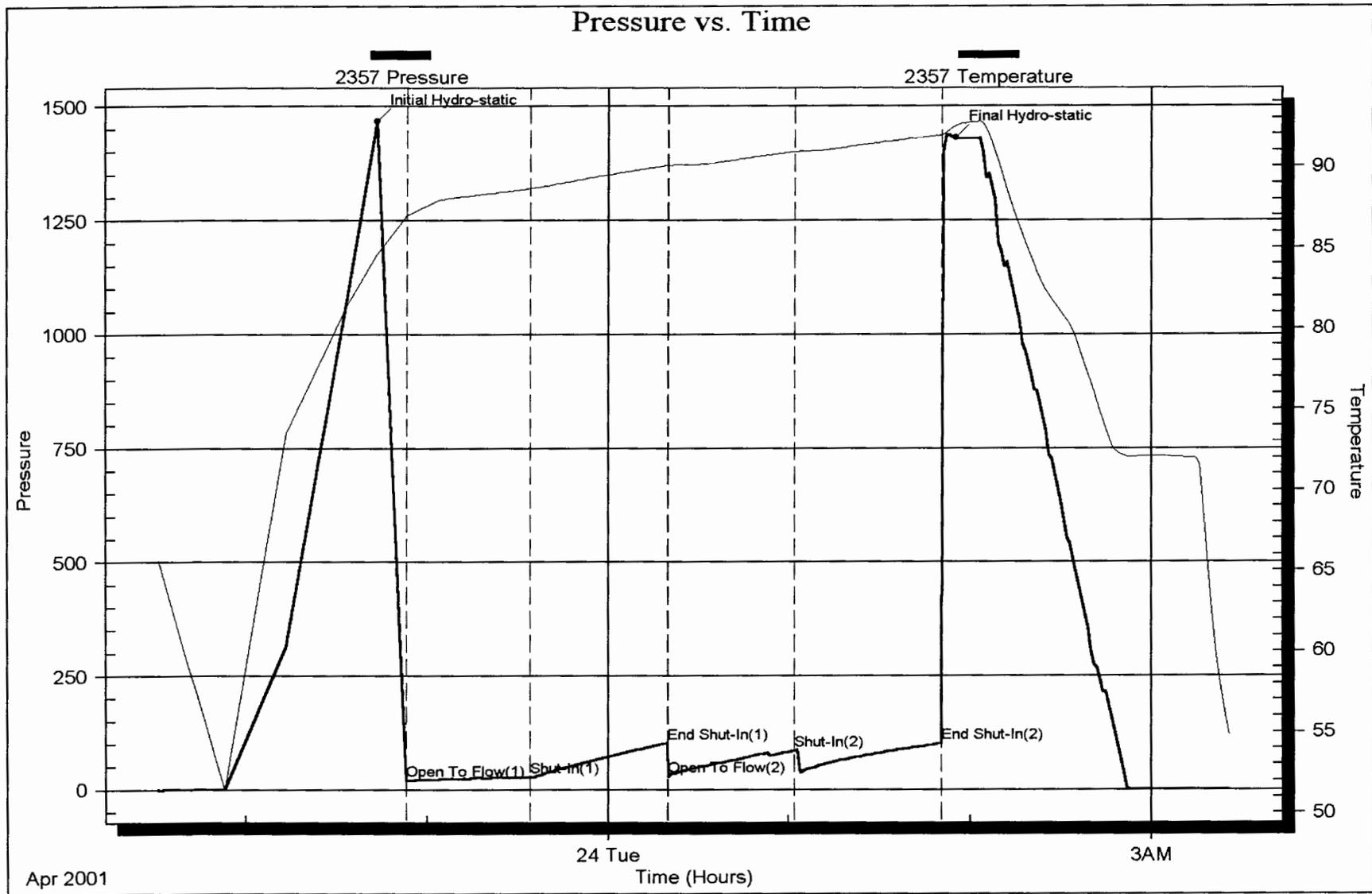
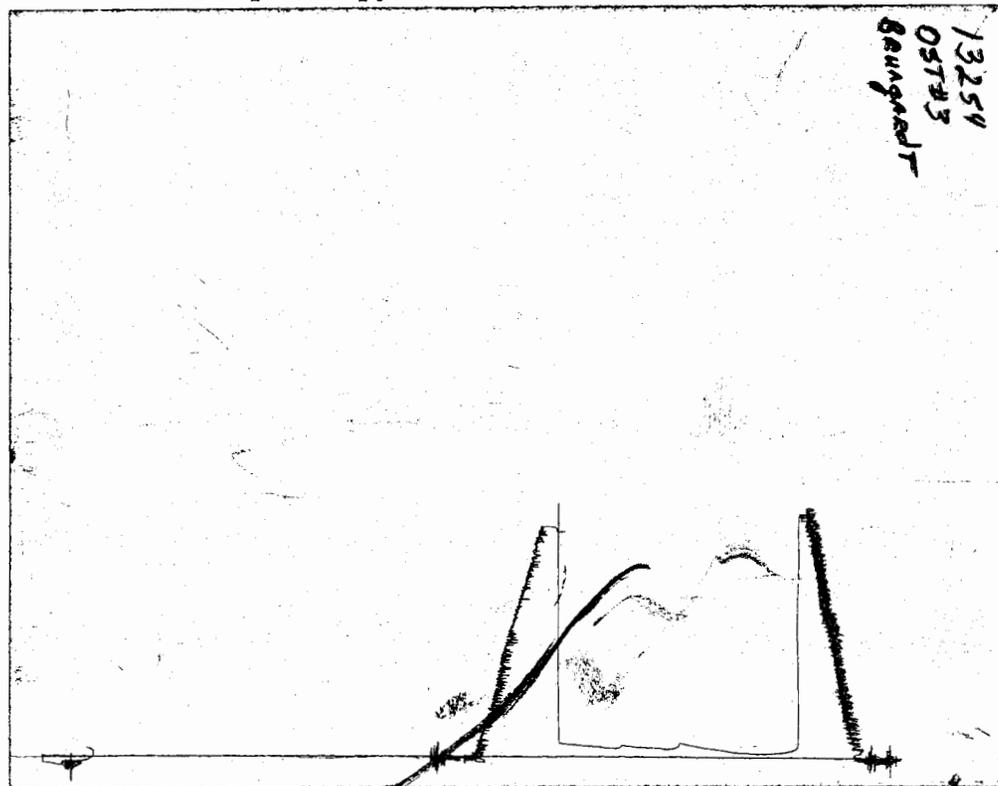
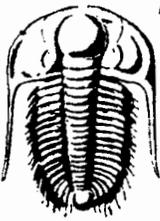


CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14703

Test Ticket

Well Name & No. Wedel #1 Test No. 3 Date 4-23-2001
 Company BRUNGARDT OIL + LEASING INC Zone Tested TORONTO
 Address P.O. Box 871 Russell, Mo 67665 Elevation 1900 KB 1895 GL
 Co. Rep / Geo. BRAD HUTCHINSON Cont. SHIELDS RIG 1 Est. Ft. of Pay - Por. - %
 Location: Sec. 14 Twp. 10^s Rge. 15^w Co. OSBORNE State KO
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3020 - 3050 Initial Str Wt./Lbs. 37000 Unseated Str Wt./Lbs. 37000
 Anchor Length 30 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 45000
 Top Packer Depth 3015 Tool Weight 2200
 Bottom Packer Depth 3020 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3050 Wt. Pipe Run 316 Drill Collar Run -
 Mud Wt. 9 LCM 4# Vis. 50 WL 9.6 Drill Pipe Size 4 1/2 XH Ft. Run 2704
 Blow Description IFP - WEAK TO A GOOD BLOW 1/2" TO 8" BLOW
IFP - WEAK TO A FAIR BLOW 1" TO 4" BLOW
HAD A WEAK BLOW BACK ON SHUT-IN

Recovery — Total Feet 45 GIP 265 Ft. in DP 45 Ft. in DP -
 Rec. 45 Feet Of 0.4 GCM 10% gas 20% oil %water 70% mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 BHT 91 °F Gravity - °API D@ - °F Corrected Gravity - °API
 RW - @ - °F Chlorides - ppm Recovery Chlorides 2000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		1467	2357	2100
(B) First Initial Flow Pressure		21	(depth) 3021	T-Started 2128
(C) First Final Flow Pressure		28	PSI Recorder No. 13254	T-Open 2245
(D) Initial Shut-In Pressure		102	PSI (depth) 3045	T-Pulled 0145
(E) Second Initial Flow Pressure		29	PSI Recorder No. -	T-Out 0325
(F) Second Final Flow Pressure		86	PSI (depth) -	T-Off Location 0355
(G) Final Shut-in Pressure		102	PSI Initial Opening 45	Test ✓ 700
(Q) Final Hydrostatic Mud		1431	PSI Initial Shut-in 45	Jars _____
			Final Flow 45	Safety Joint _____
			Final Shut-in 45	Straddle _____
				Circ. Sub _____
				Sampler _____
				Extra Packer _____
				Elec. Rec. ✓ 150
				Mileage ✓ 48
				Other _____
				TOTAL PRICE \$ 898

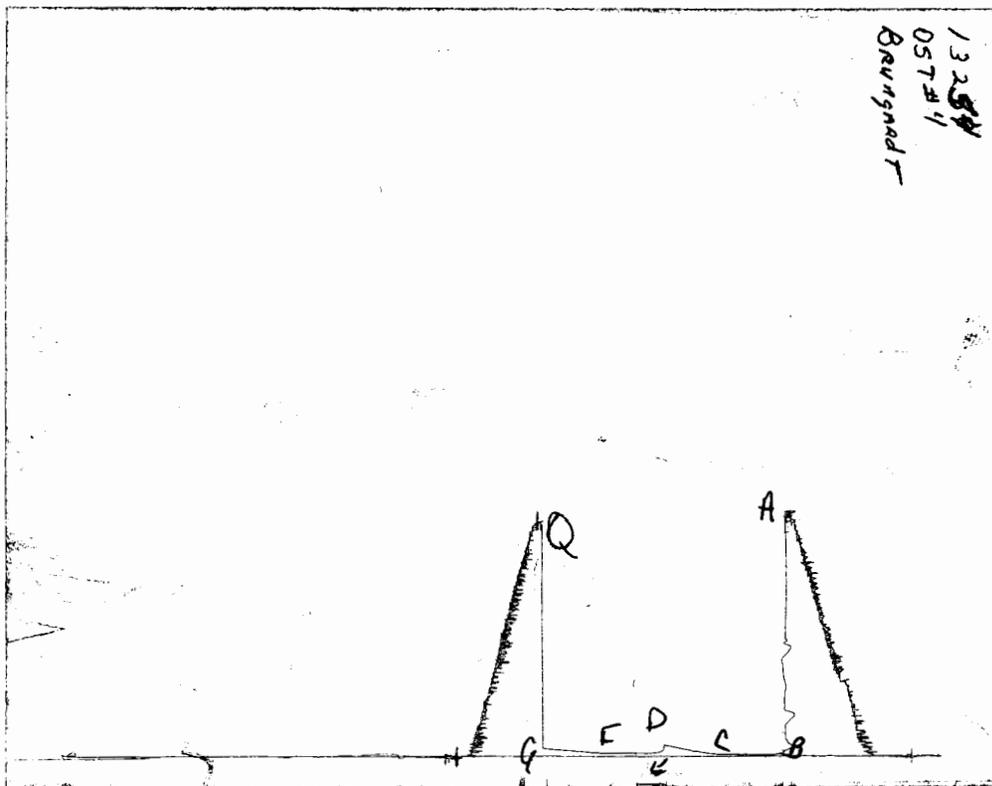
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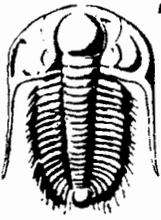
Approved By [Signature]

Our Representative RAY SCHWAGER THANK YOU

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14704

Test Ticket

Well Name & No. Wedel #1 Test No. 4 Date 4-24-2001
 Company BRUNGARDT OIL-LEASING INC Zone Tested LKC "A"
 Address P.O. Box 871 Russell, Ks 67665 Elevation 1900 KB 1895 GL
 Co. Rep / Geo. BRAD HUTCHINSON Cont. Shields rig 1 Est. Ft. of Pay — Por. — %
 Location: Sec. 14 Twp. 10^s Rge. 15^w Co. Edwards State Ks
 No. of Copies Reg Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 3047-3075 Initial Str Wt./Lbs. 38000 Unseated Str Wt./Lbs. 38000
 Anchor Length 28 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 42000
 Top Packer Depth 3042 Tool Weight 2800
 Bottom Packer Depth 3047 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3075 Wt. Pipe Run 316 Drill Collar Run —
 Mud Wt. 9 LCM 6th Vis. 46 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 2738
 Blow Description IFP - WEAK Blow throughout 1/4" to 1" Blow
FFP - WEAK Blow throughout 2" decreased to 1" Blow

Recovery — Total Feet	GIP	Ft. in ^{WP} DP	Ft. in DP
<u>20</u>	<u>105</u>	<u>20</u>	<u>—</u>
Rec. <u>20</u> Feet Of <u>50 + GCM</u>		<u>4</u> %gas <u>1</u> %oil	%water <u>95</u> %mud
Rec. _____ Feet Of _____		%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____		%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____		%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____		%gas _____ %oil _____	%water _____ %mud _____

BHT 100 °F Gravity — °API D@ — °F Corrected Gravity — °API
 RW — @ — °F Chlorides — ppm Recovery Chlorides 6000 ppm System

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1448</u>		PSI Recorder No. <u>13254</u>	T-On Location <u>1000</u>
(B) First Initial Flow Pressure	<u>11</u>		PSI (depth) <u>3049</u>	T-Started <u>1030</u>
(C) First Final Flow Pressure	<u>11</u>		PSI Recorder No. <u>13247</u>	T-Open <u>1215</u>
(D) Initial Shut-In Pressure	<u>82</u>		PSI (depth) <u>3067</u>	T-Pulled <u>1515</u>
(E) Second Initial Flow Pressure	<u>11</u>		PSI Recorder No. <u>—</u>	T-Out <u>1630</u>
(F) Second Final Flow Pressure	<u>11</u>		PSI (depth) <u>—</u>	T-Off Location <u>1640</u>
(G) Final Shut-in Pressure	<u>59</u>		PSI Initial Opening <u>45</u>	Test <input checked="" type="checkbox"/> <u>700</u>
(Q) Final Hydrostatic Mud	<u>1436</u>		PSI Initial Shut-in <u>45</u>	Jars _____
			Final Flow <u>45</u>	Safety Joint _____
			Final Shut-in <u>45</u>	Straddle _____
				Circ. Sub _____
				Sampler _____
				Extra Packer _____
				Elec. Rec. _____
				Mileage <u>48</u>
				Other _____
				TOTAL PRICE \$ <u>748</u>

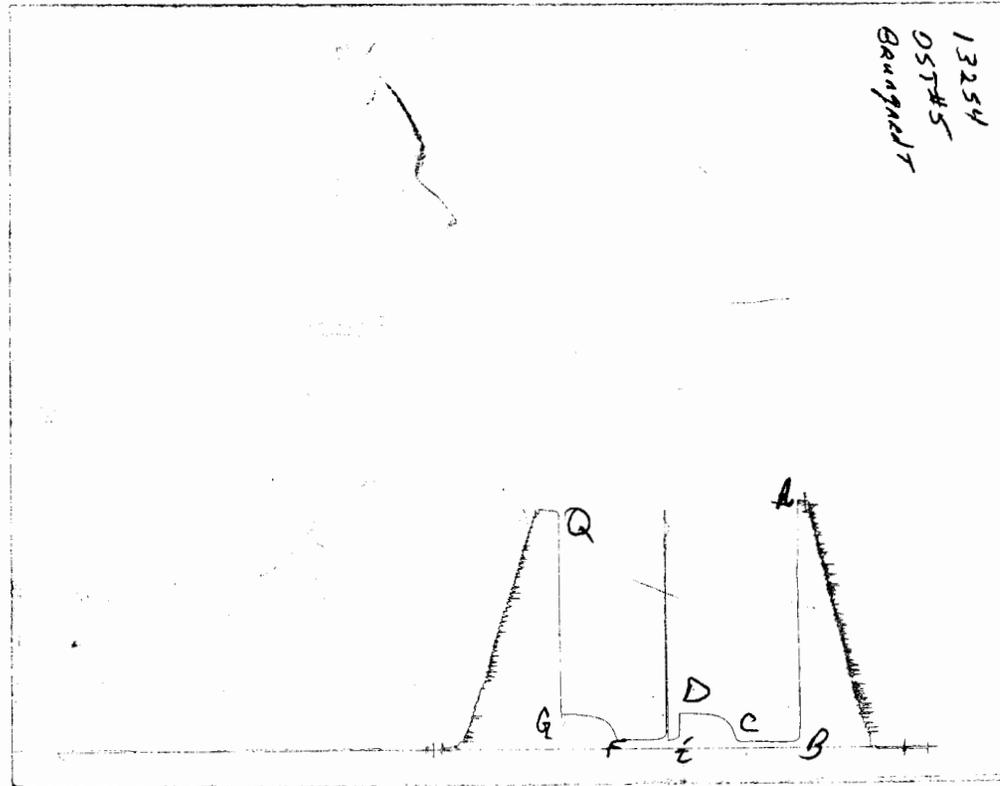
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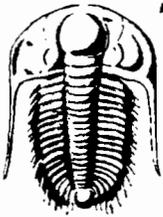
Approved By Brad Hutchinson

Our Representative RAY SCHWAGER THANK YOU

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14705

Test Ticket

Well Name & No. Uedel #1 Test No. 5 Date 4-25-01
 Company BRUNGARDT OIL Leasing Inc Zone Tested LKC O,EF
 Address PO Box 871 Russell, Ks 67665 Elevation 1900 KB 1895 GL
 Co. Rep / Geo. BRAD HUTCHINSON Cont. Shields rig 1 Est. Ft. of Pay - Por. - %
 Location: Sec. 14 Twp. 10^s Rge. 15^w Co. DEWANE State KO
 No. of Copies Reg Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 3083-3155 Initial Str Wt./Lbs. 38000 Unseated Str Wt./Lbs. 38000
 Anchor Length 72 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 45000
 Top Packer Depth 3078 Tool Weight 2200
 Bottom Packer Depth 3083 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3155 Wt. Pipe Run 316 Drill Collar Run -
 Mud Wt. 9.1 LCM 4# Vis. 48 WL 9.2 Drill Pipe Size 4 1/2 X 11 Ft. Run 2767
 Blow Description IFP - WEAK BLOW THROUGHOUT 1/2" BLOW
FFP - NO BLOW FLUSHED TOOL

Recovery — Total Feet 65 GIP - Ft. in ^{WP} 65 Ft. in DP -
 Rec. 65 Feet Of Mud %gas %oil %water %mud
 Rec. Feet Of w/show of oil %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 102' °F Gravity - °API D@ - °F Corrected Gravity - °API
 RW - @ - °F Chlorides - ppm Recovery Chlorides 6000 ppm System

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1495</u>		PSI Recorder No.	<u>13254</u> T-On Location <u>0500</u>
(B) First Initial Flow Pressure	<u>35</u>		PSI (depth)	<u>3088</u> T-Started <u>0515</u>
(C) First Final Flow Pressure	<u>35</u>		PSI Recorder No.	<u>13247</u> T-Open <u>0645</u>
(D) Initial Shut-In Pressure	<u>213</u>		PSI (depth)	<u>3147</u> T-Pulled <u>0945</u>
(E) Second Initial Flow Pressure	<u>47</u>		PSI Recorder No.	<u>-</u> T-Out <u>1130</u>
(F) Second Final Flow Pressure	<u>47</u>		PSI (depth)	<u>-</u> T-Off Location <u>1145</u>
(G) Final Shut-in Pressure	<u>213</u>		PSI Initial Opening	<u>45</u> Test <input checked="" type="checkbox"/> <u>700</u>
(Q) Final Hydrostatic Mud	<u>1460</u>		PSI Initial Shut-in	<u>45</u> Jars
			Final Flow	<u>45</u> Safety Joint
			Final Shut-in	<u>45</u> Straddle

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Approved By Brad Hutchinson

Our Representative RAY SCHWAGER THANK YOU

Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Elec. Rec. _____
 Mileage 40
 Other _____
 TOTAL PRICE \$ 700

TRILOBITE TESTING L.L.C.

OPERATOR : Brungardt Oil & Leasing DATE 4-25-01
 WELL NAME: Wedel #1 KB 1900.00 ft TICKET NO: 14706 DST #6
 LOCATION : 14-10s-15w Osborne co KS GR 1895.00 ft FORMATION: LKC G
 INTERVAL : 3146.00 To 3164.00 ft TD 3164.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	13254	13254				PF Fr. 1810 to 1855 hr
SI 45 Range(Psi)	4550.0	4550.0	0.0	0.0	0.0	IS Fr. 1855 to 1940 hr
SF 45 Clock(hrs)	12	12				SF Fr. 1940 to 2025 hr
FS 45 Depth(ft)	3148.0	3148.0	0.0	0.0	0.0	FS Fr. 2025 to 2110 hr

	Field	1	2	3	4	
A. Init Hydro	1507.0	1556.0	0.0	0.0	0.0	T STARTED 1700 hr
B. First Flow	11.0	15.0	0.0	0.0	0.0	T ON BOTM 1805 hr
B1. Final Flow	23.0	26.0	0.0	0.0	0.0	T OPEN 1810 hr
C. In Shut-in	225.0	236.0	0.0	0.0	0.0	T PULLED 2110 hr
D. Init Flow	35.0	59.0	0.0	0.0	0.0	T OUT 2230 hr
E. Final Flow	47.0	59.0	0.0	0.0	0.0	
F. Fl Shut-in	213.0	236.0	0.0	0.0	0.0	
G. Final Hydro	1507.0	1534.0	0.0	0.0	0.0	TOOL DATA-----
Inside/Outside	I	I				Tool Wt. 2200.00 lbs
						Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 42000.00 lbs
						Initial Str Wt 38000.00 lbs
						Unseated Str Wt 38000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 2830.00 ft
						H.W. I.D 2.70 in
						H.W. Length 316.00 ft

RECOVERY

Tot Fluid	90.00 ft of	0.00 ft in DC and	90.00 ft in DP
90.00	ft of Watery mud (in weight pipe)		
0.00	ft of 30% water 70% mud		
0.00	ft of		
SALINITY	18000.00 P.P.M.	A.P.I. Gravity	0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	40.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop	

BLOW DESCRIPTION

Initial Flow:
 Weak blow throughout 1/4" blow
 Final Flow:
 No blow, Flushed tool, got a weak surface blow after flush

Amt. of fill	0.00 ft
Btm. H. Temp.	101.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00

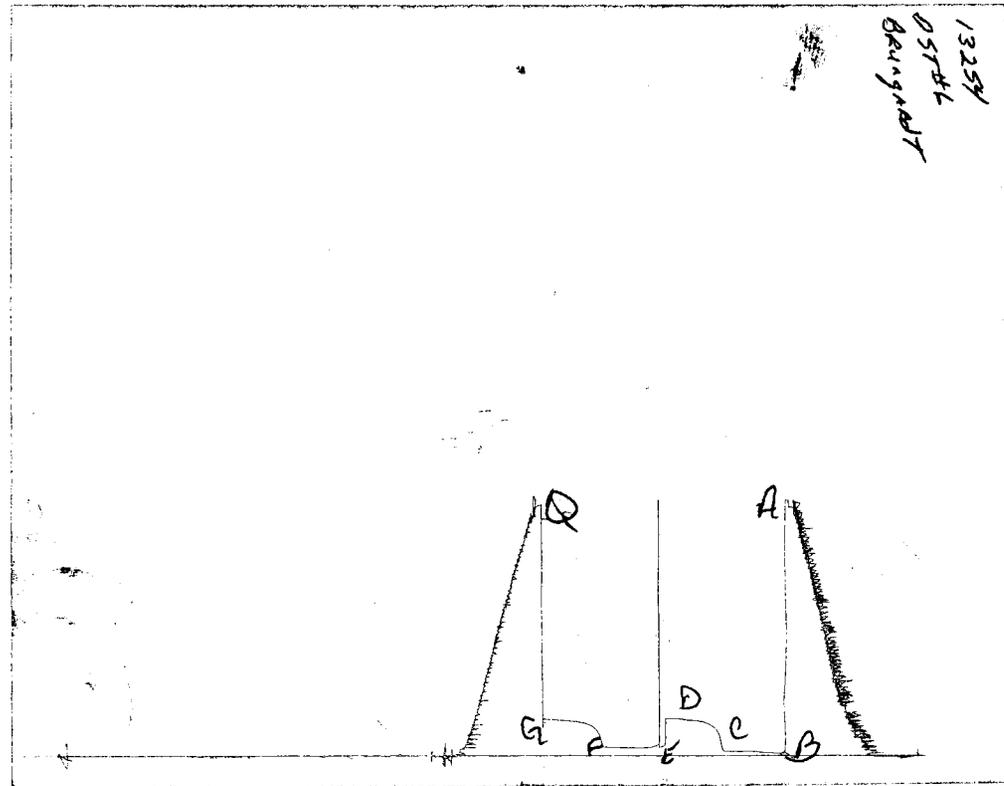
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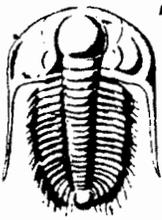
Reversed Out
 Tool Chased
 Tester Ray Schwager
 Co. Rep. Brad Hutchinson
 Contr. Shields
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14706

Test Ticket

Well Name & No. Wedel #1 Test No. 6 Date 4-25-01
 Company Brunard Oil Leasing Inc Zone Tested LKC G
 Address P.O. Box 871 Russell, Ks 67665 Elevation 1900 KB 1895 GL
 Co. Rep / Geo. Brad Hutchinson Cont. Shield 1191 Est. Ft. of Pay - Por. - %
 Location: Sec. 14 Twp. 10^s Rge. 15^w Co. Osborne State Ks
 No. of Copies Req Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 3146 - 3164 Initial Str Wt./Lbs. 38000 Unseated Str Wt./Lbs. 38000
 Anchor Length 18 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 42000
 Top Packer Depth 3141 Tool Weight 2200
 Bottom Packer Depth 3146 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3164 Wt. Pipe Run 316 Drill Collar Run -
 Mud Wt. 9.2 LCM 4# Vis. 40 WL 8.4 Drill Pipe Size 4 1/2 X H Ft. Run 2830
 Blow Description IFP - Weak Blow throughout 1/4" Blow
FFP - No Blow, flushed tool, got a weak surface blow after flush

Recovery — Total Feet	GIP	Ft. in BC ^{WP}	Ft. in DP	%gas	%oil	%water	%mud
<u>90</u>	<u>-</u>	<u>90</u>	<u>-</u>			<u>30</u>	<u>70</u>
Rec. <u>90</u>	Feet Of <u>Watery Mud</u>			%gas	%oil	%water	%mud
Rec. _____	Feet Of _____			%gas	%oil	%water	%mud
Rec. _____	Feet Of _____			%gas	%oil	%water	%mud
Rec. _____	Feet Of _____			%gas	%oil	%water	%mud
Rec. _____	Feet Of _____			%gas	%oil	%water	%mud

BHT 101 °F Gravity - °API D@ - °F Corrected Gravity - °API
 RW .18 @ 64 °F Chlorides 18,000 ppm Recovery Chlorides 7000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1507</u>		<u>13254</u>	<u>4530</u>
(B) First Initial Flow Pressure	<u>11</u>		(depth) <u>3148</u>	T-Started <u>1700</u>
(C) First Final Flow Pressure	<u>23</u>		PSI Recorder No. <u>13247</u>	T-Open <u>1810</u>
(D) Initial Shut-In Pressure	<u>225</u>		(depth) <u>3160</u>	T-Pulled <u>2110</u>
(E) Second Initial Flow Pressure	<u>35</u>		PSI Recorder No. <u>-</u>	T-Out <u>2230</u>
(F) Second Final Flow Pressure	<u>47</u>		(depth) <u>-</u>	T-Off Location <u>2243</u>
(G) Final Shut-in Pressure	<u>213</u>		PSI Initial Opening <u>45</u>	Test <input checked="" type="checkbox"/> <u>700</u>
(Q) Final Hydrostatic Mud	<u>1507</u>		PSI Initial Shut-in <u>45</u>	Jars _____
			Final Flow <u>45</u>	Safety Joint _____
			Final Shut-in <u>45</u>	Straddle _____

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Approved By [Signature]

Our Representative RAY SCHWAGER THANK YOU

Copyright

Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Elec. Rec. _____
 Mileage nic _____
 Other _____
 TOTAL PRICE 700

TRILOBITE TESTING L.L.C.

OPERATOR : Brungardt Oil & Leasing DATE 4-26-01
 WELL NAME: Wedel #1 KB 1900.00 ft TICKET NO: 14707 DST #7
 LOCATION : 14-10s-15w Osborne co KS GR 1895.00 ft FORMATION: Conglomerate Sd.
 INTERVAL : 3409.00 To 3440.00 ft TD 3440.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	13254	13254				PF Fr. 0450 to 0535 hr
SI 45 Range(Psi)	4550.0	4550.0	0.0	0.0	0.0	IS Fr. 0535 to 0620 hr
SF 45 Clock(hrs)	12	12				SF Fr. 0620 to 0705 hr
FS 45 Depth(ft)	3411.0	3411.0	0.0	0.0	0.0	FS Fr. 0705 to 0750 hr

	Field	1	2	3	4	
A. Init Hydro	1682.0	1737.0	0.0	0.0	0.0	T STARTED 0320 hr
B. First Flow	59.0	55.0	0.0	0.0	0.0	T ON BOTM 0445 hr
B1. Final Flow	142.0	142.0	0.0	0.0	0.0	T OPEN 0450 hr
C. In Shut-in	450.0	457.0	0.0	0.0	0.0	T PULLED 0750 hr
D. Init Flow	189.0	179.0	0.0	0.0	0.0	T OUT 0930 hr
E. Final Flow	189.0	190.0	0.0	0.0	0.0	
F. Fl Shut-in	450.0	444.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1670.0	1661.0	0.0	0.0	0.0	Tool Wt. 2200.00 lbs
Inside/Outside	I	I				Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 45000.00 lbs
						Initial Str Wt 39000.00 lbs
						Unseated Str Wt 39000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3085.00 ft
						H.W. I.D 2.70 in
						H.W. Length 316.00 ft

RECOVERY

Tot Fluid 400.00 ft of	316.00 ft in DC and	84.00 ft in DP
85.00 ft of	Slightly oil cut watery mud	
0.00 ft of	3% oil 30% water 67% mud	
126.00 ft of	Slightly oil cut muddy water	
0.00 ft of	1% oil 50% water 49% mud	
189.00 ft of	Slightly oil cut muddy water	
0.00 ft of	1% oil 70% water 29% mud	
0.00 ft of		
0.00 ft of		
SALINITY 36000.00 P.P.M.	A.P.I. Gravity	0.00

BLOW DESCRIPTION

Initial Flow:
 Weak building to a fair blow 1/4" to 4 1/2" blow

Final Flow:
 Weak blow throughout 1/4" to 1 1/2" blow.

SAMPLES:
 SENT TO:

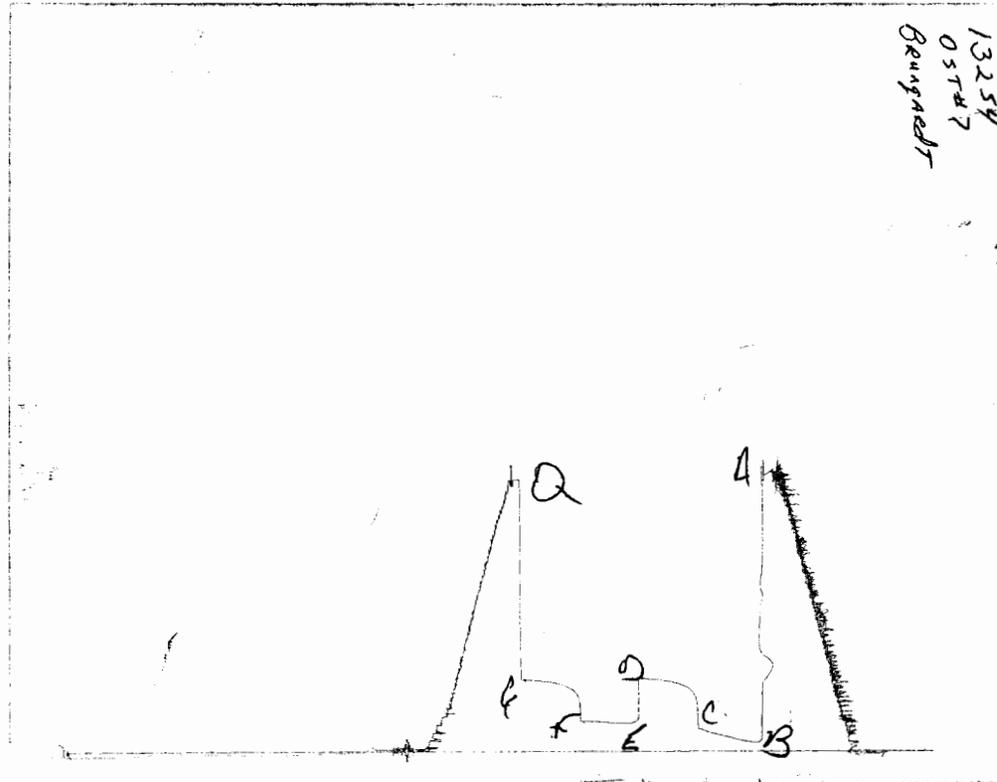
MUD DATA-----

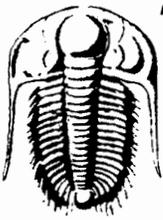
Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	50.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	106.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Ray Schwager
Co. Rep.	Brad Hutchinson
Contr.	Shields
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14707

Test Ticket

Well Name & No. Wedel #1 Test No. 7 Date 4-26-2001
 Company BRUNGARDT OIL & LEASING INC Zone Tested Congl Sd.
 Address P.O. Box 871 Russell, Ks 67665 Elevation 1900 KB 1895 GL
 Co. Rep / Geo. BRAD HUTCHINSON Cont. Shields - 191 Est. Ft. of Pay - Por. - %
 Location: Sec. 14 Twp. 10S Rge. 15W Co. OSBORNE State Ks
 No. of Copies Req Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 3409-3440 Initial Str Wt./Lbs. 39000 Unseated Str Wt./Lbs. 39000
 Anchor Length 31 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 45000
 Top Packer Depth 3404 Tool Weight 2200
 Bottom Packer Depth 3409 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3440 Wt. Pipe Run 318 Drill Collar Run -
 Mud Wt. 9.2 LCM 4# Vis. 50 WL 9.6 Drill Pipe Size 4 1/2 x 4 Ft. Run 3085
 Blow Description T-F-P - WEAK building TO A FAIR Blow 1/4" To 4 1/2" Blow
F-I-P - WEAK Blow throughout 1/4" To 1 1/2" Blow

Recovery — Total Feet 400 GIP - Ft. in ^{WP} 316 Ft. in DP 84
 Rec. 85 Feet Of SOC WM %gas 3 %oil 30 %water 67 %mud
 Rec. 126 Feet Of SOC MW %gas 1 %oil 50 %water 49 %mud
 Rec. 189 Feet Of SOC MW %gas 1 %oil 70 %water 29 %mud
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 106 °F Gravity - °API D@ - °F Corrected Gravity - °API
 RW .20 @ 70 °F Chlorides 36000 ppm Recovery Chlorides 2000 ppm System

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1682</u>		PSI Recorder No. <u>13254</u>	T-On Location <u>0130</u>
(B) First Initial Flow Pressure	<u>59</u>		PSI (depth) <u>3411</u>	T-Started <u>0320</u>
(C) First Final Flow Pressure	<u>142</u>		PSI Recorder No. <u>13248</u>	T-Open <u>0450</u> 8:00
(D) Initial Shut-In Pressure	<u>450</u>		PSI (depth) <u>3432</u>	T-Pulled <u>0750</u>
(E) Second Initial Flow Pressure	<u>189</u>		PSI Recorder No. <u>-</u>	T-Out <u>0930</u>
(F) Second Final Flow Pressure	<u>189</u>		PSI (depth) <u>-</u>	T-Off Location <u>1030</u>
(G) Final Shut-in Pressure	<u>450</u>		PSI Initial Opening <u>45</u>	Test <input checked="" type="checkbox"/> <u>700</u>
(Q) Final Hydrostatic Mud	<u>1670</u>		PSI Initial Shut-in <u>45</u>	Jars _____
			Final Flow <u>45</u>	Safety Joint _____
			Final Shut-in <u>45</u>	Straddle _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]

Our Representative Ray Schwager Thank you

Mileage 48
 Other _____
 TOTAL PRICE \$ 748