

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 11480

Well Name & No. Eubank's #1-27 Test No. 3 Date 3-1-99
Company Deutsche Oil Company Zone Tested Arbuckle
Address 8100 E. 22nd Street N. Bldg 600 Wichita 67226 Elevation 2065 KB 2060GL
Co. Rep / Geo. Kent Deutsch Cont. Pickrell Est. Ft. of Pay - Por. - %
Location: Sec. 27 Twp. 23^s Rge. 16^w Co. Pawnee State Ks
No. of Copies Reg Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 4049-4095 Initial Str Wt./Lbs. 60000 Unseated Str Wt./Lbs. 61000
Anchor Length 46 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 70000
Top Packer Depth 4044 Tool Weight 2200
Bottom Packer Depth 4049 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
Total Depth 4095 Wt. Pipe Run - Drill Collar Run 180
Mud Wt. 9.2 LCM 1st Vis. 45 WL 16 Drill Pipe Size 4 1/2 XH Ft. Run 3847
Blow Description TFP - Weak Blow Throughout 1/2" To 2 1/2" Blow
FFP - Strong Blow Throughout

HAD 1" Blow back on SHUT-IN

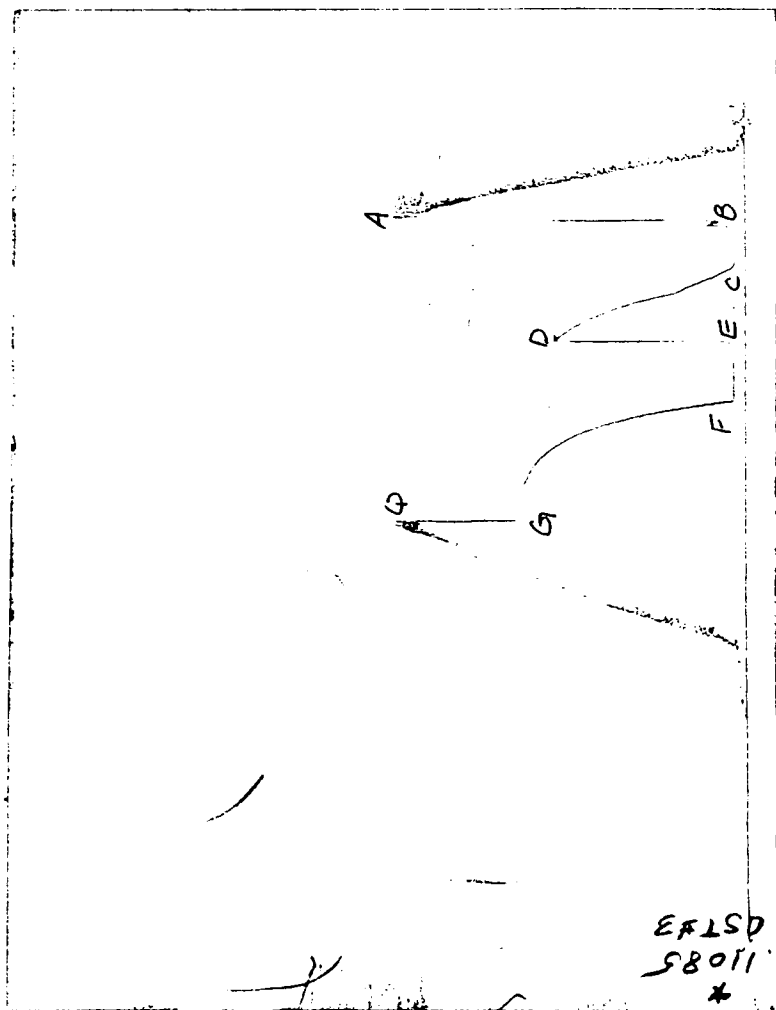
Recovery — Total Feet 30 GIP 570 Ft. in DC 30 Ft. in DP -
Rec. 30 Feet Of Mud %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
BHT 118 °F Gravity - °API D@ - °F Corrected Gravity - °API
RW - @ - °F Chlorides - ppm Recovery Chlorides 7500 ppm System

	AK-1	Alpine
(A) Initial Hydrostatic Mud	<u>1939</u>	PSI Recorder No. <u>11085</u> T-On Location <u>1830</u>
(B) First Initial Flow Pressure	<u>77</u>	PSI (depth) <u>4053</u> T-Started <u>1850</u>
(C) First Final Flow Pressure	<u>55</u>	PSI Recorder No. <u>13547</u> T-Open <u>2010</u>
(D) Initial Shut-In Pressure	<u>1104</u>	PSI (depth) <u>4056</u> T-Pulled <u>2355</u>
(E) Second Initial Flow Pressure	<u>66</u>	PSI Recorder No. <u>-</u> T-Out <u>0215</u>
(F) Second Final Flow Pressure	<u>66</u>	PSI (depth) <u>-</u> T-Off Location <u>-</u>
(G) Final Shut-in Pressure	<u>1310</u>	PSI Initial Opening <u>30</u> Test <u>✓</u>
(Q) Final Hydrostatic Mud	<u>1939</u>	PSI Initial Shut-in <u>60</u> Jars <u>-</u>
		Final Flow <u>45</u> Safety Joint <u>-</u>
		Final Shut-in <u>90</u> Straddle <u>-</u>
		Circ. Sub <u>-</u>
		Sampler <u>-</u>
		Extra Packer <u>-</u>
		Elec. Rec. <u>-</u>
		Mileage <u>-</u>
		Other <u>-</u>
		TOTAL PRICE \$ <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 [Signature]
Our Representative RAY SCHWAGER Thank you

CHART PAGE



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

TRILOBITE TESTING L.L.C.

RATOR : Deutsch Oil Company
 NAME: Eubanks #1-27
 ATION : 27-23s-16w Pawnee co KS
 ERVAL : 4049.00 To 4095.00 ft

DATE 3-1-99
 KB 2065.00 ft TICKET NO: 11480 DST #3
 GR 2060.00 ft FORMATION: Arbuckle
 TD 4095.00 ft TEST TYPE: CONV

ORDER DATA

ns	Field	1	2	3	4	TIME DATA-----
30 Rec.	11085	11085	13547			PF Fr. 2010 to 2040 hr
60 Range(Psi)	4300.0	4300.0	4200.0	0.0	0.0	IS Fr. 2040 to 2140 hr
45 Clock(hrs)	12	12	12			SF Fr. 2140 to 2225 hr
90 Depth(ft)	4053.0	4053.0	4056.0	0.0	0.0	FS Fr. 2225 to 2355 hr

	Field	1	2	3	4	
Init Hydro	1939.0	1939.0	0.0	0.0	0.0	T STARTED 1850 hr
First Flow	77.0	77.0	0.0	0.0	0.0	T ON BOTM 2005 hr
Final Flow	55.0	59.0	0.0	0.0	0.0	T OPEN 2010 hr
In Shut-in	1104.0	1090.0	0.0	0.0	0.0	T PULLED 2355 hr
Init Flow	66.0	75.0	0.0	0.0	0.0	T OUT 0215 hr
Final Flow	66.0	67.0	0.0	0.0	0.0	
Fl Shut-in	1310.0	1310.0	0.0	0.0	0.0	TOOL DATA-----
Final Hydro	1939.0	1939.0	0.0	0.0	0.0	Tool Wt. 2200.00 lbs
ide/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 61000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 180.00 ft
						D.P. Length 3847.00 ft

COVERY

Fluid 30.00 ft of 30.00 ft in DC and 0.00 ft in DP
 .00 ft of Gas in pipe
 .00 ft of Mud
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of

LINITY 0.00 P.P.M. A.P.I. Gravity 0.00

OW DESCRIPTION

itial Flow:
 Weak blow throughout 1/2" to 2 1/2"
 blow
 itial Shut-in:
 " blow back
 al Flow:
 Strong blow throuhout
 al Shut-in:
 " blow back

PLES:
 T TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	45.00 S/L
W.L.	16.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 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.	Kent Deutsch
Contr.	Pickrell
Rig #	
Unit #	
Pump T.	

Test Successful: Y

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11479

Well Name & No. Eubank #1-27 Test No. 2 Date 2-28-99
Company Deutch Oil Company Zone Tested LANSING A-B
Address 8100 E. 22nd STREET N. Bldg 600 Wichita 67226 Elevation 2065 KB 2060 GL
Co. Rep / Geo. Kent Deutch Cont. Pickrell Est. Ft. of Pay - Por. - %
Location: Sec. 27 Twp. 23 Rge. 16 Co. Pawnee State KS
No. of Copies Req Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 3674-3720 Initial Str Wt./Lbs. 60000 Unseated Str Wt./Lbs. 60000
Anchor Length 46 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 63000
Top Packer Depth 3669 Tool Weight 2200
Bottom Packer Depth 3674 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
Total Depth 3720 Wt. Pipe Run - Drill Collar Run 240
Mud Wt. B.G LCM 1/4" Vis. 42 WL N/A Drill Pipe Size 4 1/2 X H Ft. Run 2412
Blow Description IFP - WxAK Blow Throughout 1" decreased to 1/4" Blow
FFP - WxAK Blow Throughout 1/4" Blow

Recovery — Total Feet 65 GIP - Ft. in DC 65 Ft. in DP -
Rec. 65 Feet Of Mud %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 108 °F Gravity - °API D@ - °F Corrected Gravity - °API
RW - @ - °F Chlorides - ppm Recovery Chlorides 6300 ppm System

	AK-1	Alpine
(A) Initial Hydrostatic Mud	<u>1722</u>	
(B) First Initial Flow Pressure	<u>77</u>	
(C) First Final Flow Pressure	<u>44</u>	
(D) Initial Shut-In Pressure	<u>1115</u>	
(E) Second Initial Flow Pressure	<u>77</u>	
(F) Second Final Flow Pressure	<u>77</u>	
(G) Final Shut-in Pressure	<u>1050</u>	
(Q) Final Hydrostatic Mud	<u>1668</u>	

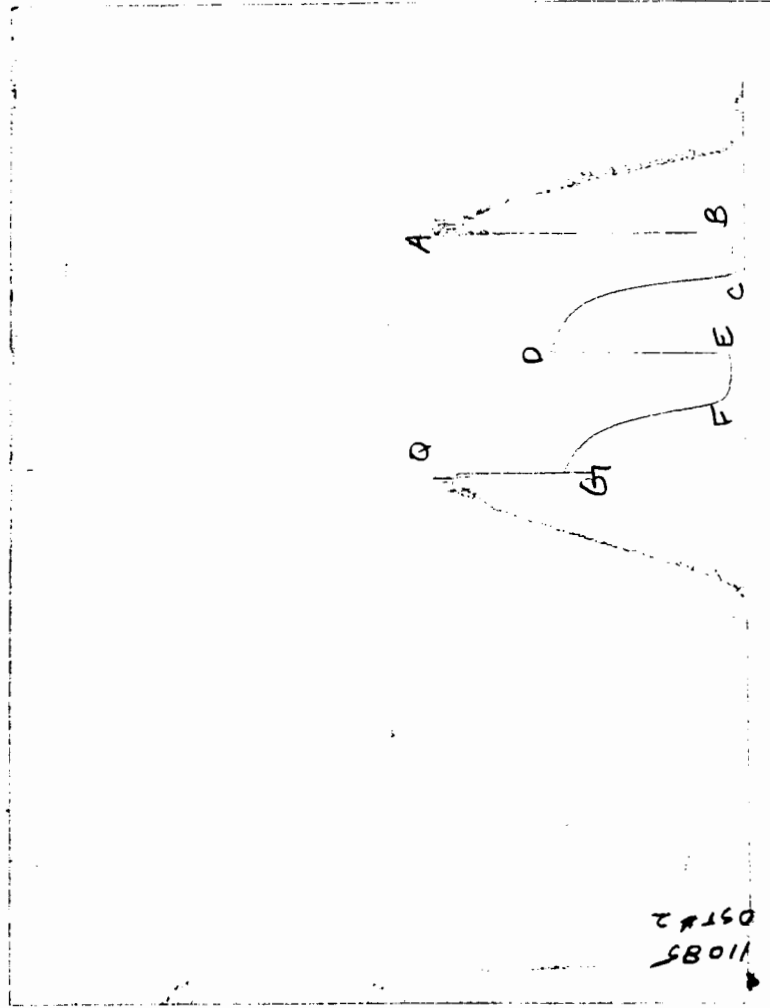
PSI Recorder No. 11085 T-On Location 830
PSI (depth) 3677 T-Started 940
PSI Recorder No. 10270 T-Open 1115
PSI (depth) 3680 T-Pulled 1415
PSI Recorder No. - T-Out 1600
PSI (depth) - T-Off Location 1625
PSI Initial Opening 30 Test ✓
PSI Initial Shut-in 60 Jars -
Final Flow 30 Safety Joint -
Final Shut-in 60 Straddle -
Circ. Sub -
Sampler -
Extra Packer -
Elec. Rec. -
Mileage -
Other -
TOTAL PRICE \$ ✓

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Approved By [Signature]

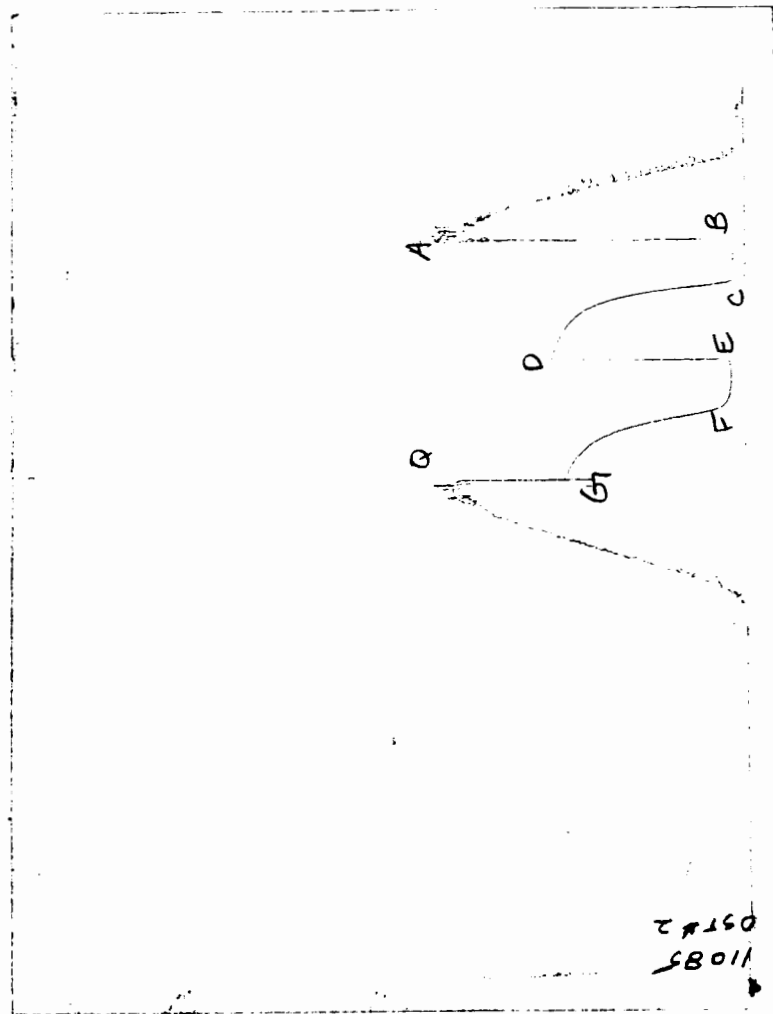
Our Representative Ray Schwager Thankyou

CHART PAGE



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

CHART PAGE



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



TRILOBITE TESTING L.L.C.

OPERATOR : Deutsch Oil Company
 WELL NAME: Eubank #1-27
 LOCATION : 27-23w-16w Pawnee co KS
 INTERVAL : 3674.00 To 3720.00 ft

DATE 2-28-99
 KB 2065.00 ft TICKET NO: 11479 DST #2
 GR 2060.00 ft FORMATION: Lansing A & B
 TD 3720.00 ft TEST TYPE: CONV

ORDER DATA

ins		Field	1	2	3	4	TIME DATA-----
30	Rec.	11085	11085	10270			PF Fr. 1115 to 1145 hr
60	Range(Psi)	4300.0	4300.0	4150.0	0.0	0.0	IS Fr. 1145 to 1245 hr
30	Clock(hrs)	12	12	12			SF Fr. 1245 to 1315 hr
60	Depth(ft)	3677.0	3677.0	3680.0	0.0	0.0	FS Fr. 1315 to 1415 hr

	Field	1	2	3	4	
Init Hydro	1722.0	1739.0	0.0	0.0	0.0	T STARTED 0940 hr
First Flow	77.0	79.0	0.0	0.0	0.0	T ON BOTM 1110 hr
Final Flow	44.0	51.0	0.0	0.0	0.0	T OPEN 1115 hr
In Shut-in	1115.0	111.0	0.0	0.0	0.0	T PULLED 1415 hr
Init Flow	77.0	54.0	0.0	0.0	0.0	T OUT 1600 hr
Final Flow	77.0	54.0	0.0	0.0	0.0	
Fl Shut-in	1050.0	1043.0	0.0	0.0	0.0	TOOL DATA-----
Final Hydro	1668.0	1661.0	0.0	0.0	0.0	Tool Wt. 2200.00 lbs
Side/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 63000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 60000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 240.00 ft
						D.P. Length 2412.00 ft

RECOVERY

Fluid 65.00 ft of 65.00 ft in DC and 0.00 ft in DP
 0.00 ft of 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

ALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak blow throughout 1" decreased
 to 1/4" blow
 Final Flow:
 Weak blow throughout 1/4" blow

MUD DATA-----

Mud Type	Chemical
Weight	8.60 lb/cf
Vis.	42.00 S/L
W.L.	0.00 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	108.00 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. Kent Deutsch
 Contr. Pickrell
 Rig #
 Unit #
 Pump T.

Test Successful: Y

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11478

Well Name & No.	<u>EUBANK #1-27</u>	Test No.	<u>1</u>	Date	<u>2-25-99</u>
Company	<u>Deutch Oil Company</u>	Zone Tested	<u>CHASE GROUP</u>		
Address	<u>8100 E. 22nd STREET N, Bldg 600 WICHITA 67226</u>		Elevation	<u>2065</u> KB	<u>2060</u> GL
Co. Rep / Geo.	<u>KEAT Deutch</u>	Cont.	<u>PICKRELL</u>	Est. Ft. of Pay	<u>-</u> Por. <u>-</u> %
Location: Sec.	<u>27</u>	Twp.	<u>23^s</u>	Rge.	<u>16^w</u> Co. <u>Pawnee</u> State <u>Ks</u>
No. of Copies	<u>Reg</u>	Distribution Sheet (Y, N)	<u>-</u>	Turnkey (Y, N)	<u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested	<u>2035-2190</u>	Initial Str Wt/Lbs.	<u>42000</u>	Unseated Str Wt/Lbs.	<u>42000</u>
Anchor Length	<u>155</u>	Wt. Set Lbs.	<u>20000</u>	Wt. Pulled Loose/Lbs.	<u>42000</u>
Top Packer Depth	<u>2030</u>	Tool Weight	<u>2200</u>		
Bottom Packer Depth	<u>2035</u>	Hole Size — 7 7/8"	<u>yes</u>	Rubber Size — 6 3/4"	<u>yes</u>
Total Depth	<u>2190</u>	Wt. Pipe Run	<u>-</u>	Drill Collar Run	<u>180</u>
Mud Wt.	<u>N/A</u>	LCM	<u>N/A</u>	Vis.	<u>N/A</u> WL <u>N/A</u>
Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>1835</u>		
Blow Description	<u>IFP - WEAK building TO A FAIR BLOW 1/2" TO 5" BLOW</u> <u>FFP - WEAK BLOW throughout 1/2" TO 2" BLOW</u> <u>NO BLOW ON SHUT-IN'S</u>				

Recovery — Total Feet	<u>210</u>	GIP	<u>-</u>	Ft. in DC	<u>180</u>	Ft. in DP	<u>30</u>
Rec.	<u>210</u>	Feet Of	<u>GCM</u>	<u>18</u> %gas	<u>-</u> %oil	<u>10</u> %water	<u>72</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	<u>88"</u>	°F Gravity	<u>-</u>	°API D@	<u>-</u>	°F Corrected Gravity	<u>-</u> °API
RW	<u>.12</u>	@	<u>7.3</u>	°F Chlorides	<u>65000</u>	ppm Recovery	Chlorides <u>N/A</u> ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	<u>1071</u>	PSI	Recorder No.	<u>11085</u>	T-On Location	<u>710</u>
(B) First Initial Flow Pressure	<u>132</u>	PSI	(depth)	<u>2181</u>	T-Started	<u>740</u>
(C) First Final Flow Pressure	<u>143</u>	PSI	Recorder No.	<u>10270</u>	T-Open	<u>950</u>
(D) Initial Shut-In Pressure	<u>615</u>	PSI	(depth)	<u>2184</u>	T-Pulled	<u>1335</u>
(E) Second Initial Flow Pressure	<u>165</u>	PSI	Recorder No.	<u>-</u>	T-Out	<u>1510</u>
(F) Second Final Flow Pressure	<u>187</u>	PSI	(depth)	<u>-</u>	T-Off Location	<u>1525</u>
(G) Final Shut-in Pressure	<u>615</u>	PSI	Initial Opening	<u>30</u>	Test	<u>✓ 600</u>
(Q) Final Hydrostatic Mud	<u>1050</u>	PSI	Initial Shut-in	<u>60</u>	Jars	<u>-</u>
			Final Flow	<u>45</u>	Safety Joint	<u>✓ 20</u>
			Final Shut-in	<u>90</u>	Straddle	<u>-</u>

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Approved By

Our Representative

RAC SCHWABER Thank you

Circ. Sub -
Sampler -
Extra Packer -
Elec. Rec. -
Mileage -
Other -
TOTAL PRICE \$ ✓ 600

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Deutsch Oil Company
 WELL NAME: Eubank #1-27
 LOCATION : 27-23s-16w Pawnee co KS
 INTERVAL : 2035.00 To 2190.00 ft

DATE 2-25-99
 KB 2065.00 ft TICKET NO: 11478 DST #1
 GR 2060.00 ft FORMATION: Chase Group
 TD 2190.00 ft TEST TYPE: CONV

ORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
30	Rec.	11085	11085	10270		PF Fr. 0950 to 1020 hr
60	Range(Psi)	4300.0	4300.0	4150.0	0.0	IS Fr. 1020 to 1120 hr
45	Clock(hrs)	12	12	12		SF Fr. 1120 to 1205 hr
90	Depth(ft)	2181.0	2181.0	2184.0	0.0	FS Fr. 1205 to 1335 hr

	Field	1	2	3	4	
A. Init Hydro	1071.0	1089.0	0.0	0.0	0.0	T STARTED 0740 hr
First Flow	132.0	123.0	0.0	0.0	0.0	T ON BOTM 0945 hr
Final Flow	143.0	148.0	0.0	0.0	0.0	T OPEN 0950 hr
C. In Shut-in	615.0	609.0	0.0	0.0	0.0	T PULLED 1335 hr
D. Init Flow	165.0	180.0	0.0	0.0	0.0	T OUT 1510 hr
Final Flow	187.0	193.0	0.0	0.0	0.0	
F. Fl Shut-in	615.0	600.0	0.0	0.0	0.0	
G. Final Hydro	1050.0	1048.0	0.0	0.0	0.0	

ide/Outside

O O I

TOOL DATA-----

Tool Wt.	22000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	42000.00 lbs
Initial Str Wt	42000.00 lbs
Unseated Str Wt	42000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	180.00 ft
D.P. Length	1835.00 ft

RECOVERY

Fluid 210.00 ft of 180.00 ft in DC and 30.00 ft in DP
 .00 ft of Gas cut mud 18% gas 10% water 72% 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 65000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak building to a fari blow 1/2"
 to 5" blow
 Final Flow:
 Weak blow throughout 1/2" to 2"
 blow

MUD DATA-----

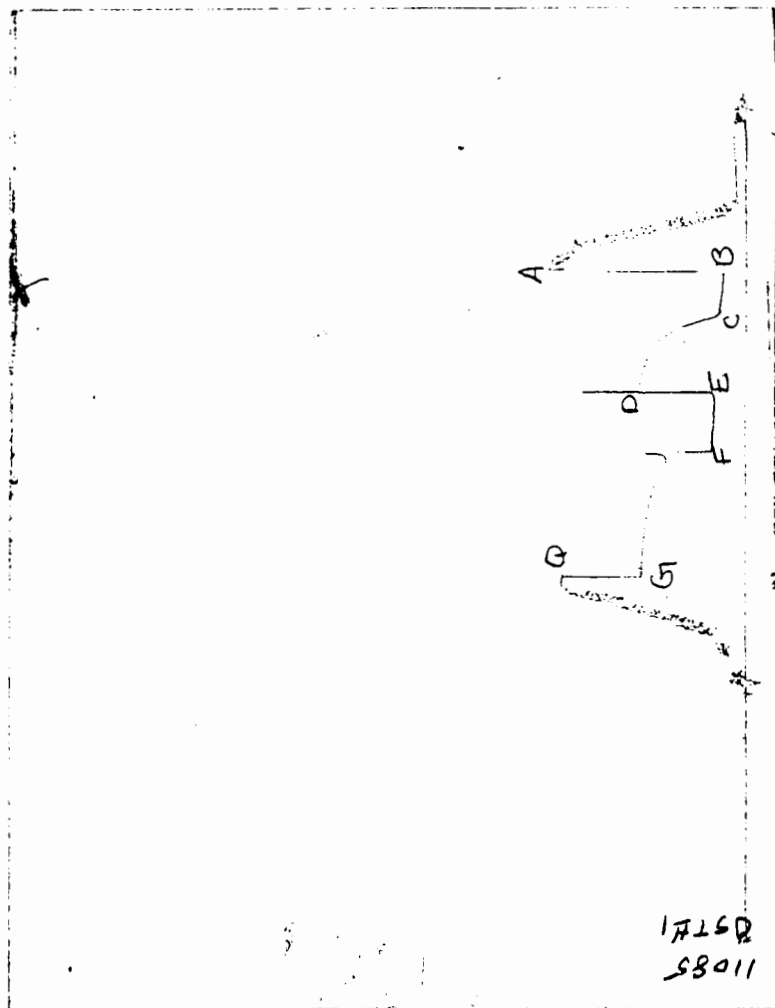
Mud Type	Chemical
Weight	0.00 lb/cf
Vis.	0.00 S/L
W.L.	0.00 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	88.00 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. Kent Deutsch
 Contr. Pickrell
 Rig #
 Unit #
 Pump T.

Test Successful: Y

CHART PAGE



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

Computer Inventoried

ORIGINAL

Well Name: Eubank #1-27
Company: Deutsch Oil Company
Location: 27~~2~~3s-16w
Pawnee County Kansas
Date: 3-3-99

RECEIVED
OCT 1 1999

AUG 1 1999

LANDS DIVISION
WICHITA, KS