

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10868

Well Name & No. CBH 1-14 Test No. 1 Date 1-24-98
Company LEBSACK OIL PROD INC Zone Tested MORROW
Address P.O BOX 489 HAYS KS 67201 Elevation 3110 KB 3105 GL
Co. Rep / Geo. WAYNE LEBSACK Cont. ABERCROMBLE #8 Est. Ft. of Pay Por. %
Location: Sec. 14 Twp. 21S Rge. 35W Co. KEARNEY State KS
No. of Copies REG Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 4815 - 4902 Initial Str Wt./Lbs. 40,000 Unseated Str Wt./Lbs. 40,000
Anchor Length 87 FT Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs.
Top Packer Depth 4810 Tool Weight 3,000
Bottom Packer Depth 4815 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 4902 Wt. Pipe Run 540 Drill Collar Run 0
Mud Wt. 9.2 LCM 0 Vis. 49 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 4270
Blow Description 1ST FLOW: WEAK BLOW DEAD IN 15 MINUTES
2ND FLOW: NOT RAN

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
<u>20</u>	<u> </u>	<u> </u>	<u>20</u>	<u> </u>	<u> </u>	<u>100</u>	<u> </u>
Rec. <u>20</u> Feet Of <u>DRILLING 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 104° °F Gravity °API D@ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 5,000 ppm System
(A) Initial Hydrostatic Mud 2394 PSI Recorder No. 13547 T-Started 2100
(B) First Initial Flow Pressure 54 PSI (depth) 4818 T-Open 2240
(C) First Final Flow Pressure 57 PSI Recorder No. 3026-PLUCT T-Pulled 2340
(D) Initial Shut-in Pressure 156 PSI (depth) 4887 T-Out 0130
(E) Second Initial Flow Pressure PSI Recorder No.
(F) Second Final Flow Pressure PSI (depth)
(G) Final Shut-in Pressure PSI Initial Opening 30 Test
(H) Final Hydrostatic Mud 2357 PSI Initial Shut-in 30 Jars
Final Flow Safety Joint
Final Shut-in Straddle
Circ. Sub
Sampler
Extra Packer
Elect. Rec.
Other

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 Wayne Lebsack
Our Representative

TOTAL PRICE \$

TEST HISTORY

CBH #1-14 Lehsack Oil Prod. DST #1 Tk#10868

Flag Points:

	t (Min.)	P (PSig)
A:	0.00	2394.54
B:	0.00	53.94
C:	25.00	57.38
D:	35.50	156.06
Q:	0.00	2357.43

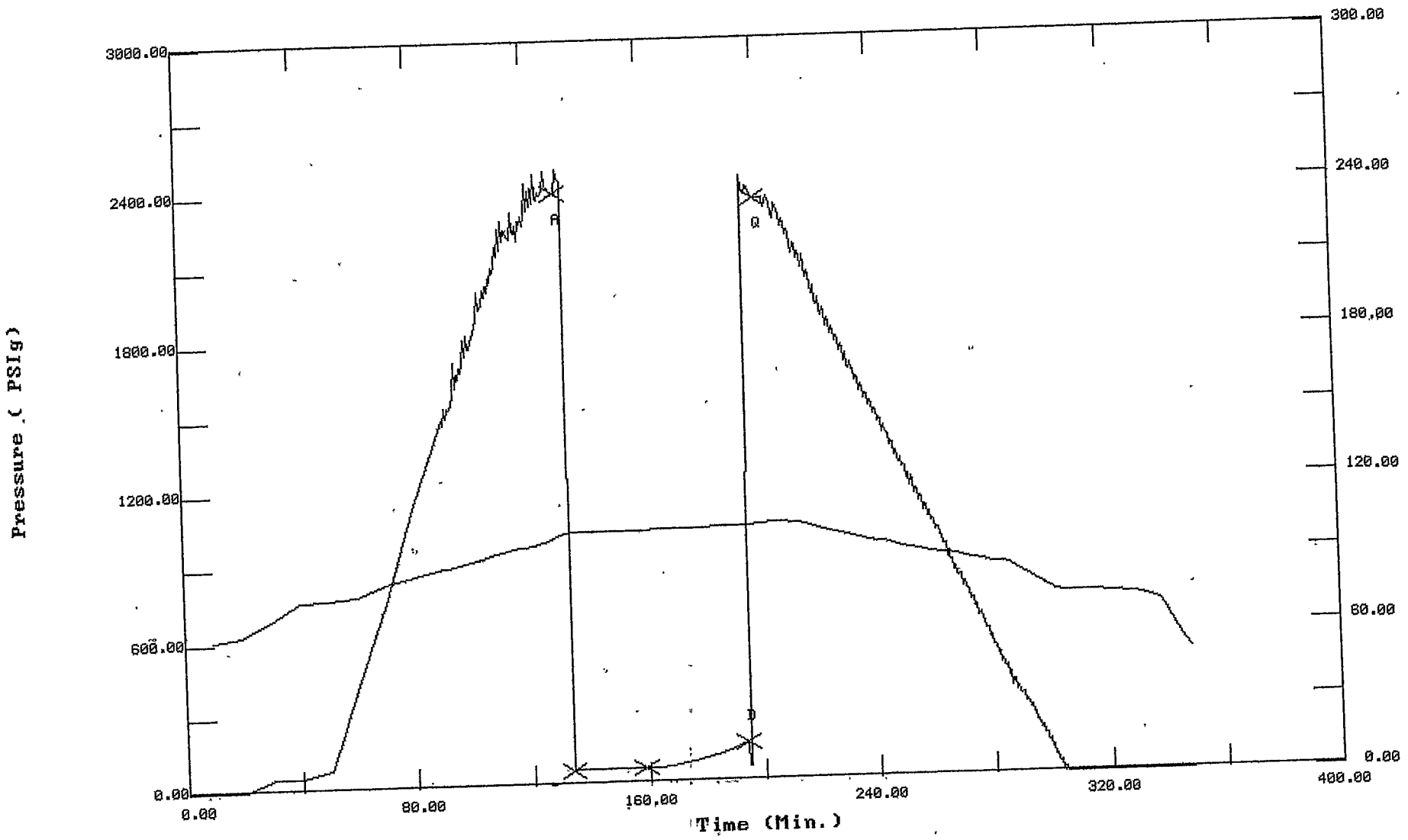
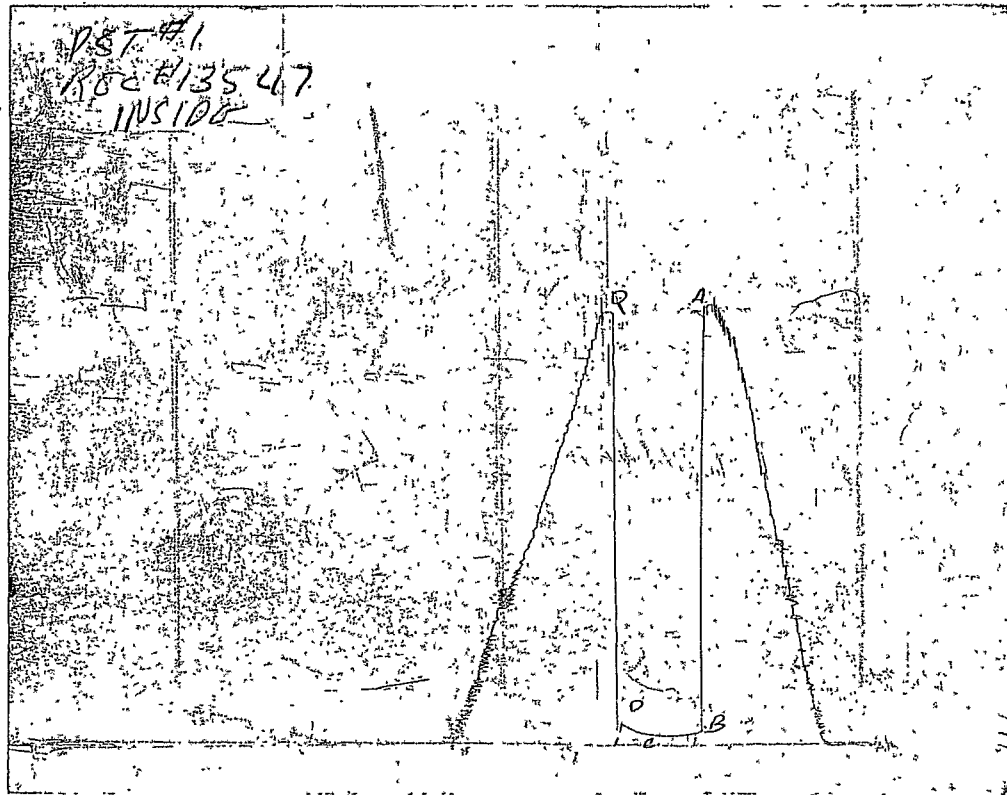


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Lebsack Oil Prod. Inc.
 WELL NAME: CBH #1-14
 LOCATION : S14-21S-35W
 INTERVAL : 4815.00 To 4902.00 ft

DATE 1\24\98
 KB 3110.00 ft
 GR 3105.00 ft
 TD 4902.00 ft
 TICKET NO: 10868
 FORMATION: Morrow
 TEST TYPE: CONV
 DST #1

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13547	13547	3026			PF Fr. 2240 to 2310 hr
SI 30 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 2310 to 2340 hr
SF 0 Clock(hrs)	12	12	Elect			SF Fr. ---- to ---- hr
FS 0 Depth(ft)	4818.0	4818.0	4884.0	0.0	0.0	FS Fr. ---- to ---- hr

	Field	1	2	3	4
A. Init Hydro	2353.0	0.0	2394.0	0.0	0.0
B. First Flow	42.0	0.0	54.0	0.0	0.0
C. Final Flow	42.0	0.0	57.0	0.0	0.0
D. In Shut-in	110.0	0.0	156.0	0.0	0.0
E. Init Flow	0.0	0.0	0.0	0.0	0.0
F. Final Flow	0.0	0.0	0.0	0.0	0.0
G. FI Shut-in	0.0	0.0	0.0	0.0	0.0
H. Final Hydro	2330.0	0.0	2357.0	0.0	0.0
I. Inside/Outside	i		i		

T STARTED 2100 hr
 T ON BOTM 2235 hr
 T OPEN 2240 hr
 T PULLED 2340 hr
 T OUT 0130 hr

TOOL DATA-----
 Tool Wt. 3000.00 lbs
 Wt Set On Packer 20000.00 lbs
 Wt Pulled Loose 46000.00 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 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 0.00 ft
 D.P. Length 4270.00 ft
 H.W. I.D 3.20 in
 H.W. Length 540.00 ft

RECOVERY
 Total Fluid 20.00 ft of 0.00 ft in DC and 20.00 ft in DP
 0.00 ft of Drilling 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

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

MUD DATA-----
 Mud Type Chem.
 Weight 9.20 lb/cf
 Vis. 49.00 S/L
 W.L. 8.80 in3
 F.C. 0.00 in
 Mud Drop

LOW DESCRIPTION
 TEST FLOW: Weak blow dead in 15 minutes

NO FLOW: Not ran



Amt. of fill 0.00 ft
 Btm. H. Temp. 104.00 F
 Hole Condition excellent
 % 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 John Riedl
 Co. Rep. Wayne Lebsack
 Contr. Abercrombie
 Rig # 8
 Unit #
 Pump T.

MPLES:
 INT TO:

Test Successful: Y

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: CBH #1-14 Lebsack Oil Prod.DST #1 Tk#10868

DATE: 01/24/98 TIME: 20:27:58

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	130.50	2394.5	0.0	101.37		
***** Start Flow 1	0.00	53.9	0.0	102.20		
	0.50	54.4	0.5	102.28		
	1.00	54.7	0.7	102.32		
	1.50	54.8	0.8	102.35		
	2.00	54.9	1	102.38		
	2.50	55.0	1.0	102.38		
	3.00	55.1	1.1	102.39		
	3.50	55.2	1.3	102.40		
	4.00	55.3	1.3	102.41		
	4.50	55.4	1.4	102.42		
	5.00	55.5	1.5	102.42		
	5.50	55.5	1.6	102.43		
	6.00	55.6	1.7	102.43		
	6.50	55.7	1.7	102.43		
	7.00	55.7	1.7	102.43		
	7.50	55.8	1.9	102.43		
	8.00	55.8	1.9	102.43		
	8.50	55.9	2.0	102.44		
	9.00	56.0	2.0	102.43		
	9.50	56.0	2.1	102.44		
	10.00	56.1	2.1	102.43		
	10.50	56.2	2.2	102.43		
	11.00	56.2	2.2	102.44		
	11.50	56.1	2.2	102.45		
	12.00	56.4	2.5	102.45		
	12.50	56.4	2.4	102.45		
	13.00	56.4	2.5	102.46		
	13.50	56.5	2.5	102.47		
	14.00	56.5	2.5	102.48		
	14.50	56.6	2.6	102.49		
	15.00	56.3	2.3	102.50		
	15.50	56.6	2.6	102.50		
	16.00	56.6	2.7	102.51		
	16.50	56.7	2.8	102.53		
	17.00	56.8	2.8	102.54		
	17.50	56.8	2.8	102.56		
	18.00	56.8	2.8	102.57		
	18.50	56.8	2.9	102.58		
	19.00	56.9	2.9	102.59		
	19.50	57.0	3.1	102.59		
	20.00	56.9	2.9	102.61		
	20.50	56.8	2.9	102.63		
	21.00	57.0	3.1	102.63		
	21.50	57.2	3.2	102.64		
	22.00	56.8	2.9	102.66		
	22.50	56.6	2.7	102.66		
	23.00	58.0	4.0	102.68		
	23.50	57.4	3.5	102.68		
	24.00	57.0	3.1	102.70		
	24.50	58.7	4.7	102.70		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: CBH #1-14 Lebsack Oil Prod.DST #1 Tk#10868
 DATE: 01/24/98 TIME: 20:27:58

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** End Flow 1	25.00	57.4	3.4	102.72		
***** Start Shutin 1	0.00	57.4	0.0	102.72	0.0000	0.003
	0.50	57.3	-0.1	102.73	51.0000	0.003
	1.00	57.4	0.0	102.74	26.0000	0.003
	1.50	56.9	-0.4	102.75	17.6667	0.003
	2.00	57.5	0.1	102.75	13.5000	0.003
	2.50	57.1	-0.3	102.77	11.0000	0.003
	3.00	57.2	-0.2	102.79	9.3333	0.003
	3.50	56.9	-0.5	102.80	8.1429	0.003
	4.00	57.9	0.5	102.82	7.2500	0.003
	4.50	57.5	0.1	102.84	6.5556	0.003
	5.00	57.7	0.3	102.85	6.0000	0.003
	5.50	56.9	-0.5	102.86	5.5455	0.003
	6.00	58.1	0.7	102.87	5.1667	0.003
	6.50	58.8	1.5	102.88	4.8462	0.003
	7.00	61.1	3.7	102.91	4.5714	0.004
	7.50	62.2	4.8	102.91	4.3333	0.004
	8.00	63.2	5.8	102.94	4.1250	0.004
	8.50	64.2	6.8	102.96	3.9412	0.004
	9.00	64.6	7.2	102.97	3.7778	0.004
	9.50	65.2	7.8	102.99	3.6316	0.004
	10.00	65.5	8.2	103.00	3.5000	0.004
	10.50	66.6	9.2	103.02	3.3810	0.004
	11.00	67.6	10.3	103.03	3.2727	0.005
	11.50	69.3	11.9	103.04	3.1739	0.005
	12.00	70.1	12.7	103.05	3.0833	0.005
	12.50	71.3	13.9	103.08	3.0000	0.005
	13.00	72.0	14.6	103.10	2.9231	0.005
	13.50	73.0	15.7	103.10	2.8519	0.005
	14.00	74.0	16.7	103.12	2.7857	0.005
	14.50	75.1	17.7	103.13	2.7241	0.006
	15.00	76.8	19.5	103.15	2.6667	0.006
	15.50	78.0	20.6	103.16	2.6129	0.006
	16.00	79.1	21.7	103.17	2.5625	0.006
	16.50	80.5	23.2	103.19	2.5152	0.006
	17.00	81.9	24.6	103.21	2.4706	0.007
	17.50	83.3	25.9	103.21	2.4286	0.007
	18.00	84.6	27.3	103.24	2.3889	0.007
	18.50	86.1	28.7	103.25	2.3514	0.007
	19.00	87.4	30.1	103.26	2.3158	0.008
	19.50	88.9	31.5	103.27	2.2821	0.008
	20.00	90.3	33.0	103.29	2.2500	0.008
	20.50	91.8	34.5	103.29	2.2195	0.008
	21.00	93.3	35.9	103.31	2.1905	0.009
	21.50	94.9	37.5	103.32	2.1628	0.009
	22.00	96.4	39.0	103.33	2.1364	0.009
	22.50	98.1	40.7	103.35	2.1111	0.01
	23.00	99.8	42.4	103.37	2.0870	0.01
	23.50	101.5	44.1	103.39	2.0638	0.010
	24.00	103.1	45.7	103.39	2.0417	0.011
	24.50	104.9	47.5	103.41	2.0204	0.011

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: CBH #1-14 Lebsack Oil Prod.DST #1 Tk#10868

DATE: 01/24/98 TIME: 20:27:58

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	25.00	106.6	49.3	103.42	2.0000	0.011
	25.50	108.5	51.1	103.44	1.9804	0.012
	26.00	110.6	53.2	103.45	1.9615	0.012
	26.50	112.3	55.0	103.46	1.9434	0.013
	27.00	114.3	57.0	103.48	1.9259	0.013
	27.50	116.3	59.0	103.49	1.9091	0.014
	28.00	118.4	61.0	103.50	1.8929	0.014
	28.50	120.5	63.1	103.52	1.8772	0.015
	29.00	122.7	65.3	103.53	1.8621	0.015
	29.50	124.6	67.3	103.55	1.8475	0.016
	30.00	126.8	69.4	103.55	1.8333	0.016
	30.50	129.1	71.7	103.57	1.8197	0.017
	31.00	131.3	73.9	103.59	1.8065	0.017
	31.50	133.6	76.2	103.60	1.7937	0.018
	32.00	137.5	80.1	103.62	1.7812	0.019
	32.50	140.5	83.2	103.64	1.7692	0.020
	33.00	143.0	85.6	103.65	1.7576	0.020
	33.50	145.5	88.1	103.66	1.7463	0.021
	34.00	148.1	90.7	103.68	1.7353	0.022
	34.50	150.7	93.3	103.69	1.7246	0.023
	35.00	153.4	96.0	103.70	1.7143	0.024
***** End Shut-in 1	35.50	156.1	98.7	103.71	1.7042	0.024
***** Final Hydro.	200.00	2357.4	0.0	104.29		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

FILE 12582108

Test Ticket

No 10869

Well Name & No.	CBH #1-14	Test No.	2	Date	1-25-98				
Company	LEBSACK OIL PROD.	Zone Tested	MORROW						
Address	P.O. BOX 489 HAYS KS 67201	Elevation	3110	KB	3105 GL				
Co. Rep / Geo.	WAYNE LEBSACK	Cont.	ABERCROMBIE #8	Est. Ft. of Pay	Por. %				
Location: Sec.	14	Twp.	21S	Rge.	35W	Co.	KEARNY	State	KS
No. of Copies	806	Distribution Sheet (Y, N)	N	Turnkey (Y, N)	N	Evaluation (Y, N)			

Interval Tested	4908-5000	Initial Str. Wt./Lbs.	44,000	Unseated Str. Wt./Lbs.	47,000							
Anchor Length	92'	Wt. Set Lbs.	20,000	Wt. Pulled Loose/Lbs.	60,000							
Top Packer Depth	4903	Tool Weight	3,000									
Bottom Packer Depth	4908	Hole Size — 7 7/8"	✓	Rubber Size — 6 3/4"	✓							
Total Depth	5000	Wt. Pipe Run	540'	Drill Collar Run	—							
Mud Wt.	9.4	L:CM	0	Vis.	49	WL	11.2	Drill Pipe Size	4 1/2 x H	Ft. Run	4355	POSTS
Blow Description	1ST FLOW: WEAK BLOW BUILDING TO FAIR BLOW (4") 2ND FLOW: NOT RAN											

~~READ~~ ELECTRONIC RECORDER DID NOT RECORD PRESSURES

Recovery — Total Feet	240	GIP	—	Ft. in DC	—	Ft. in DP	240
Rec.	240	Feet Of	SLI MUD CUT WATER	%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	—	°F Gravity	—	°API D@	—	°F Corrected Gravity	—	°API	
RW	11	@	80	°F Chlorides	52,000	ppm Recovery	Chlorides	7,000	ppm System

(A) Initial Hydrostatic Mud	2386	PSI	Recorder No.	13547 READ	T-Started	2230
(B) First Initial Flow Pressure	53	PSI	(depth)	4911	T-Open	2245
(C) First Final Flow Pressure	127	PSI	Recorder No.	3026 FLOOT	T-Pulled	0115
(D) Initial Shut-in Pressure	560	PSI	(depth)	4914	T-Out	0400
(E) Second Initial Flow Pressure	—	PSI	Recorder No.	—		
(F) Second Final Flow Pressure	—	PSI	(depth)	—		
(G) Final Shut-in Pressure	—	PSI	Initial Opening	120	Test	✓
(H) Final Hydrostatic Mud	2360	PSI	Initial Shut-in	30	Jars	✓
			Final Flow	0	Safety Joint	✓
			Final Shut-in	0	Straddle	—
					Circ. Sub	—
					Sampler	—
					Extra Packer	—
					Elect. Rec.	✗
					Other	—

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Approved By _____

Our Representative _____

TRILOBITE TESTING L.L.C.

OPERATOR : Lebsack Oil Prod.

DATE 1/25/98

WELL NAME: CBH #1-14

KB 3110.00 ft

TICKET NO: 10869

DST #2

LOCATION : S14-21S-35W

GR 3105.00 ft

FORMATION: Morrow

INTERVAL : 4908.00 To 5000.00 ft

TD 5000.00 ft

TEST TYPE: CONV

RECORDER DATA

Time	Field	1	2	3	4	TIME DATA-----
PF 120 Rec.	13547	13547	3026			PF Fr. 2245 to 0145 hr
SI 30 Range(Psi)	4200.0	42000.0	4995.0	0.0	0.0	IS Fr. 0145 to 0215 hr
SF 0 Clock(hrs)	12	12	Elec			SF Fr. ---- to ---- hr
FS 0 Depth(ft)	4911.0	4911.0	4914.0	0.0	0.0	FS Fr. ---- to ---- hr

	Field	1	2	3	4	
A. Init Hydro	2386.0	2394.0	0.0	0.0	0.0	T STARTED 2130 hr
B. First Flow	53.0	78.0	0.0	0.0	0.0	T ON BOTM 2240 hr
B1. Final Flow	127.0	138.0	0.0	0.0	0.0	T OPEN 2245 hr
C. In Shut-in	560.0	571.0	0.0	0.0	0.0	T PULLED 0215 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 0430 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	2360.0	2347.0	0.0	0.0	0.0	
Inside/Outside	i	i	i			

TOOL DATA-----

Tool Wt.	3000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	60000.00 lbs
Initial Str Wt	44000.00 lbs
Unseated Str Wt	47000.00 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	0.00 ft
D.P. Length	4355.00 ft
H.W. I.D	3.20 in
H.W. Length	540.00 ft

RECOVERY

Total Fluid 240.00 ft of 0.00 ft in DC and 240.00 ft in DP
 240.00 ft of Slight mud cut water [10%mud 90%water]
 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 52000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chem.
Weight	9.40 lb/cf
Vis.	49.00 S/L
W.L.	11.20 in3
F.C.	0.00 in
Mud Drop	

BLOW DESCRIPTION

Initial Flow: Fair blow [1/2" building to 4"]
 Final Flow: Not ran

Amt. of fill	0.00 ft
Btm. H. Temp.	116.00 F
Hole Condition	Excellent
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00

SAMPLES:

SENT TO:

Reversed Out N
 Tool Chased N
 Tester John Riedl
 Co. Rep. Wayne Lebsack
 Contr. Abercrombie
 Rig # 8
 Unit #
 Pump T.

Test Successful: Y

TEST HISTORY

CBH 1-14 Lebsack Oil Prod. DST #2 TK#10869 1/25/98

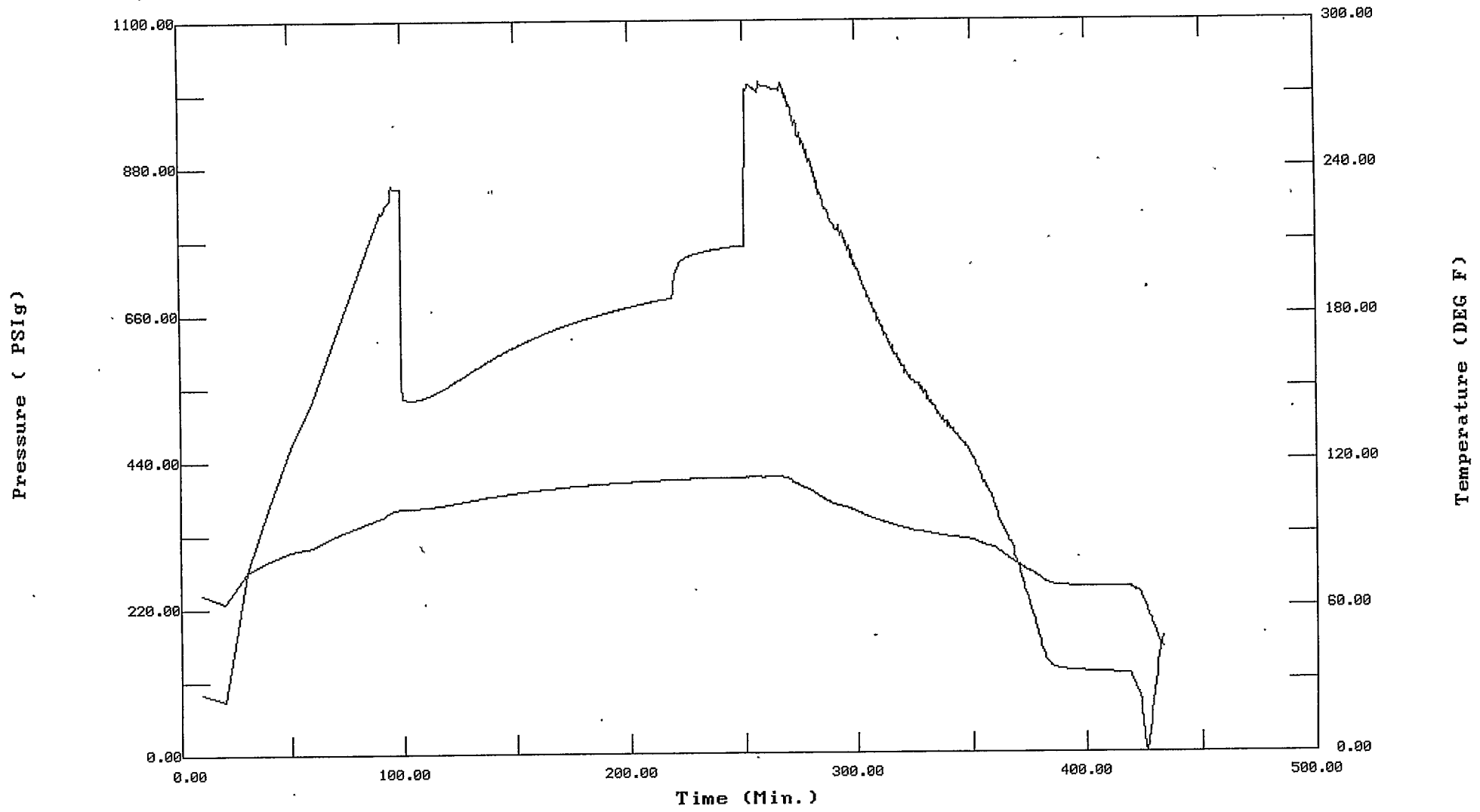
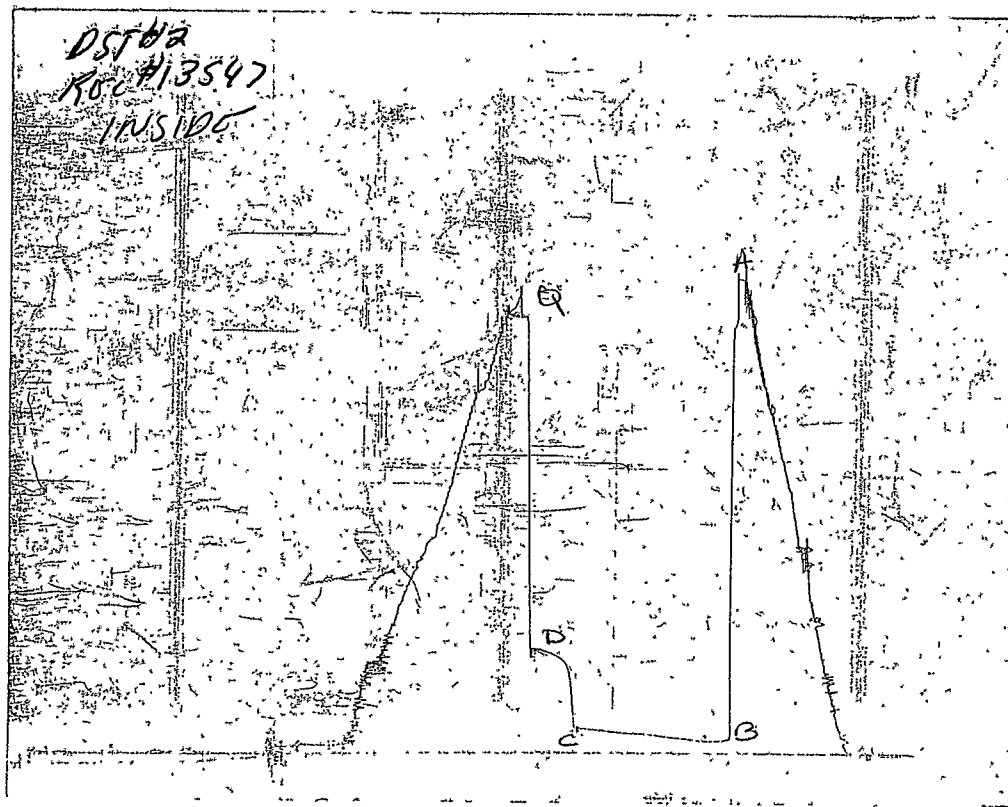


CHART PAGE



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