

STATE OF KANSAS
 STATE CORPORATION COMMISSION
 130 S. Market, Room 2078
 Wichita, KS 67202

WELL PLUGGING RECORD
 K.A.R.-82-3-117

API NUMBER 15-163-23,201-100

LEASE NAME Amrein #1

WELL NUMBER #1

TYPE OR PRINT
 NOTICE: Fill out completely
 and return to Cons. Div.
 office within 30 days.

1980 Ft. from S Section Line

1650 Ft. from E Section Line

SEC. 33 TWP. 8S RGE. 19 (E) or (W)

COUNTY Rooks

LEASE OPERATOR Deeab Company

ADDRESS 1202 Hickory Victoria Ks 67671

PHONE# () _____ OPERATORS LICENSE NO. _____

Character of Well oil

Date Well Completed 5-29-92

Plugging Commenced 6-24-98

(Oil, Gas, D&A, SWD, Input, Water Supply Well)

Plugging Completed 6-24-98

The plugging proposal was approved on 6-24-98 (date)

by Carl Godbow (KCC District Agent's Name).

Is ACO-1 filed? Yes If not, is well log attached? Yes

Producing Formation Kc. Depth to Top 3123 Bottom 3361 T.D. 3448

Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

Formation	Content	From	To	Size	Put In	Pulled out
		<u>262'</u>		<u>8 5/8</u>		<u>0</u>
		<u>3438'</u>		<u>5 1/2</u>		<u>30'</u>

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plug were used, state the character of same and depth placed, from ___ feet to ___ feet each set.

40 SK cement w/ 200 # Hulls 16 Sks Gel 100 Sks cement w/ 250 # Hulls Ceppah OFF
w/ 10 Sks cement Bnd 50 # Hulls Down 5 1/2 casing 8 5/8 Buckside mixed 25 Sks cement
Hole stayed Full

Name of Plugging Contractor L 9177 well servicing Inc License No. 37172

Address P.O Box 528 Russell Ks 67665

NAME OF PARTY RESPONSIBLE FOR PLUGGING FEES: _____

STATE OF _____ COUNTY OF _____, ss.

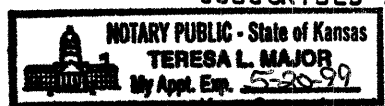
RECEIVED
 KANSAS
 CORPORATION
 COMMISSION
 10/2/98

(Employee of Operator) or (Operator) of above-described well, being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained and the log of the above-described well as filed the the same are true and correct, so help me God.

(Signature) Arnold Michaelis

(Address) P.O. Box 528 Russell, Ks

SUBSCRIBED AND SWORN TO before me this 30th day of Sept., 19 98



Teresa L. Major
 Notary Public

My Commission Expires: 5-20-99

JAY-LAN CORPORATION

207 West 12th Street • Hays, Kansas 67601 • (913) 628-1316

4002

6-8-92

Decab Oil Co.

ORDERED BY

ORDER NO.

CASE *Amrein*

WELL NO. *#1*

WORK STARTED *6:30* COMPLETED *1:30*

PULLED		EQUIPMENT	RUN	
JTS.	FT.		JTS.	FT.
		Anchor	1	
		Perf.	1	
		Working Barrel		
		Hold Down		
		Tubing	106	2 3/8
		Tubing Subs		
		Standing Valve		
		Traveling Valve		
		Pumps	1	
		Rods	130	3/4
		Rods		
		Rod Subs	2	10'-4' x 3/4
		Polish Rod	1	1 1/4 x 16 x 3/4
		Liner	1	1 1/2 x 6'
No.	Kind	Balls and Seats		
No.	Kind	Cups		

SERVICES	Hours	Per Hour	Amount
Unit and Power Tools <i>Rig #5, S.D.</i>	<i>5 1/2</i>	\$	\$
Operator <i>Francis A. Kreutzer</i>	<i>6 1/2</i>	\$	\$
Labor <i>Willie Barnes, Wary Erickson</i>	<i>13</i>	\$	\$
POWER TONGS		\$	\$
CIRCULATING HEAD		\$	\$
PLUG		\$	\$
PACKER		\$	\$
REMARKS: <i>Liner & D.T.R. Liner Run Tub set packer & wait on Rods, run pump & Rods space out well & set in stuffing box. T.D.M.D.</i>			
		TAX	
		TOTAL	

RECEIVED 8/24/92
STATE CORPORATION COMMISSION

RECORD #	G/LA/C	SC	LEASE #	WELL #	AMOUNT	G/LA/C	SC	LEASE #	WELL #	AMOUNT

AUG 24 1992
CONSERVATION DIVISION

15 1163-28201-00 00

By *[Signature]*

Phone 913-483-2627, Russell, Kansas
 Phone 913-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

2289

New

Date	5-14-92	Sec.	33	Twp	8	Range	19	Called Out		On Location		Job Start		Finish	6:45 AM
Lease	Amrein	Well No.	1	Location	Zurich 5 th N 3 rd W			County	100	State	KS				
Contractor	Emphasis CS														
Type Job	Production String														
Hole Size	7 7/8	T.D.	3446												
Csg.	5L	Depth	3446 3439												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.		Shoe Joint	15.00												
Press Max.		Minimum													
Meas Line		Displace													
Perf.															

Owner
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.

Charge To *Dekab Co*
 Street
 City State

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
x Larry Langhoffer

500 gal WFR-2 CEMENT

Amount Ordered *375 lbs 150 ASC*

Consisting of
 Common
 Poz. Mix
 Gel
 Chloride
 Quickset

Handling *3* Sales Tax

Mileage

Sub Total

Total

Floating Equipment *5L*

1 Basket Shoe (Area)

1 Baker Insert

2 Baskets

2 Centrifuges

RECEIVED
 STATE COMMISSION

AUG 24 1992

FLOAT WELD

EQUIPMENT		
Pumptrk	No. <i>153</i>	Cementer <i>Dave</i>
		Helper <i>Jerald</i>
Pumptrk	No. <i>146</i>	Cementer <i>Mark</i>
		Helper <i>Joe</i>
Bulktrk	<i>813</i>	Driver
Bulktrk		Driver

DEPTH of Job	
Reference:	<i>Pump trk ch</i>
	<i>2 1/2 Per mile</i>
	<i>52 Rubber plug</i>
	Sub Total
	Tax
	Total

Remarks: *Cement Circulated*
Address: 1014 1/2 N 10th St
Tool Pusher Larry Langhoffer
Operator Dave Funk 624 77
Basket on P.P.A. cent on 1,3,5,7, 077

15-163-23201-00-00

8/24/92

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

2042

65115
New

Date	5-7-92	Sec	32	Twp	8-2	Range	19-0	Called Out	3:00 P.M.	On Location	5:30 P.M.	Job Start	7:00 P.M.	Finish	7:30 P.M.	
Lease	Amman	Well No.	1	Location				Zurich 5 1/2 N 3/4 W	County	Rooks	State	Ks.				
Contractor	Emphasis Oil Operations Rig #6							Owner	Same							
Type Job	Set Surface Pipe															
Hole Size	12 1/2"		T.D.	265'												
Csg.	8 3/4"		Depth	262'												
Tbg. Size			Depth	205'												
Drill Pipe			Depth													
Tool			Depth													
Cement Left in Csg.	15'		Shoe Joint													
Press Max.			Minimum													
Meas Line	X		Displace	X												
Perf.																

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.

Charge To *Decab Company*
 Street *Box 609*
 City *Hays* State *Ks.* *67601*

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
X Gary Zangl
CEMENT

EQUIPMENT

Pumptrk	No.	Cementer	<i>Gary H. Wayne Mo</i>
	<i>191</i>	Helper	
Pumptrk	No.	Cementer	<i>Joe S.</i>
		Helper	
		Driver	
Bulktrk	<i>4212</i>	Driver	

Amount Ordered *150 sks 60% for 2 bag, 3 bag*

Consisting of
 Common
 For Mix
 Gel
 Chloride
 Quickset

Handling *2.00/sk*

Mileage *2.4 + 1sk/mi*

DEPTH of Job

Reference	<i>#1 Pumptruck - surface</i>	<i>380.00</i>
	<i>#12 mileage @ 2.00/mi</i>	
	<i>1x 8 3/4" wooden plug</i>	
	Sub Total	
	Tax	
	Total	

Sub Total
 Total

Floating Equipment
Thanks

Remarks: *Cement Circulated*

RECEIVED
 STATE CORPORATION COMMISSION

AUG 2 6 1992

CONSERVATION DIVISION
 WINNIE, KANSAS

15-1103-23201-00-00

8/24/92

Russell, Kansas
 861, Great Bend, Kansas

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31
 Russell, Kansas 67665

2296

New

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
5-22-92							1:30PM
Case	Well No.	Location			County	State	
Amrein	1	Zurich S2N 3W			Rooks	KS	

Contractor *Leas Cable Tools*

Type Job *Squeez*

Cole Size T.D.

sg. *52* Depth

bg. Size *2"* Depth

Drill Pipe Depth

Pool *Brook Oil* Depth *3410*

Cement Left in Csg. Shoe Joint

Press Max. Minimum

Meas Line Displace

Owner

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To *Dekab*

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. *3*

Harley Sand

3 1/2 cement CEMENT

Amount Ordered *100.00*

Consists of *used 35*

Common

Poz. Mix

Gel.

Chloride

Quickset

EQUIPMENT

Pumptrk	No. <i>153</i>	Cementer <i>Arvin</i>	
		Helper <i>Dave</i>	
Pumptrk	No.	Cementer <i>Jerald</i>	
		Helper	
Bulktrk	<i>160</i>	Driver <i>Paul</i>	
Bulktrk		Driver	

Sales Tax

Handling

Mileage

Sub Total

Total

DEPTH of Job

Reference: *Dump. tok chg*
20" Per inch

Sub Total

Tax

Total

Floating Equipment

Remarks: *Injection Rate = 3881 @ 1200 PSI*
used 15 shaft cement followed by 20 shaft
Spurred @ 2500 PSI, washed out 20-25'
tested @ 300 psi & held

TOTAL *REVD*
8/24/92

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

15-163-23201-0-00

Well Name AMREIN #1 Test No. 1 Date 5/11/92
Company DECAB COMPANY Zone LKC-"A-B-C"
Address BOX 609 HAYS KANSAS 67601 Elevation 1996
Co. Rep./Geo. RON NELSON Cont. EMPHASIS RIG #6 Est. Ft. of Pay 7
Location: Sec. 33 Twp. 8S Rge. 19W Co. ROOKS State KS

Interval Tested 3178-3240 Drill Pipe Size 4.5 XH
Anchor Length 62 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3173 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3178 Mud Wt. _____ 9 lb/Gal.
Total Depth 3240 Viscosity 41 Filtrate 10.4

Tool Open @ 9:05 AM Initial Blow WEAK-BUILDING TO STRONG - OFF BOTTOM OF BUCKET
IN 11 MINUTES
Final Blow WEAK-BUILDING TO STRONG-OFF BOTTOM OF BUCKET
IN 23 MINUTES

Recovery - Total Feet 332 Flush Tool? NO

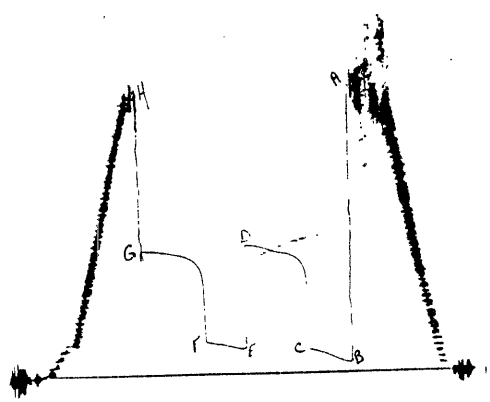
Rec. 154 Feet of GAS IN PIPE
Rec. 30 Feet of CLEAN OIL
Rec. 120 Feet of OIL CUT MUD-40%OIL/60%MUD
Rec. 62 Feet of SLTLY OIL CUT MUD-5%OIL/95%MUD
Rec. 120 Feet of MUDDY WATER-95%WTR/5%MUD

BHT 108 °F Gravity _____ °API @ _____ °F Corrected Gravity 40 °API
RW 0.06 @ 86 °F Chlorides 36000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 1643.9 PSI AK1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure 62.0 PSI @ (depth) 3182 w / Clock No. 8179
(C) First Final Flow Pressure 117.1 PSI AK1 Recorder No. 7437 Range 4200
(D) Initial Shut-in Pressure 715.4 PSI @ (depth) 3236 w / Clock No. 31152
(E) Second Initial Flow Pressure 144.6 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 181.1 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 702.5 PSI Initial Opening 30 Final Flow 30
(H) Final Hydrostatic Mud 1587.9 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative DAN BANGLE

7437#1



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1686	1643.9
(B) FIRST INITIAL FLOW PRESSURE	78	62
(C) FIRST FINAL FLOW PRESSURE	118	117.1
(D) INITIAL CLOSED-IN PRESSURE	719	715.4
(E) SECOND INITIAL FLOW PRESSURE	147	144.6
(F) SECOND FINAL FLOW PRESSURE	187	181.1
(G) FINAL CLOSED-IN PRESSURE	709	702.5
(H) FINAL HYDROSTATIC MUD	1586	1587.9

15-163-23201-00-00

ORIGINAL

COMPUTER EVALUATION BY TRILOBITE TESTING, L.L.C.

DECAB COMPANY AMREIN #1 DST 1
33 8S 19W ROOKS KS

ELEVATION: 1996 KB EST. PAY 7 FT
DATUM: -3183 ZONE TESTED: LKC-"A-B-C"
TEST INTERVAL: 3178-3240 TIME INTERVALS: 30-45-30-45
RECORDER DEPTH: 3182 VISCOSITY: 5.224 CP
BOTTOM HOLE TEMP: 108 HOLE SIZE: 7.875 IN

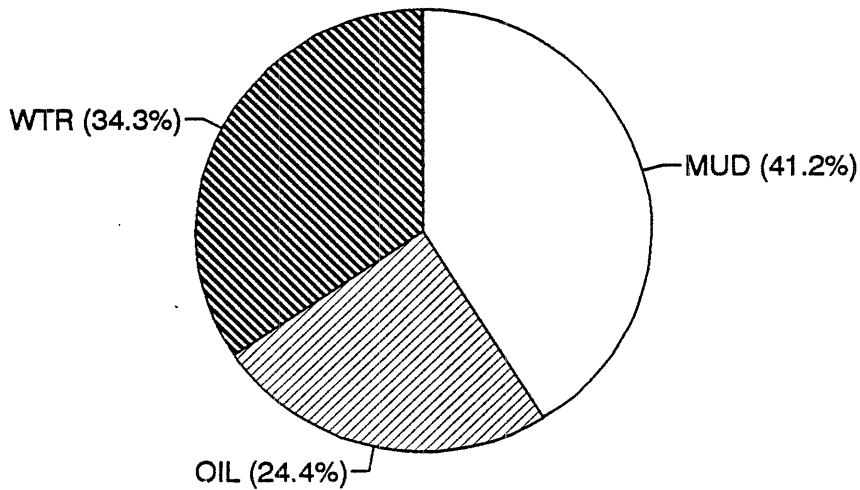
CUBIC FEET OF GAS IN PIPE: 12.30
TOTAL FEET OF RECOVERY: 332.00 CORRECTED PIPE FILLUP: 507.283
TOTAL BARRELS OF RECOVERY: 4.72 CORR. BARRELS OF RECOVERY: 7.210 BBL
BARRELS IN DRILL PIPE: 4.72 API GRAVITY: 40
BARRELS IN WEIGHT PIPE: 0.00 FLUID GRADIENT: 0.357
BARRELS IN DRILL COLLARS: 0.00
GAS OIL RATIO: 2.6044 CU.FT/BBL
BUBBLE POINT PRESSURE: 23.241
UNCORRECTED INITIAL PRODUCTION: 113.30 BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 173.03 BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE: 38.776

INITIAL SLOPE 224.80 PSI/CYCLE FINAL SLOPE 163.09 PSI/CYCLE
INITIAL P* 765 PSI FINAL P* 763 PSI

TRANSMISSIBILITY 172.51 (MD.-FT./CP.)
PERMEABILITY 128.75 (MD.)
INDICATED FLOW CAPACITY 901.23)MD.FT)
PRODUCTIVITY INDEX 0.19 (BARRELS/DAY/PSI)
DAMAGE RATIO 0.65
RADIUS OF INVESTIGATION 87.89 (FT,)
POTENTIOMETRIC SURFACE -1413.73 (FT.)
DRAWDOWN FACTOR 0.361 (%)

DST #	CALCULATED RECOVERY ANALYSIS					DRILL	PIPE		
	1	TICKET					4764		
SAMPLE #	TOTAL FEET	GAS %	OIL FEET	OIL %	WATER FEET	WATER %	MUD %	FEET	
1	30	0	0	100	30	0	0	0	0
2	120	0	0	40	48	0	0	60	72
3	62	0	0	5	3.1	0	0	95	58.9
4	120	0	0	0	0	95	114	5	6
5			0		0		0		0
TOTAL	332	0	0	24.4	81.1	34.337349	114	41.2	136.9

	HRS	BBL/DAY
BBL OIL=	1.153242	* 1 27.678
BBL WATER=	1.62108	* 38.906
BBL MUD=	1.946718	
BBL GAS	0	



15-163-23201-02-00

ORIGINAL

INITIAL FLOW

RECORDER 13754 DST # 1

TIME(MIN) PRESSURE <> PRESSURE

TIME(MIN)	PRESSURE	<> PRESSURE
0	62	62
3	64.9	2.9
6	68.9	4
9	74.8	5.9
12	81.6	6.8
15	87.6	6
18	93.5	5.9
21	100.3	6.8
24	108.2	7.9
27	111.2	3
30	117.1	5.9

FINAL FLOW

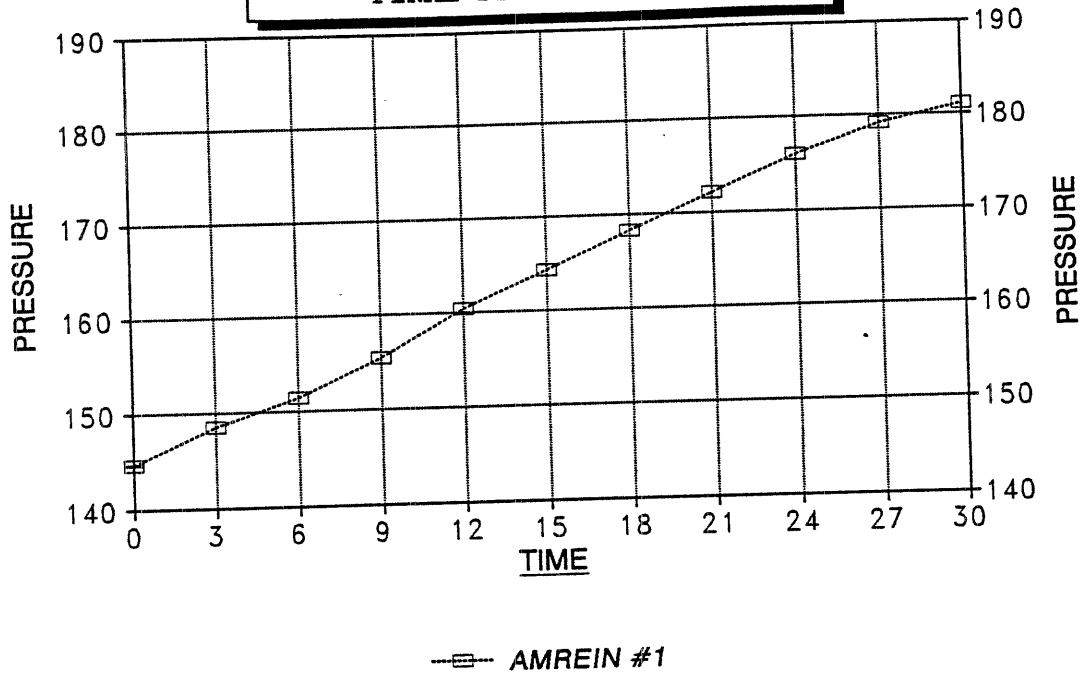
RECORDER # 13754 DST # 1

TIME(MIN) PRESSURE <> PRESSURE

TIME(MIN)	PRESSURE	<> PRESSURE
0	144.6	144.6
3	148.6	4
6	151.5	2.9
9	155.5	4
12	160.4	4.9
15	164.3	3.9
18	168.3	4
21	172.2	3.9
24	176	3.8
27	179.1	3.1
30	181.1	2

DELTA T DELTA P

FINAL FLOW - DST #1



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

38.776

AMREIN #1
INITIAL

DST #1
SHUTIN
30 FLOW TIME

15-163-23201-00-00

ORIGINAL

Slope 224.80 psi/cycle
P * 765 psi

Log <>

	Pws (psi)	Horn T	PRESSURE	Horn T
	539.5	1.041	539.5	11
	616.5	0.778	77.0	6
	642.2	0.637	25.7	4
	655.1	0.544	12.9	4
	664.0	0.477	8.9	3
	671.9	0.426	7.9	3
	680.8	0.385	8.9	2
	686.7	0.352	5.9	2
	691.6	0.325	4.9	2
X	697.6	0.301	6.0	2
	701.5	0.281	3.9	2
	705.5	0.263	4.0	2
	709.4	0.248	3.9	2
	713.4	0.234	4.0	2
X	715.4	0.222	2.0	2

AMREIN #1
FINAL

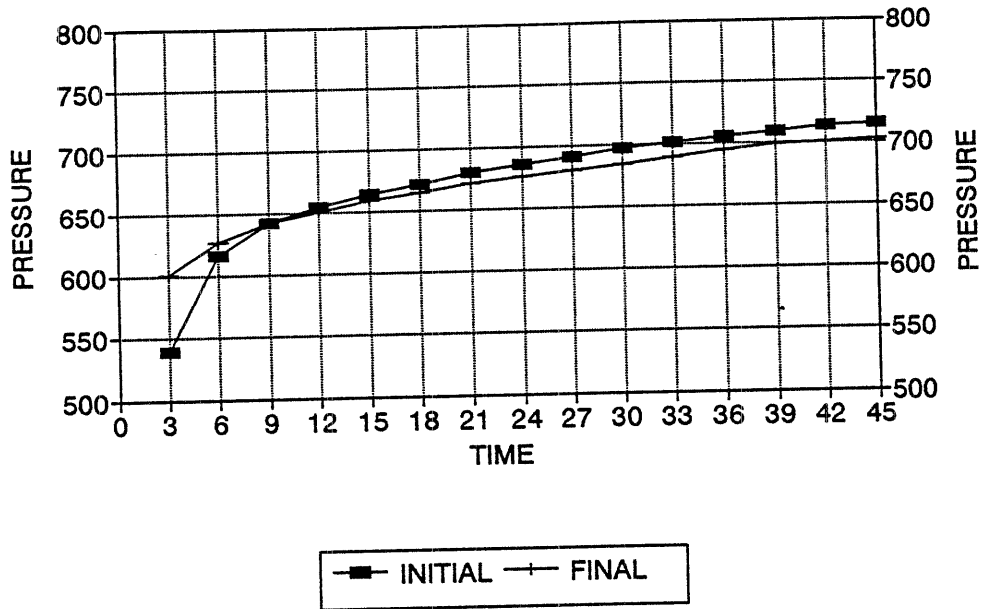
DST #1
SHUTIN
60 TOTAL FLOW TIME

Slope 163.09 psi/cycle
P * 763 psi

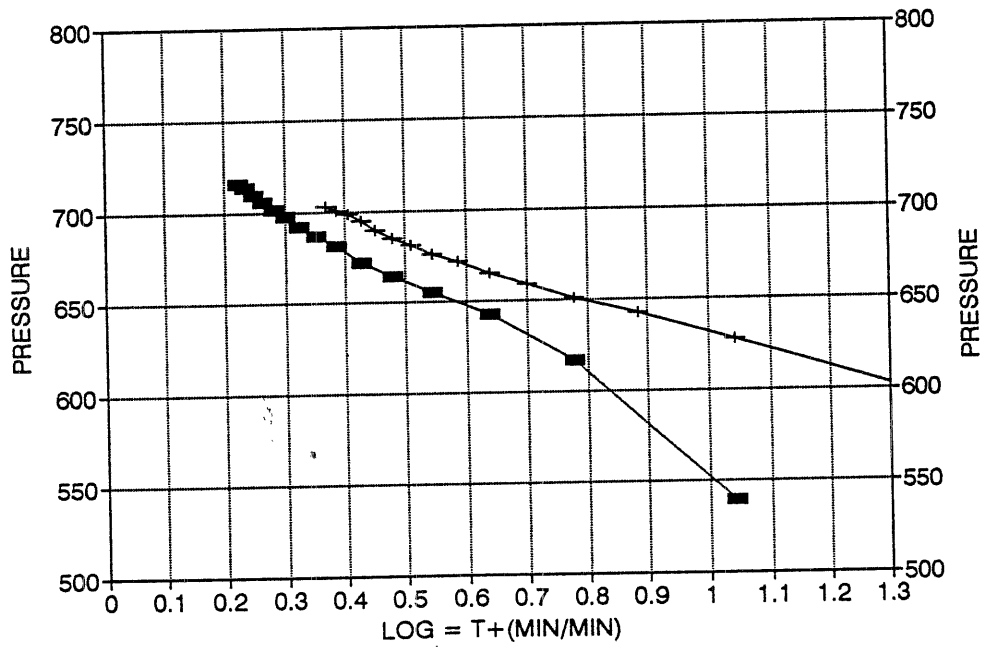
Log <>

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
3	600.7	1.322	600.7	21
6	627.4	1.041	26.7	11
9	642.2	0.885	14.8	8
12	651.1	0.778	8.9	6
15	659.0	0.699	7.9	5
18	665.0	0.637	6.0	4
21	671.9	0.586	6.9	4
24	675.8	0.544	3.9	4
27	680.8	0.508	5.0	3
X	684.7	0.477	3.9	3
	689.7	0.450	5.0	3
	694.6	0.426	4.9	3
	698.6	0.405	4.0	3
	700.5	0.385	1.9	2
X	702.5	0.368	2.0	2

AMREIN #1 / DST #1 DELTA T DELTA P



HORNER PLOT



15163-23201-00-00

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

No 4764

Well Name & No. <u>Amrein #1</u>	Test No. <u>1</u>	Date <u>5-11-92</u>
Company <u>Decab Co.</u>	Zone Tested <u>A=C</u>	<u>h.k.c.</u>
Address <u>Box 609, Hays, Ks 67601</u>	Elevation <u>1996</u>	<u>K.B</u>
Co. Rep./Geo. <u>Ron Nelson</u>	Cont. <u>Emphasis #6</u>	Est. Ft. of Pay <u>7</u>
Location: Sec. <u>33</u>	Twp. <u>8</u>	Rge. <u>19</u>
	Co. <u>Rooks</u>	State <u>Ks.</u>
No. of Copies <u>2</u>	Distribution Sheet <u>Yes X No</u>	Turnkey <u>Yes X No X</u>
		Evaluation <u>X</u>

Interval Tested <u>3178-3240</u>	Drill Pipe Size <u>4.5 X 14</u>
Anchor Length <u>62</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3173</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3178</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3240</u>	Drill Collar — 2.25 Ft. Run _____

Mud Wt. 9 lb/gal. Viscosity 41 Filtrate 10.4

Tool Open @ 9:05 A.M. Initial Blow Weak - building to strong - off bottom of bucket in 11 min.

Final Blow Weak - building to strong - off bottom of bucket in 23 min.

Recovery — Total Feet 332 Feet of Gas in Pipe 154 Flush Tool? _____

Rec.	Feet Of	% gas	% oil	% water	% mud
<u>30</u>	<u>C-O</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>120</u>	<u>O.C.M</u>	<u>40</u>	<u>0</u>	<u>60</u>	<u>0</u>
<u>62</u>	<u>5 1/4 O.C.M</u>	<u>5</u>	<u>0</u>	<u>95</u>	<u>0</u>
<u>120</u>	<u>mdy wt.</u>	<u>0</u>	<u>0</u>	<u>95</u>	<u>0</u>
_____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____

BHT 108 °F Gravity _____ °API @ _____ °F Corrected Gravity 40 °API

RW 106 @ 86 °F Chlorides 36,000 ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud <u>1686</u> PSI	AK1 Recorder No. <u>13754</u>	Range <u>4000</u>
(B) First Initial Flow Pressure <u>78</u> PSI	@ (depth) <u>3182</u>	w/Clock No. <u>8179</u>
(C) First Final Flow Pressure <u>118</u> PSI	AK1 Recorder No. <u>7437</u>	Range <u>4200</u>
(D) Initial Shut-in Pressure <u>719</u> PSI	@ (depth) <u>3236</u>	w/Clock No. <u>3115-2</u>
(E) Second Initial Flow Pressure <u>147</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>187</u> PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-in Pressure <u>709</u> PSI	Initial Opening <u>30</u>	Test <u>550.00</u>
(H) Final Hydrostatic Mud <u>1586</u> PSI	Initial Shut-in <u>45</u>	Jars _____

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Final Flow 30 Safety Joint _____

Final Shut-in 45 Straddle _____

Circ. Sub _____

Sampler _____

Extra Packer _____

Other substitution

Approved By Tom Younger

Our Representative Dan

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name AMREIN #1 Test No. 2 Date 5/11/92
Company DECAB COMPANY Zone LKC-"E-F-G"
Address BOX 609 HAYS KANSAS 67601 Elevation 1996
Co. Rep./Geo. RON NELSON Cont. EMPHASIS RIG #6 Est. Ft. of Pay _____
Location: Sec. 33 Twp. 8S Rge. 19W Co. ROOKS State KS

Interval Tested 3251-3300 Drill Pipe Size 4.5 XH
Anchor Length 49 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3246 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3251 Mud Wt. 9.2 lb/Gal.
Total Depth 3300 Viscosity 43 Filtrate 10.4

Tool Open @ 11:07 PM Initial Blow WEAK - BUILDING TO 6" FAIR BLOW

Final Blow WEAK-BUILDING TO 2"

Recovery - Total Feet 150 Flush Tool? NO

Rec. 5 Feet of CLEAN OIL
Rec. 145 Feet of MUDDY WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.04 @ 85 °F Chlorides 32000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 1704.5 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 62.3 PSI @ (depth) 3255 w / Clock No. 8179

(C) First Final Flow Pressure 85.6 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 734.9 PSI @ (depth) 3296 w / Clock No. 31152

(E) Second Initial Flow Pressure 94.5 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 102.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 684.5 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 1620.4 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative DAN BANGLE

15-163-23201-0000
TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4765

Well Name & No. <u>Amrein #1</u>	Test No. <u>2</u>	Date <u>5-11-92</u>
Company <u>Decab Co.</u>	Zone Tested <u>E-F-G</u>	<u>L.K.C.</u>
Address _____	Elevation <u>1996 K.B.</u>	
Co. Rep./Geo. <u>Ron Nelson</u>	Cont. <u>Emphasis #6</u>	Est. Ft. of Pay _____
Location: Sec. <u>33</u>	Twp. <u>8</u>	Rge. <u>19</u>
	Co. <u>Rooks</u>	State <u>Ks.</u>
No. of Copies <u>2</u>	Distribution Sheet _____	Yes _____ No _____ Evaluation _____

Interval Tested <u>3251 - 3300</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>49</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3246</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3251</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3300</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>43</u> Filtrate <u>10.4</u>
Tool Open @ <u>11:07 P.M.</u> Initial Blow <u>Weak-building to 6" fair blow</u>	

Final Blow Weak-building to 2"

Recovery — Total Feet <u>150.</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>5</u> Feet Of <u>C.O.</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>145</u> Feet Of <u>mdy wtr.</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 _____	

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity 38 °API
 RW .04 @ 85 °F Chlorides 32,000 ppm Recovery Chlorides 3,000 ppm System

- (A) Initial Hydrostatic Mud 1696 PSI Ak1 Recorder No. 13754 Range 4000
- (B) First Initial Flow Pressure 59 PSI @ (depth) 3255 w/Clock No. 8179
- (C) First Final Flow Pressure 78 PSI AK1 Recorder No. 7437 Range 4200
- (D) Initial Shut-In Pressure 729 PSI @ (depth) 3296 w/Clock No. 31152
- (E) Second Initial Flow Pressure 88 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 98 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 679 PSI Initial Opening 45 Test _____
- (H) Final Hydrostatic Mud 1616 PSI Initial Shut-In 45 Jars _____

Final Flow 45 Safety Joint _____
 Final Shut-In 45 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____

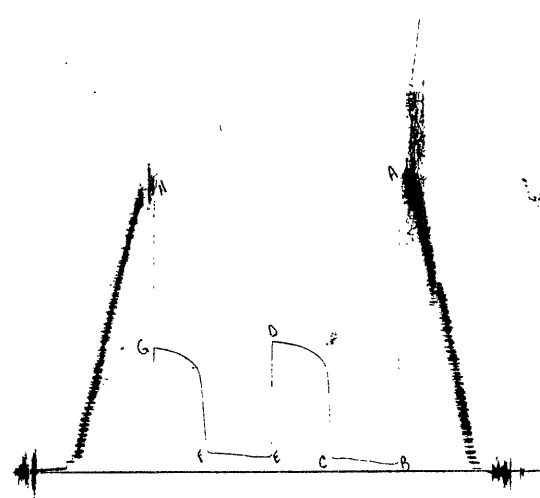
Approved By _____
 Our Representative Don

TOTAL PRICE \$ 500.00

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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.

ORIGINAL

74/37 #12



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	1696	1704.5
(B) FIRST INITIAL FLOW PRESSURE	59	62.3
(C) FIRST FINAL FLOW PRESSURE	78	85.6
(D) INITIAL CLOSED-IN PRESSURE	729	734.9
(E) SECOND INITIAL FLOW PRESSURE	88	94.5
(F) SECOND FINAL FLOW PRESSURE	98	102.3
(G) FINAL CLOSED-IN PRESSURE	679	684.5
(H) FINAL HYDROSTATIC MUD	1616	1620.4

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

15-163-23201-00-00

Well Name AMREIN #1 Test No. 5/12/92
Company DECAB COMPANY Zone LKC-"I-J"
Address BOX 609 HAYS KANSAS 67601 Elevation 1996
Co. Rep./Geo. RON NELSON Cont. EMPHASIS RIG #6 Est. Ft. of Pay _____
Location: Sec. 33 Twp. 8S Rge. 19W Co. ROOKS State KS

Interval Tested 3330-3370 Drill Pipe Size 4.5 XH
Anchor Length 40 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3325 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3330 Mud Wt. 9 lb/Gal.
Total Depth 3370 Viscosity 49 Filtrate 8

Tool Open @ 1:34 PM Initial Blow WEAK-BUILDING TO STRONG-BOTTOM OF BUCKET IN 12
MINUTES
Final Blow WEAK-BUILDING TO 8" FAIR BLOW

Recovery - Total Feet 392 Flush Tool? NO

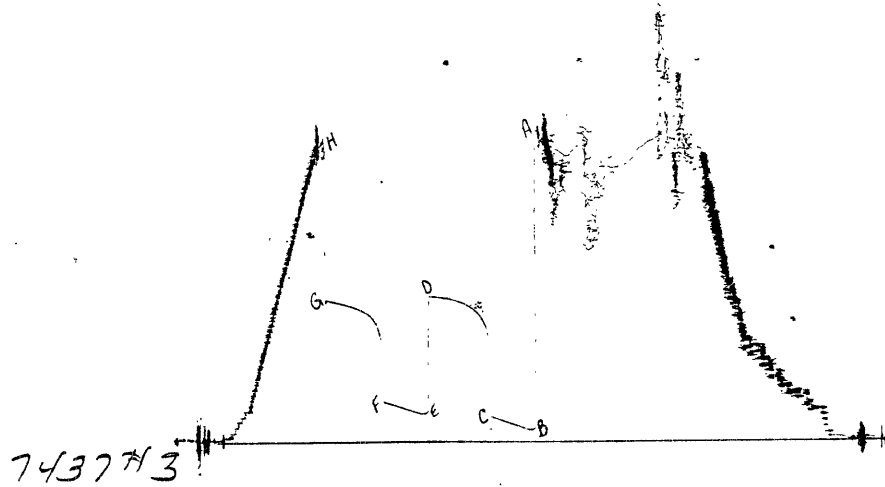
Rec. 2 Feet of CLEAN OIL
Rec. 390 Feet of WATER
Rec. _____ Feet of 0
Rec. _____ Feet of _____
Rec. _____ Feet of 0

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.06 @ 86 °F Chlorides 38000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 1705.6 PSI AK1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure 22.5 PSI @ (depth) 3334 w / Clock No. 8179
(C) First Final Flow Pressure 94.5 PSI AK1 Recorder No. 7437 Range 4200
(D) Initial Shut-in Pressure 771.2 PSI @ (depth) 3366 w / Clock No. 31152
(E) Second Initial Flow Pressure 115.6 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 184.9 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 755.2 PSI Initial Opening 30 Final Flow 30
(H) Final Hydrostatic Mud 1640.9 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1696	1705.6
(B) FIRST INITIAL FLOW PRESSURE	19	22.5
(C) FIRST FINAL FLOW PRESSURE	88	94.5
(D) INITIAL CLOSED-IN PRESSURE	768	771.2
(E) SECOND INITIAL FLOW PRESSURE	108	115.6
(F) SECOND FINAL FLOW PRESSURE	177	184.9
(G) FINAL CLOSED-IN PRESSURE	749	755.2
(H) FINAL HYDROSTATIC MUD	1636	1640.9

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-163-23201-00-00

Test Ticket

ORIGINAL
No 4766

Well Name & No. Amrein #1 Test No. 3 Date 5-12-92
 Company Decab Co. Zone Tested J-I L.K.C.
 Address _____ Elevation 1996 K.B.
 Co. Rep./Geo. Ron Nelson Cont. Emphasis #6 Est. Ft. of Pay _____
 Location: Sec. 33 Twp. 8 Rge. 19 Co. Rocks State Ks
 No. of Copies 2 Distribution Sheet Yes No Turnkey Yes No Evaluation

Interval Tested 3330 - 3370 Drill Pipe Size 4.5 x 14
 Anchor Length 40 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3325 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3330 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 3370 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9 lb/gal. Viscosity 49 Filtrate 8
 Tool Open @ 1:34 PM. Initial Blow Weak - building to strong - B.O.B
in 12 min.
 Final Blow Weak - building to 8" fair blow

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?	% gas	% oil	% water	% mud
Rec. <u>2</u> Feet Of <u>C.O.</u>						
Rec. <u>390</u> Feet Of <u>WTR.</u>						
Rec. _____ Feet Of _____						
Rec. _____ Feet Of _____						
Rec. _____ Feet Of _____						

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .06 @ 86 °F Chlorides 38,000 ppm Recovery Chlorides 5000 ppm System
 (A) Initial Hydrostatic Mud 1696 PSI AK1 Recorder No. 13754 Range 4000
 (B) First Initial Flow Pressure 19 PSI @ (depth) 3334 w/Clock No. 8179
 (C) First Final Flow Pressure 88 PSI AK1 Recorder No. 7437 Range 4200
 (D) Initial Shut-in Pressure 768 PSI @ (depth) 3366 w/Clock No. 31152
 (E) Second Initial Flow Pressure 108 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 127 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 749 PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud 1636 PSI Initial Shut-in 45 Jars _____

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Final Flow 30 Safety Joint _____
 Final Shut-in 45 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

Approved By _____
 Our Representative [Signature]

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name AMREIN #1 Test No. 4 Date 5/13/92
Company DECAB COMPANY Zone ARBUCKLE
Address BOX 609 HAYS KANSAS 67601 Elevation 1996
Co. Rep./Geo. RON NELSON Cont. EMPHASIS RIG #6 Est. Ft. of Pay _____
Location: Sec. 33 Twp. 8S Rge. 19W Co. ROOKS State KS

Interval Tested 3429-3436 Drill Pipe Size 4.5 XH
Anchor Length 7 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3424 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3429 Mud Wt. 9 lb/Gal.
Total Depth 3436 Viscosity 49 Filtrate 8

Tool Open @ 3:13 AM Initial Blow STRONG-BOTTOM OF BUCKET IN 30 SECONDS

Final Blow STRONG - BOTTOM OF BUCKET IN 15 SECONDS

Recovery - Total Feet 2480 Flush Tool? NO

Rec. 120 Feet of GAS IN PIPE
Rec. 1240 Feet of OIL & MUD CUT WTR-25%OIL/40%WTR/35%MUD
Rec. 310 Feet of OIL & SLTLY MUD CUT WTR-20%OIL/75%WTR/5%MUD
Rec. 620 Feet of SLTLY OIL CUT WTR-5%OIL/95%WTR
Rec. 310 Feet of WATER

BHT 114 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.07 @ 82 °F Chlorides 28000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 1833.7 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 336.9 PSI @ (depth) 3420 w / Clock No. 8179

(C) First Final Flow Pressure 921.4 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1117.8 PSI @ (depth) 3432 w / Clock No. 31152

(E) Second Initial Flow Pressure 997.6 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 1116.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1116.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1760.2 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket 15-163-2320^N-00-4767

Well Name & No. <u>Amcein #1</u>	Test No. <u>4</u>	Date <u>5-13-92</u>
Company <u>Decab Co.</u>	Zone Tested <u>Arbuckle</u>	
Address _____	Elevation <u>1996 K.A</u>	
Co. Rep./Geo. <u>Ron Nelson</u>	Cont. <u>Emphasis #6</u>	Est. Ft. of Pay _____
Location: Sec. <u>33</u> Twp. <u>8</u> Rge. <u>19</u> Co. <u>Reeks</u> State <u>Ks</u>		
No. of Copies <u>2</u> Distribution Sheet _____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Turnkey _____ Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Evaluation _____

Interval Tested <u>3429 - 3436</u>	Drill Pipe Size <u>4.5 X 11</u>
Anchor Length <u>7</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3424</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3429</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3436</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9</u> lb/gal.	Viscosity <u>49</u> Filtrate <u>8</u>
Tool Open @ <u>3:13 P.M.</u> Initial Blow <u>Strong - B.O.B. in 30 sec.</u>	

Final Blow Strong - B.O.B. in 15 sec.

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>1240</u> Feet Of <u>0+MC WTR.</u>	<u>120</u>	
Rec. <u>310</u> Feet Of <u>0+Silly MC WTR</u>		%gas <u>25</u> %oil <u>40</u> %water <u>35</u> %mud
Rec. <u>620</u> Feet Of <u>Silly O.C WTR.</u>		%gas <u>20</u> %oil <u>75</u> %water <u>5</u> %mud
Rec. <u>310</u> Feet Of <u>WTR</u>		%gas <u>5</u> %oil <u>95</u> %water _____%mud
Rec. _____ Feet Of _____		%gas _____%oil <u>100</u> %water _____%mud
Rec. _____ Feet Of _____		%gas _____%oil _____%water _____%mud

BHT 114 °F Gravity _____ °API @ _____ °F Corrected Gravity 38 °API
 RW .07 @ 82 °F Chlorides 28,000 ppm Recovery Chlorides 5000 ppm System

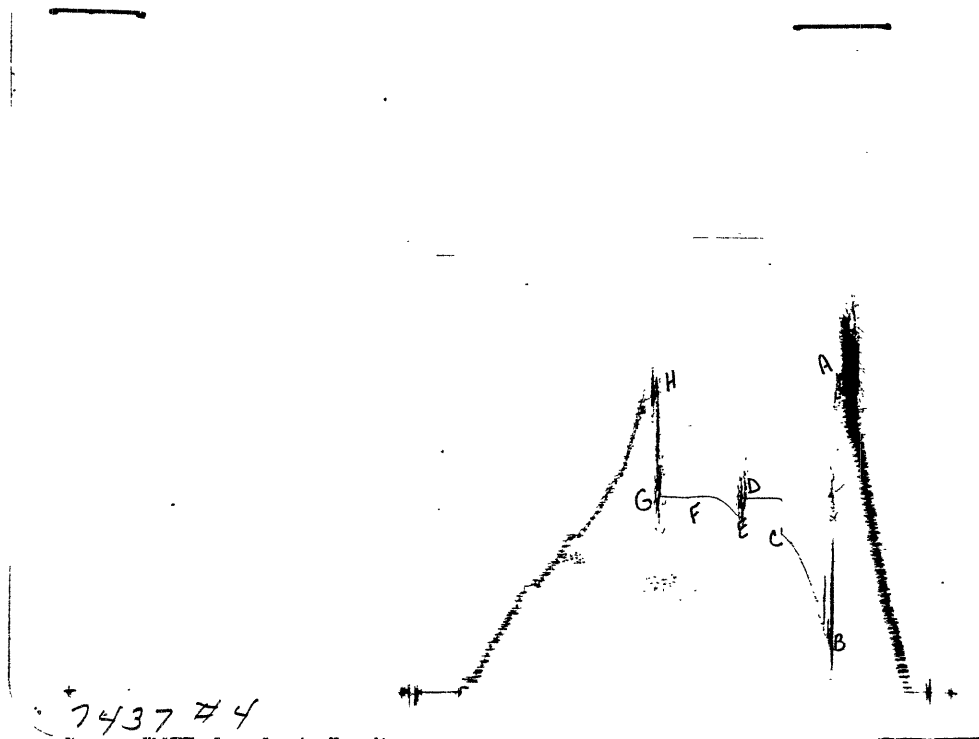
- (A) Initial Hydrostatic Mud 1820 PSI Ak1 Recorder No. 13754 Range 4000
- (B) First Initial Flow Pressure 330 PSI @ (depth) 3420 w/Clock No. 8179
- (C) First Final Flow Pressure 915 PSI AK1 Recorder No. 7437 Range 4200
- (D) Initial Shut-In Pressure 1104 PSI @ (depth) 3432 w/Clock No. 31152
- (E) Second Initial Flow Pressure 999 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 1114 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 1114 PSI Initial Opening 30 Test _____
- (H) Final Hydrostatic Mud 1757 PSI Initial Shut-In 30 Jars _____

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Approved By _____
 Our Representative [Signature]
 Printcraft Printers - Hays, KS

Final Flow 30 Safety Joint _____
 Final Shut-In 30 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1820	1833.7
(B) FIRST INITIAL FLOW PRESSURE	330	336.9
(C) FIRST FINAL FLOW PRESSURE	915	921.4
(D) INITIAL CLOSED-IN PRESSURE	1104	1117.8
(E) SECOND INITIAL FLOW PRESSURE	999	997.6
(F) SECOND FINAL FLOW PRESSURE	1114	1116.9
(G) FINAL CLOSED-IN PRESSURE	1114	1116.9
(H) FINAL HYDROSTATIC MUD	1757	1760.2

15-163-23201-00-00

5/20/92

Rig up Cable tool rig. Mercury wireline Co. ran Sonic cement bond log. Found very poor bond around casing shoe, also lite cement had settled back to 800'. (from Surface) Swab Casing dry to 3300', start drilling cement and cleaning out casing. Cleaned out to 3445 in basket shoe.

← 8 5/8" Surf. Csg. @ 262'
Cement circulated.

5/21/92

Finish drilling thru basket shoe, had 5' hole below shoe. Hole filled to 900' from surface with water, only slight rainbow show of oil. Swab test 70 BF/H from 1100' from surface. Mercury wireline Co. Rerun Sonic Bond Log to bottom to confirm poor cement around shoe joint. Cement job gave way after cementing casing. (No bonding from 3410 to 3438). Drilled 1 Ft. of new hole to pick up bottom sample. (Shale and Dolomite)

← 825' Top good cement.

5/22/92

Ran tubing and packer, set @ 3420' and cement open hole with 35 Sx 60/40 Poz. Had to stage, Arbuckle took cement on strong vacuum. Squeeze to 2500#, wash out to 3436'. Shut down over week end.

5/26/92

Drill out squeeze job. Drilled to 3445' before water broke in again. Swab test 30 BF/H from 2500' very slight show of oil. Mercury Wireline set CI bridge plug @ 3410' Swab down dry, Perf. 8 Shts. 3359 To 3361' good show of oil natural. one hour test 1 1/2 barrel of oil.

5/27/92

80' of oil in hole over night, SERFCO treat with 500 Gal. 15% Non-E acid. 400# Max. pressure. Recover load and test 7 B/F per Hr. 20% oil. 4 Hour test declined to 6 B/F 13% oil. 5th Hr. 6 B/F 8% oil.

← PF. 2 Shts. @ 3193' 'A'

← PF. 2 Shts. @ 3229' 'C'

← PF. 2 Shts. @ 3267' 'E'

5/28/92

Over night had 1450' water less than 3% oil. Perf. 2 Shts. @ 3193, 2 Shts @ 3229' and 2 Shts @ 3267' Set Retrievable BP @ 3280' Treat with 1500 Gal 15% Non-E acid all zones together limited entry using Perf ball sealers, good pressure changes when sealers lodged. Recovered load and test 1st Hr. 11 B/F 18% oil, fluid declined 4 th Hr. 8 1/2 B/F 16% oil.

← PF. 8 Shts. @ 3359-61' 'J'

5/29/92

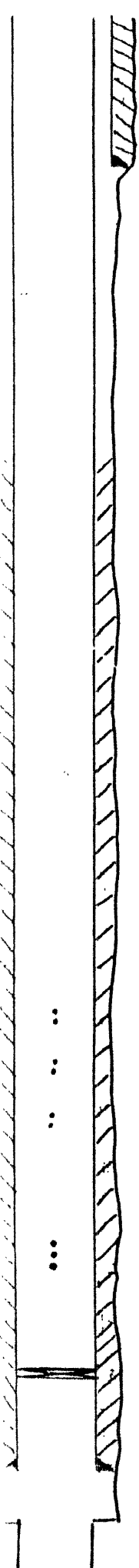
Found 1400' fluid in hole over night with 150' oil on top. Pulled retrievable BP and rigged down cable tools, will set pumping unit to test further.

← Cast Iron BP @3410'

← 5 1/2" Used casing (375 Sx) set @ 3438' Cement circulated

← Rotary TD 3446'

← Cable Tool TD 3448'



15-163-23201-00-00

RON NELSON

CONSULTING PETROLEUM GEOLOGIST
 212 EAST 5th ST.
 HAYS, KANSAS 67601
 PHONE: 913-628-3449

**GEOLOGIC
 REPORT
 LOG**

COMPANY DECAB CO.
15-051-24820

WELL AMREIN #1

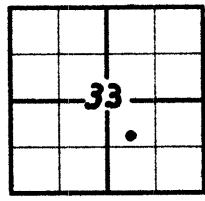
FIELD WEBSTER

LOCATION S/2 - NW - SE

SEC. 33 TWP. 85 RGE. 19w

COUNTY ROOKS

STATE KANSAS



PRODUCTION LKC - ARB

ELEVATION KB 1996'
 DF _____
 GL 1991'

Drilling Measured From: KB

Samples Saved From 2900 To: TD

Drilling Time From 2800 To: TD

Samples Examined From: 2900 To: TD

Geological Supervision From 2900 To Total Depth

Wellsite Geologist RON NELSON

Electrical Surveys MERCURY
WIRELING - RAG

FEB 17

OPERATOR Decab Co.

CONTRACTOR EMPHASIS Rig 6

COMM: 5-7-92 COMP: _____

CASING RECORD

SURF: 8 5/8" @ 262' PROD: 5 1/2" @ 3438'

TOTAL DEPTH DRILLERS: 3446'

TOTAL DEPTH LOG 3447'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	CONSTRUCTION ELECTRIC LOG TOP, Kansas	SUB-SEA DATUM	STRUCTURAL POSITION
TOP ANHYDRITE	1414'	1411	+525	-3
BASE ANHYDRITE	1453'	1449	+546	-3
TOPEKA	2940'	2941'	-945	NA
HEEBNER	3146'	3147	-1150	-7
TORONTO	3173'	3175	-1178	NA
LKC	3188'	3192	-1194	-12
BKC	3391'	3393	-1397	NA
ARBUCKLE	3428'	3428	-1432	-3

REFERENCE WELL FOR STRUCTURE #2 FIDELIS NE-SW-SE
33-8-19