



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company Kan-Ex, Inc.

Lease & Well No.

Echardt #1

Elevation ---- Formation Indian Cave Effective Pay - Ft. Ticket No. 14882

Date 6/9/81 Sec. 8 Twp. 32S Range 10W County Barber State Kansas

Test Approved by Mark B. M--- Western Representative Les Holtz

Formation Test No. 1 Interval Tested from 2510 ft. to 2598 ft. Total Depth 2598 ft.

Packer Depth 2505 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2510 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2529 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 2532 ft. Recorder Number 13267 Cap. 4050

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Eagle Drilling Drill Collar Length 555 I. D. 2.26 in.

Mud Type fresh gel Viscosity 35 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss - cc. Drill Pipe Length 1924 I. D. 3.8 in.

Chlorides 75,000 P.P.M. Test Tool Length 31 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 410 Anchor Length 88 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 77/8 in. Tool Joint Size 4 1/2 in.

Blow: Strong throughout test.

Recovered 2040 ft. of salt water Chlorides 150,000 ppm

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks:

Slid four feet to bottom.

Time Set Packer(s) 5:20 ~~AM~~ P.M. Time Started Off Bottom 9:05 ~~AM~~ P.M. Maximum Temperature 118°

Initial Hydrostatic Pressure 1239 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 442 P.S.I. to (C) 879 P.S.I.

Initial Closed In Period 60 Minutes (D) 1049 P.S.I.

Final Flow Period 45 Minutes (E) 989 P.S.I. to (F) 1036 P.S.I.

Final Closed In Period 87 Minutes (G) 1046 P.S.I.

Final Hydrostatic Pressure 1201 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 6/9/81 Test Ticket No. 14882
 Recorder No. 1051 Capacity 4250 Location 2529 Ft.
 Clock No. - Elevation --- Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1239	P.S.I.	5:20P	M
B First Initial Flow Pressure	442	P.S.I.	30	Mins. 30
C First Final Flow Pressure	879	P.S.I.	60	Mins. 60
D Initial Closed-in Pressure	1049	P.S.I.	45	Mins. 45
E Second Initial Flow Pressure	989	P.S.I.	90	Mins. 87
F Second Final Flow Pressure	1036	P.S.I.		
G Final Closed-in Pressure	1046	P.S.I.		
H Final Hydrostatic Mud	1201	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>29</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	442	0	879	0	989	0	1036
P 2 5	540	3	987	5	989	3	1040
P 3 10	591	6	1002	10	989	6	1042
P 4 15	672	9	1013	15	996	9	1043
P 5 20	757	12	1023	20	1004	12	1044
P 6 25	876	15	1027	25	1013	15	1044
P 7 30	879	18	1030	30	1021	18	1044
P 8		21	1033	35	1027	21	1044
P 9		24	1036	40	1033	24	1044
P 10		27	1038	45	1036	27	1044
P 11		30	1040			30	1044
P 12		33	1042			33	1045
P 13		36	1043			36	1045
P 14		39	1044			39	1045
P 15		42	1045			42	1045
P 16		45	1046			45	1046
P 17		48	1047			48	1046
P 18		51	1047			51	1046
P 19		54	1048			54	1046
P 20		57	1048			57	1046
		60	1049			60	1046

WESTERN TESTING CO., INC.

Pressure Data

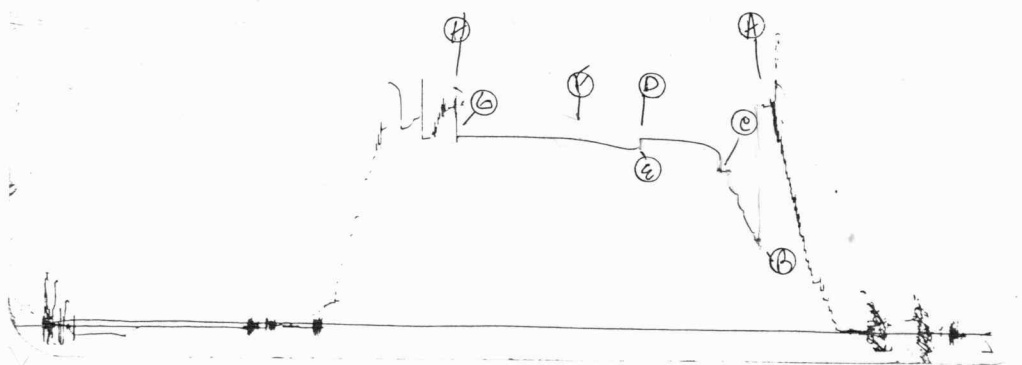
Date 6/9/81 Test Ticket No. 14882
 Recorder No. 1051 Capacity 4250 Location 2529 Ft.
 Clock No. - Elevation --- Well Temperature 118 °F
 Point Pressure Time Given Time Computed
 1 Initial Hydrostatic Mud 1239 P.S.I. Open Tool 5:20P M
 2 First Initial Flow Pressure 442 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 3 First Final Flow Pressure 879 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Mins.
 4 Initial Closed-in Pressure 1049 P.S.I. Second Flow Pressure 45 Mins. 45 Mins.
 5 Second Initial Flow Pressure 989 P.S.I. Final Closed-in Pressure 90 Mins. 87 Mins.
 6 Second Final Flow Pressure 1036 P.S.I.
 7 Final Closed-in Pressure 1046 P.S.I.
 8 Final Hydrostatic Mud 1201 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>29</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1						63	1046
2						66	1046
3						69	1046
4						72	1046
5						75	1046
6						78	1046
7						81	1046
8						84	1046
9						87	1046
10							
11							
12							
13							
14							
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17							
18							
19							
20							

TKT # 14882
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1051



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1239	1239	PSI
(B) First Initial Flow Pressure	452	442	PSI
(C) First Final Flow Pressure	879	879	PSI
(D) Initial Closed-in Pressure	1049	1049	PSI
(E) Second Initial Flow Pressure	985	989	PSI
(F) Second Final Flow Pressure	1038	1036	PSI
(G) Final Closed-in Pressure	1038	1046	PSI
(H) Final Hydrostatic Mud	1207	1201	PSI