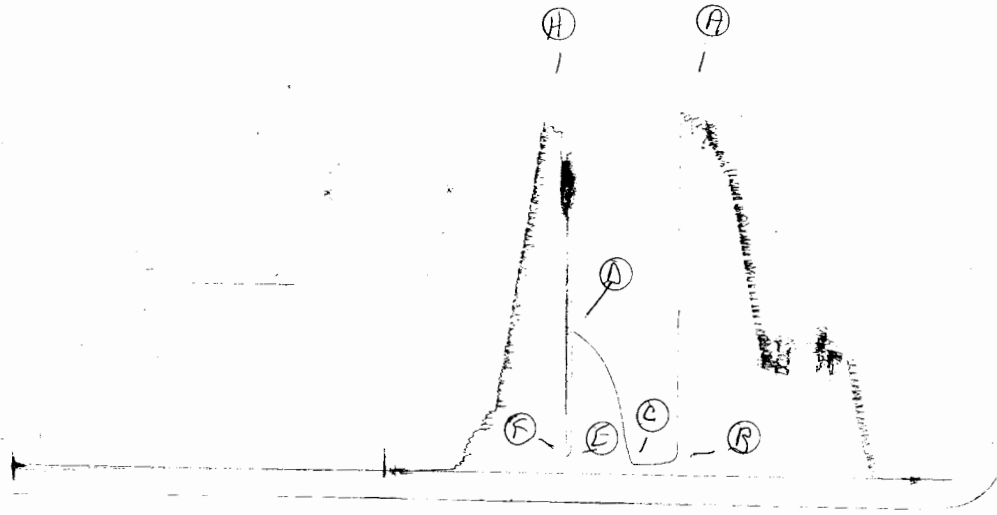


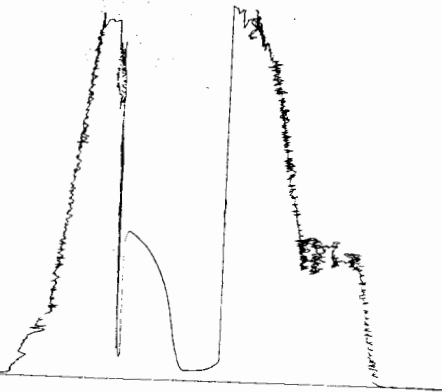
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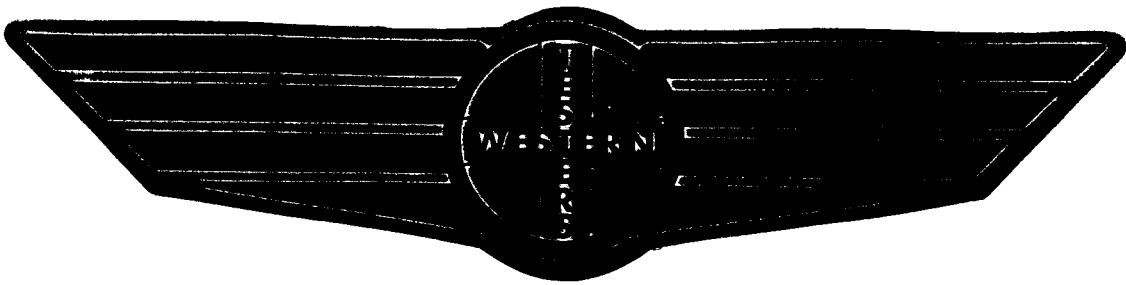
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 12/7/93	TICKET : 20204
CUSTOMER : BILL CHEW, INC.	LEASE : KLEEPER SOUTH
WELL : #1 TEST: 1	GEOLOGIST:
ELEVATION:	FORMATION: SIMPSON/ARBUCKLE
SECTION : 17	TOWNSHIP : 22S
RANGE : 11W COUNTY: STAFFORD	STATE : KS
GAUGE SN#: 13265 RANGE : 3975	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3600.00 ft	TO: 3629.00 ft	TVD: 3629.0 ft
DEPTH OF SELECTIVE ZONE:	TEST TYPE: OIL	
DEPTH OF RECORDERS: 3623.0 ft	3626.0 ft	
TEMPERATURE: 103.0		
DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3570.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 29.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 3595.0 ft	SIZE:	6.630 in
PACKER DEPTH: 3600.0 ft	SIZE:	6.630 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : DUKE RIG 1	
MUD TYPE : CHEMICAL	VISCOSITY : 47.00 cp
WEIGHT : 9.300 ppg	WATER LOSS: 9.600 cc
CHLORIDES : 0 ppm	
JARS-MAKE : WTC	SERIAL NUMBER: 714
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - 4 INCHES INTO BUCKET. FINAL FLOW PERIOD VERY WEAK BLOW - LOST PACKER SEAT - WENT TO BOTTOM OF BUCKET PULLED

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

LOOSE - CAME OUT OF HOLE.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1140.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	35.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	15.9900	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	15.9900	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1780.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	90.00	70.00
INITIAL SHUT-IN	45.00		730.00
FINAL FLOW	5.00	100.00	100.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 1770.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1872.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	70.00	53.00
INITIAL SHUT-IN	54.00		734.00
FINAL FLOW	5.00	111.00	92.00

FINAL HYDROSTATIC PRESSURE: 1792.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 12/7/93	TICKET	: 20204
CUSTOMER	: BILL CHEW, INC.	LEASE	: KLEEPER SOUTH
WELL	: #1	TEST:	1
ELEVATION:		GEOLOGIST:	
SECTION	: 17	FORMATION:	SIMPSON/ARBUCKLE
RANGE	: 11W	TOWNSHIP	: 22S
GAUGE SN#:	13265	STATE	: KS
		CLOCK	: 12
		COUNTY:	STAFFORD
		RANGE	: 3975

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	70.00	70.00
5.00	70.00	0.00
10.00	67.00	-3.00
15.00	60.00	-7.00
20.00	56.00	-4.00
25.00	53.00	-3.00
30.00	53.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	56.00	56.00	0.00
6.00	83.00	27.00	0.00
9.00	169.00	86.00	0.00
12.00	279.00	110.00	0.00
15.00	362.00	83.00	0.00
18.00	434.00	72.00	0.00
21.00	481.00	47.00	0.00
24.00	526.00	45.00	0.00
27.00	562.00	36.00	0.00
30.00	598.00	36.00	0.00
33.00	622.00	24.00	0.00
36.00	648.00	26.00	0.00
39.00	669.00	21.00	0.00
42.00	687.00	18.00	0.00
45.00	703.00	16.00	0.00
48.00	718.00	15.00	0.00
51.00	728.00	10.00	0.00
54.00	734.00	6.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	111.00	111.00
5.00	92.00	-19.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
			No Data Entered



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 20204

P. O. BOX 1599 WICHITA, KANSAS 67201 PHONE (316) 262-5861

Elevation Formation Simpson Pub Eff. Pay Ft.

District Augusta Date 12-7-93 Customer Order No.

COMPANY NAME Bill Chew, Inc

ADDRESS P.O. Box 90

LEASE AND WELL NO. Kleeper South #4 COUNTY Stefford STATE KS Sec. 17 Twp 22 Rge 11 W

Mail Invoice To Co. Name #1 Kleepee South Address No. Copies Requested 1

Mail Charts To Address No. Copies Requested 5

Formation Test No. DST#1 Interval Tested From 3600 ft. to 3629 ft. Total Depth 3629 ft.

Packer Depth 3595 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3600 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3623 ft. Recorder Number 13265 Cap. 3985

Bottom Recorder Depth (Outside) 3626 ft. Recorder Number 13759 Cap. 3900

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

Drilling Contractor Duke Rig 1 Drill Collar Length - I. D. - in.

Mud Type Oil Viscosity 47 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 9.6 cc. Drill Pipe Length 3570 I. D. 3.8 in.

Chlorides - P.P.M. Test Tool Length 30 ft. Tool Size 2200 in.

Jars: Make WTC Serial Number 714 Anchor Length 29 ft. Size 57200 in.

Did Well Flow? - Reversed Out. Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Wood block 4" into bucket on (EFP) Very weak below last packer seat went to bottom of bucket pull loose came out of hole

Recovered 1140 ft. of Drilling mud

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Chlorides - P.P.M. Sample Jars used - Remarks: low packer water on final flow

Time On Location 6:00 A.M. Time Pick Up Tool 9:00 A.M. Time Off Location - A.M.

Time Set Packer(s) 11:00 A.M. Time Started Off Bottom 12:20 P.M. Maximum Temperature 103°F

Initial Hydrostatic Pressure (A) 1780 P.S.I.

Initial Flow Period Minutes 30 (B) 90 P.S.I. to (C) 70 P.S.I.

Initial Closed In Period Minutes 45 (D) 730 P.S.I.

Final Flow Period Minutes 5 (E) 100 P.S.I. to (F) 100 P.S.I.

Final Closed In Period Minutes 60 (G) - P.S.I.

Final Hydrostatic Pressure (H) 1770 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

Table with 2 columns: Item Name and Price. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

WESTERN TESTING CO., INC.

Pressure Data

Date 11-7-92 Test Ticket No. JW04
 Recorder No. BHAS Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1872</u> P.S.I.		M
B First Initial Flow Pressure	_____ P.S.I.	_____ Mins.	_____ Mins.
C First Final Flow Pressure	_____ P.S.I.	_____ Mins.	_____ Mins.
D Initial Closed-in Pressure	_____ P.S.I.	_____ Mins.	_____ Mins.
E Second Initial Flow Pressure	_____ P.S.I.	_____ Mins.	_____ Mins.
F Second Final Flow Pressure	_____ P.S.I.	_____ Mins.	_____ Mins.
G Final Closed-in Pressure	_____ P.S.I.		
H Final Hydrostatic Mud	<u>1792</u> P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown: _____ Inc.	of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc.	of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc.	of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc.	of _____ mins. and a final inc. of _____ Min.
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1 0	<u>70</u>	0	<u>53</u>	0	<u>111</u>	0		
P 2 5	<u>70</u>	3	<u>56</u>	3	<u>92</u>	3		
P 3 10	<u>67</u>	6	<u>53</u>	6		6		
P 4 15	<u>60</u>	9	<u>169</u>	9		9		
P 5 20	<u>56</u>	12	<u>279</u>	12		12		
P 6 25	<u>53</u>	15	<u>362</u>	15		15		
P 7 30	<u>53</u>	18	<u>434</u>	18		18		
P 8 35		21	<u>481</u>	21		21		
P 9 40		24	<u>526</u>	24		24		
P10 45		27	<u>562</u>	27		27		
P11 50		30	<u>598</u>	30		30		
P12 55		33	<u>622</u>	33		33		
P13 60		36	<u>648</u>	36		36		
P14 65		39	<u>669</u>	39		39		
P15 70		42	<u>687</u>	42		42		
P16 75		45	<u>703</u>	45		45		
P17 80		48	<u>718</u>	48		48		
P18 85		51	<u>738</u>	51		51		
P19 90		54	<u>754</u>	54		54		
P20 95		57		57		57		
100		60		60		60		