



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 16585

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

Elevation 17796L Formation Simpson & Arbuckle Eff. Pay — Ft.

District GT Bend Date 9-14-90 Customer Order No. —

COMPANY NAME H-30 Drilling, Inc.

ADDRESS 251 N. WATER, SUITE 10 WICHITA, KS. 67202

LEASE AND WELL NO. Hammeke #4-7 COUNTY STAFFORD STATE Ks Sec. 7 Twp. 22^s Rge. 11^w

Mail Invoice To Co. Name SAME Address — No. Copies Requested Reg

Mail Charts To Hammeke #4-7 Address — No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 3520 ft. to 3595 ft. Total Depth 3595 ft.

Packer Depth 3515 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3520 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3523 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 3526 ft. Recorder Number 13268 Cap. 4225

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

Drilling Contractor H-30 rig #7 Drill Collar Length — I. D. — in.

Mud Type CHEMICAL Viscosity 44 Weight Pipe Length — I. D. — in.

Weight 9.3 Water Loss 11.5 cc. Drill Pipe Length 3500 I. D. 3.8 in.

Chlorides 9800 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 75 ft. Size 5 1/2 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 X H in.

Blow: IF-WEAR Blow throughout 1/2" To 1" Blow

FF-WEAR building to a good blow 1" To 7" Blow

Recovered 200 ft. of GAS IN PIPE

Recovered 40 ft. of OIL + GAS cut mud 9% oil 11% gas 80% mud

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Chlorides — P.P.M. Sample Jars used 1 Remarks: 3.6 oil

3.2 WTR

Time On Location 9:00 A.M. Time Pick Up Tool 10:45 A.M. Time Off Location — A.M.

Time Set Packer(s) 12:45 P.M. Time Started Off Bottom 3:45 P.M. Maximum Temperature 111 °

Initial Hydrostatic Pressure 1765 P.S.I.

Initial Flow Period 30 Minutes (A) 31 P.S.I. to (C) 41 P.S.I.

Initial Closed In Period 45 Minutes (D) 197 P.S.I.

Final Flow Period 60 Minutes (E) 31 P.S.I. to (F) 31 P.S.I.

Final Closed In Period 45 Minutes (G) 62 P.S.I.

Final Hydrostatic Pressure 1744 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 Ray Schwagel 1925 THANK YOU

FIELD INVOICE

Open Hole Test	<input checked="" type="checkbox"/>	550
Misrun	<input type="checkbox"/>	\$
Straddle Test	<input type="checkbox"/>	\$
Jars	<input type="checkbox"/>	\$
Selective Zone	<input type="checkbox"/>	\$
Safety Joint	<input type="checkbox"/>	\$
Standby	<input type="checkbox"/>	\$
Evaluation	<input type="checkbox"/>	\$
Extra Packer	<input type="checkbox"/>	\$
Circ. Sub.	<input type="checkbox"/>	\$
Mileage	<input type="checkbox"/>	\$
Fluid Sampler	<input type="checkbox"/>	\$
Extra Charts	<input type="checkbox"/>	\$
Insurance	<input type="checkbox"/>	\$
Telecopier	<input type="checkbox"/>	\$
TOTAL	<input checked="" type="checkbox"/>	

WESTERN TESTING CO., INC.

Pressure Data

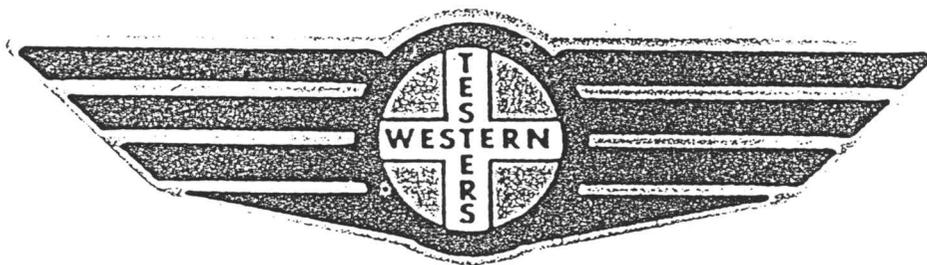
Date 9-14-90 Recorder No. 10270 Capacity 4/50 Test Ticket No. 16585 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 111 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1775</u> P.S.I.		<u>12:45A</u> M	
B First Initial Flow Pressure	<u>37</u> P.S.I.	First Flow Pressure	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>67</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins	<u>44</u> Mins.
D Initial Closed-in Pressure	<u>202</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>37</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins	<u>45</u> Mins.
F Second Final Flow Pressure	<u>37</u> P.S.I.			
G Final Closed-in Pressure	<u>66</u> P.S.I.			
H Final Hydrostatic Mud	<u>1732</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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	<u>32</u>	0	<u>67</u>	0	<u>57</u>	0	<u>37</u>
P 2 5	<u>37</u>	3	<u>37</u>	5		3	<u>37</u>
P 3 10	<u>37</u>	6	<u>83</u>	10		6	<u>38</u>
P 4 15	<u>35</u>	9	<u>92</u>	15		9	<u>40</u>
P 5 20	<u>42</u>	12	<u>103</u>	20		12	<u>42</u>
P 6 25	<u>51</u>	15	<u>113</u>	25		15	<u>43</u>
P 7 30	<u>67</u>	18	<u>121</u>	30		18	<u>45</u>
P 8 35		21	<u>128</u>	35		21	<u>47</u>
P 9 40		24	<u>140</u>	40		24	<u>49</u>
P10 45		27	<u>150</u>	45		27	<u>50</u>
P11 50		30	<u>162</u>	50		30	<u>53</u>
P12 55		33	<u>172</u>	55		33	<u>55</u>
P13 60		36	<u>182</u>	60	<u>37</u>	36	<u>57</u>
P14 65		39	<u>192</u>	65		39	<u>59</u>
P15 70		42	<u>202</u>	70		42	<u>63</u>
P16 75		45		75		45	<u>66</u>
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY H-30 DRILLING INC.

LEASE & WELL NO. HAMMEKE #4-7

SEC. 7

TWP. 22S RGE. 11W

TEST NO. 1

DATE 9/14/90

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 9-14-90 TICKET : 16585
CUSTOMER : H-30 DRILLING INC. LEASE : HAMMEKE
WELL : #4-7 TEST: 1 GEOLOGIST : JEFF BURK
ELEVATION : 1779 GL FORMATION : SIMPS.& ARB.
SECTION : 7 TOWNSHIP : 22S
RANGE : 11W COUNTY : STAFFORD STATE : KANSAS
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3520 TO : 3595 TOTAL DEPTH : 3595
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3515 SIZE : 6.63
PACKER DEPTH : 3520 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : H-30 RIG #7
MUD TYPE : CHEMICAL VISCOSITY : 44
WEIGHT : 9.3 WATER LOSS (CC) : 11.5
CHLORIDES (PPM) : 9800
JARS-MAKE : SERIAL NUMBER :
DID WELL FLOW ? : REVERSED OUT ? :

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3500 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 75 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD WEAK BLOW THROUGHOUT.
BLOW COMMENT #2 : 1/2 INCH TO 1 INCH BLOW.
BLOW COMMENT #3 : FINAL FLOW PERIOD WEAK BLOW BUILDING TO
BLOW COMMENT #4 : A GOOD BLOW. 1 INCH TO 7 INCH BLOW.

RECOVERED : 40 FT OF: OIL & GAS-CUT MUD
RECOVERED : 0 FT OF: 9%OIL 11%GAS 80%MUD

Total Barrels Fluid = 0.56
Total Fluid Prod Rate = 8.98 BFPD
Indicated Oil Rate = 0.81 BOPD
Indicated Wtr Rate = 0.72 BWPD
Corrected Oil Rate = 2.99 BOPD
Corrected Wtr Rate = 2.66 BWPD

REMARK 1 :
REMARK 2 : 200 FT. GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 12:45 A.M. TIME STARTED OFF BOTTOM : 3:45 A.M.
WELL TEMPERATURE : 111
INITIAL HYDROSTATIC PRESSURE (A) 1775
INITIAL FLOW PERIOD MIN: 30 (B) 32 PSI TO (C) : 67
INITIAL CLOSED IN PERIOD MIN: 42 (D) 202
FINAL FLOW PERIOD MIN: 60 (E) 37 PSI TO (F) : 37
FINAL CLOSED IN PERIOD MIN: 45 (G) 66
FINAL HYDROSTATIC PRESSURE (H) 1732

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : H-30 DRILLING INC.
RIG : STAFFORD-KANSAS
FIELD : HAMMEKE
WELL : #4-7
DATE : 9-14-90
GAUGE NO : 10270

OPERATIONAL COMMENTS

200 FT. GAS ABOVE FLUID.

COMPANY : H-30 DRILLING INC.
WELL : #4-7
GAUGE # : 10270
DATE : 14/ 9/90

FIELD : HAMMEKE
JOB # : 16585
DEPTH : 3595
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	12:45: 0	0.000	32.000	111.00	0.000
3	12:49:59	0.083	32.000	111.00	0.000
4	12:55: 0	0.167	32.000	111.00	0.000
5	13: 0: 0	0.250	35.000	111.00	3.000
6	13: 4:59	0.333	42.000	111.00	7.000
7	13:10: 0	0.417	56.000	111.00	14.000
8	13:15: 0	0.500	67.000	111.00	11.000
INITIAL SHUT-IN PERIOD					
9	13:18: 0	0.550	75.000	111.00	8.000
10	13:21: 0	0.600	83.000	111.00	8.000
11	13:24: 0	0.650	92.000	111.00	9.000
12	13:27: 0	0.700	103.000	111.00	11.000
13	13:30: 0	0.750	113.000	111.00	10.000
14	13:33: 0	0.800	121.000	111.00	8.000
15	13:36: 0	0.850	128.000	111.00	7.000
16	13:39: 0	0.900	140.000	111.00	12.000
17	13:42: 0	0.950	150.000	111.00	10.000
18	13:45: 0	1.000	162.000	111.00	12.000
19	13:48: 0	1.050	172.000	111.00	10.000
20	13:51: 0	1.100	182.000	111.00	10.000
21	13:54: 0	1.150	192.000	111.00	10.000
22	13:57: 0	1.200	202.000	111.00	10.000
FINAL FLOW PERIOD					
23	13:58: 0	1.217	37.000	111.00	-165.000
24	14: 1:59	1.283	37.000	111.00	0.000
25	14: 7: 0	1.367	37.000	111.00	0.000
26	14:12: 0	1.450	37.000	111.00	0.000
27	14:16:59	1.533	37.000	111.00	0.000
28	14:22: 0	1.617	37.000	111.00	0.000
29	14:27: 0	1.700	37.000	111.00	0.000
30	14:31:59	1.783	37.000	111.00	0.000
31	14:37: 0	1.867	37.000	111.00	0.000
32	14:42: 0	1.950	37.000	111.00	0.000
33	14:46:59	2.033	37.000	111.00	0.000
34	14:52: 0	2.117	37.000	111.00	0.000
35	14:57: 0	2.200	37.000	111.00	0.000
FINAL SHUT-IN PERIOD					
36	15: 0: 0	2.250	37.000	111.00	0.000
37	15: 3: 0	2.300	38.000	111.00	1.000
38	15: 6: 0	2.350	40.000	111.00	2.000
39	15: 9: 0	2.400	42.000	111.00	2.000
40	15:12: 0	2.450	43.000	111.00	1.000
41	15:15: 0	2.500	45.000	111.00	2.000
42	15:18: 0	2.550	47.000	111.00	2.000
43	15:21: 0	2.600	49.000	111.00	2.000
44	15:24: 0	2.650	51.000	111.00	2.000
45	15:27: 0	2.700	53.000	111.00	2.000
46	15:30: 0	2.750	55.000	111.00	2.000
47	15:33: 0	2.800	57.000	111.00	2.000
48	15:36: 0	2.850	59.000	111.00	2.000

COMPANY : H-30 DRILLING INC.
WELL : #4-7
GAUGE # : 10270
DATE : 14/ 9/90

FIELD : HAMMEKE
JOB # : 16585
DEPTH : 3595
TEST :

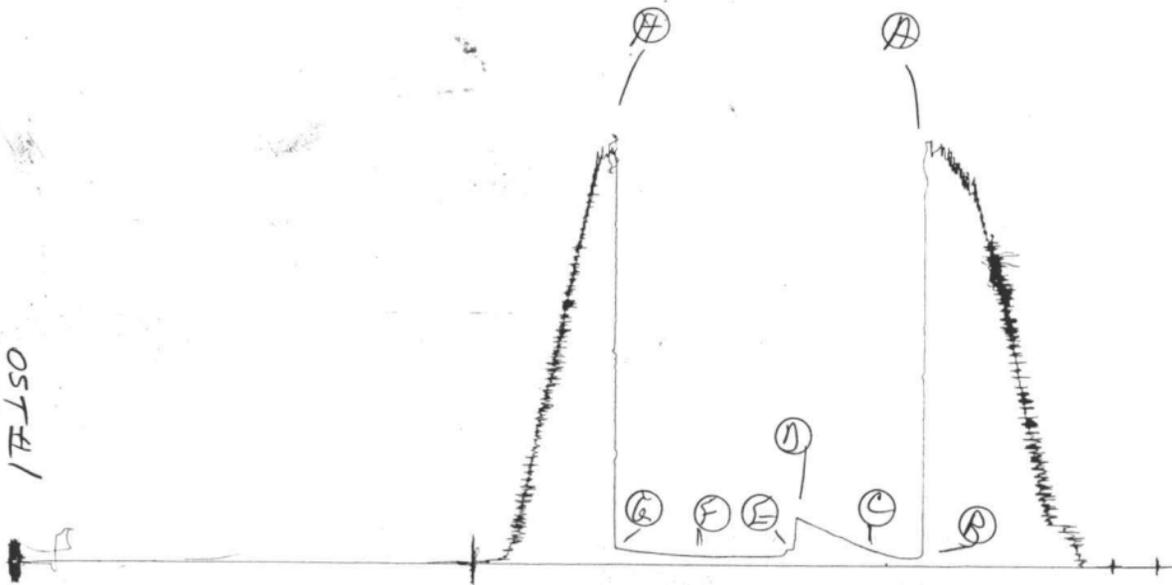
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	15:39: 0	2.900	63.000	111.00	4.000
50	15:42: 0	2.950	66.000	111.00	3.000

WESTERN TESTING CO. INC.

KT 16585

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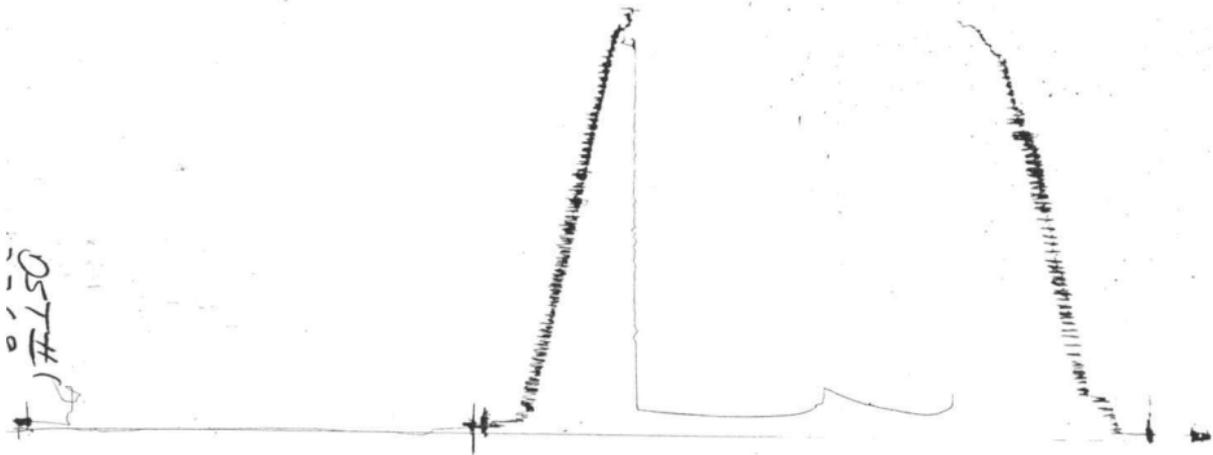
OSTAL



KT 16585

0

OST# 150





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 16586

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

Elevation 1779 GL Formation Arbuckle Eff. Pay Ft.

District 11 GT Bend Date 9-15-90 Customer Order No.

COMPANY NAME Hood H-30 Drilling, Inc.

ADDRESS 251 N. WATER, Suite 10 WICHITA, KS 67202

LEASE AND WELL NO. Hammeke #4-7 COUNTY STAFFORD STATE KS Sec. 7 Twp 22 Rge 11W

Mail Invoice To Co. Name SAME Address No. Copies Requested Reg

Mail Charts To Hammeke #4-7 SAME Address No. Copies Requested Reg

Formation Test No. 2 Interval Tested From 3595 ft. to 3605 ft. Total Depth 3605 ft.

Packer Depth 3590 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

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

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3598 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 3601 ft. Recorder Number 13268 Cap. 4225

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

Drilling Contractor H-30 Rig #7 Drill Collar Length - I. D. - in.

Mud Type Chemical Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9 Water Loss 12.4 cc. Drill Pipe Length 3575 I. D. 3.8 in.

Chlorides 10200 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 10 ft. Size 5 1/2 in.

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

Main Hole Size 7/8 in. Tool Joint Size 4 1/2 X 11 in.

Blow: IF - WEAR BLOW THROUGHOUT 1/2" TO 3" BLOW
FF -

Recovered 105 ft. of GAS IN PIPE

Recovered 15 ft. of HEAVY OIL cut mud 15% oil 85% mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 1 Remarks:

2.3 OIL
1.3 WTR

Time On Location 9:45 A.M. Time Pick Up Tool 10:45 A.M. Time Off Location A.M.

Time Set Packer(s) 12:00 P.M. Time Started Off Bottom 3:00 P.M. Maximum Temperature 111°

Initial Hydrostatic Pressure (A) 1765 P.S.I.

Initial Flow Period Minutes 30 (B) 20 P.S.I. to (C) 20 P.S.I.

Initial Closed In Period Minutes 45 (D) 83 P.S.I.

Final Flow Period Minutes 60 (E) 20 P.S.I. to (F) 20 P.S.I.

Final Closed In Period Minutes 45 (G) 52 P.S.I.

Final Hydrostatic Pressure (H) 1755 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 of Customer or his authorized representative

Western Representative Ray Schwager 1925 Thank you

FIELD INVOICE

- Open Hole Test 550
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL

WESTERN TESTING CO., INC.

Pressure Data

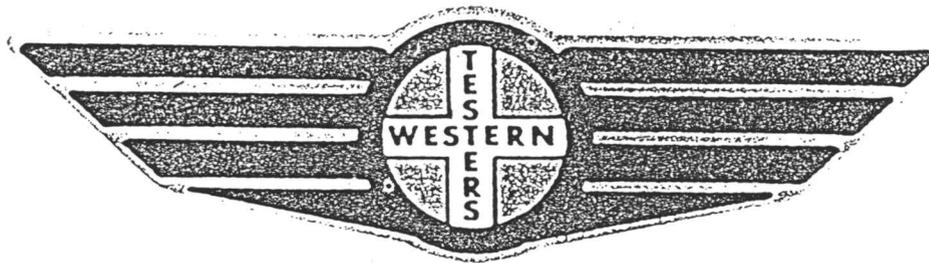
Date 9-15-50 Recorder No. 10270 Capacity 4150 Test Ticket No. 16586 Location _____ Ft. Clock No. _____ Elevation _____ Well Temperature 111 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1788</u> P.S.I.	<u>12:00</u> P	M
B First Initial Flow Pressure	<u>24</u> P.S.I.	<u>24</u> Mins	<u>24</u> Mins
C First Final Flow Pressure	<u>27</u> P.S.I.	<u>45</u> Mins	<u>45</u> Mins
D Initial Closed-in Pressure	<u>76</u> P.S.I.	<u>60</u> Mins	<u>60</u> Mins
E Second Initial Flow Pressure	<u>25</u> P.S.I.	<u>45</u> Mins	<u>45</u> Mins
F Second Final Flow Pressure	<u>29</u> P.S.I.		
G Final Closed-in Pressure	<u>52</u> P.S.I.		
H Final Hydrostatic Mud	<u>1761</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ 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	<u>24</u>	0	<u>27</u>	0	<u>25</u>	0	<u>29</u>
P 2 5		3	<u>30</u>	5		3	<u>32</u>
P 3 10		6	<u>32</u>	10		6	<u>34</u>
P 4 15		9	<u>38</u>	15		9	<u>35</u>
P 5 20	<u>24</u>	12	<u>44</u>	20		12	<u>37</u>
P 6 25	<u>26</u>	15	<u>46</u>	25		15	<u>39</u>
P 7 30	<u>27</u>	18	<u>50</u>	30	<u>25</u>	18	<u>41</u>
P 8 35		21	<u>52</u>	35	<u>25</u>	21	<u>43</u>
P 9 40		24	<u>57</u>	40	<u>26</u>	24	<u>45</u>
P10 45		27	<u>59</u>	45	<u>27</u>	27	<u>47</u>
P11 50		30	<u>60</u>	50	<u>28</u>	30	<u>48</u>
P12 55		33	<u>63</u>	55	<u>29</u>	33	<u>49</u>
P13 60		36	<u>66</u>	60	<u>29</u>	36	<u>50</u>
P14 65		39	<u>68</u>	65		39	<u>51</u>
P15 70		42	<u>73</u>	70		42	<u>52</u>
P16 75		45	<u>76</u>	75		45	<u>52</u>
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY H-30 DRILLING, INC. LEASE & WELL NO. HANMEKE #4-7 SEC. 7 TWP. 22S RGE. 11W TEST NO. 2 DATE 9/15/90

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 9-15-90 TICKET : 16586
CUSTOMER : H-30 DRILLING INC. LEASE : HAMMEKE
WELL : #4-7 TEST: 2 GEOLOGIST : JEFF BURK
ELEVATION : 1779 GL FORMATION : ARBUCKLE
SECTION : 7 TOWNSHIP : 22S
RANGE : 11W COUNTY : STAFFORD STATE : KANSAS
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3595 TO : 3605 TOTAL DEPTH : 3605
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3590 SIZE : 6.63
PACKER DEPTH : 3595 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : H-30 RIG #7
MUD TYPE : CHEMICAL VISCOSITY : 42
WEIGHT : 9.0 WATER LOSS (CC) : 12.4
CHLORIDES (PPM) : 10200
JARS-MAKE : SERIAL NUMBER :
DID WELL FLOW ? : REVERSED OUT ? :

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3575 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 10 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD WEAK BLOW THROUGHOUT.
BLOW COMMENT #2 : 1/2 INCH TO 3 INCH BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 15 FT OF: HEAVY OIL-CUT MUD
RECOVERED : 0 FT OF: 15%OIL 85%MUD

Total Barrels Fluid = 0.21
Total Fluid Prod Rate = 3.37 BFPD
Indicated Oil Rate = 0.52 BOPD
Indicated Wtr Rate = 0.29 BWPD
Corrected Oil Rate = 2.99 BOPD
Corrected Wtr Rate = 1.69 BWPD

REMARK 1 :
REMARK 2 : 105 FT. GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 12:00 P.M. TIME STARTED OFF BOTTOM : 3:00 P.M.
WELL TEMPERATURE : 111
INITIAL HYDROSTATIC PRESSURE (A) 1788
INITIAL FLOW PERIOD MIN: 30 (B) 24 PSI TO (C) : 27
INITIAL CLOSED IN PERIOD MIN: 45 (D) 76
FINAL FLOW PERIOD MIN: 60 (E) 25 PSI TO (F) : 29
FINAL CLOSED IN PERIOD MIN: 45 (G) 52
FINAL HYDROSTATIC PRESSURE (H) 1761

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : H-30 DRILLING INC.
RIG : STAFFORD-KANSAS
FIELD : HAMMEKE
WELL : #4-7
DATE : 9-15-90
GAUGE NO : 10270

OPERATIONAL COMMENTS

105 FT. GAS ABOVE FLUID.

COMPANY : H-30 DRILLING INC.
 WELL : #4-7
 GAUGE # : 10270
 DATE : 15/ 9/90

FIELD : HAMMEKE
 JOB # : 16586
 DEPTH : 3605
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	12: 0: 0	0.000	24.000	111.00	0.000
3	12: 4:59	0.083	24.000	111.00	0.000
4	12:10: 0	0.167	24.000	111.00	0.000
5	12:15: 0	0.250	24.000	111.00	0.000
6	12:19:59	0.333	24.000	111.00	0.000
7	12:25: 0	0.417	26.000	111.00	2.000
8	12:30: 0	0.500	27.000	111.00	1.000
INITIAL SHUT-IN PERIOD					
9	12:33: 0	0.550	30.000	111.00	3.000
10	12:36: 0	0.600	32.000	111.00	2.000
11	12:39: 0	0.650	38.000	111.00	6.000
12	12:42: 0	0.700	42.000	111.00	4.000
13	12:45: 0	0.750	46.000	111.00	4.000
14	12:48: 0	0.800	50.000	111.00	4.000
15	12:51: 0	0.850	52.000	111.00	2.000
16	12:54: 0	0.900	57.000	111.00	5.000
17	12:57: 0	0.950	59.000	111.00	2.000
18	13: 0: 0	1.000	60.000	111.00	1.000
19	13: 2:59	1.050	63.000	111.00	3.000
20	13: 6: 0	1.100	66.000	111.00	3.000
21	13: 9: 0	1.150	68.000	111.00	2.000
22	13:12: 0	1.200	73.000	111.00	5.000
23	13:15: 0	1.250	76.000	111.00	3.000
FINAL FLOW PERIOD					
24	13:16: 0	1.267	25.000	111.00	-51.000
25	13:19:59	1.333	25.000	111.00	0.000
26	13:25: 0	1.417	25.000	111.00	0.000
27	13:30: 0	1.500	25.000	111.00	0.000
28	13:34:59	1.583	25.000	111.00	0.000
29	13:40: 0	1.667	25.000	111.00	0.000
30	13:45: 0	1.750	25.000	111.00	0.000
31	13:49:59	1.833	25.000	111.00	0.000
32	13:55: 0	1.917	26.000	111.00	1.000
33	14: 0: 0	2.000	27.000	111.00	1.000
34	14: 4:59	2.083	28.000	111.00	1.000
35	14:10: 0	2.167	29.000	111.00	1.000
36	14:15: 0	2.250	29.000	111.00	0.000
FINAL SHUT-IN PERIOD					
37	14:18: 0	2.300	32.000	111.00	3.000
38	14:21: 0	2.350	34.000	111.00	2.000
39	14:24: 0	2.400	35.000	111.00	1.000
40	14:27: 0	2.450	37.000	111.00	2.000
41	14:30: 0	2.500	39.000	111.00	2.000
42	14:33: 0	2.550	41.000	111.00	2.000
43	14:36: 0	2.600	43.000	111.00	2.000
44	14:39: 0	2.650	45.000	111.00	2.000
45	14:42: 0	2.700	47.000	111.00	2.000
46	14:45: 0	2.750	48.000	111.00	1.000
47	14:48: 0	2.800	49.000	111.00	1.000
48	14:51: 0	2.850	50.000	111.00	1.000

COMPANY : H-30 DRILLING INC.
WELL : #4-7
GAUGE # : 10270
DATE : 15/ 9/90

FIELD : HAMMEKE
JOB # : 16586
DEPTH : 3605
TEST :

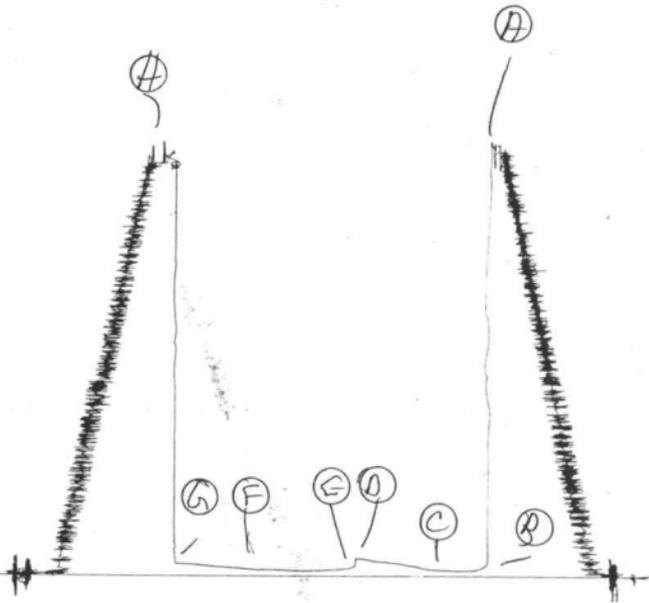
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	14:54: 0	2.900	51.000	111.00	1.000
50	14:57: 0	2.950	52.000	111.00	1.000
51	15: 0: 0	3.000	52.000	111.00	0.000

WESTERN TESTING CO. INC.

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